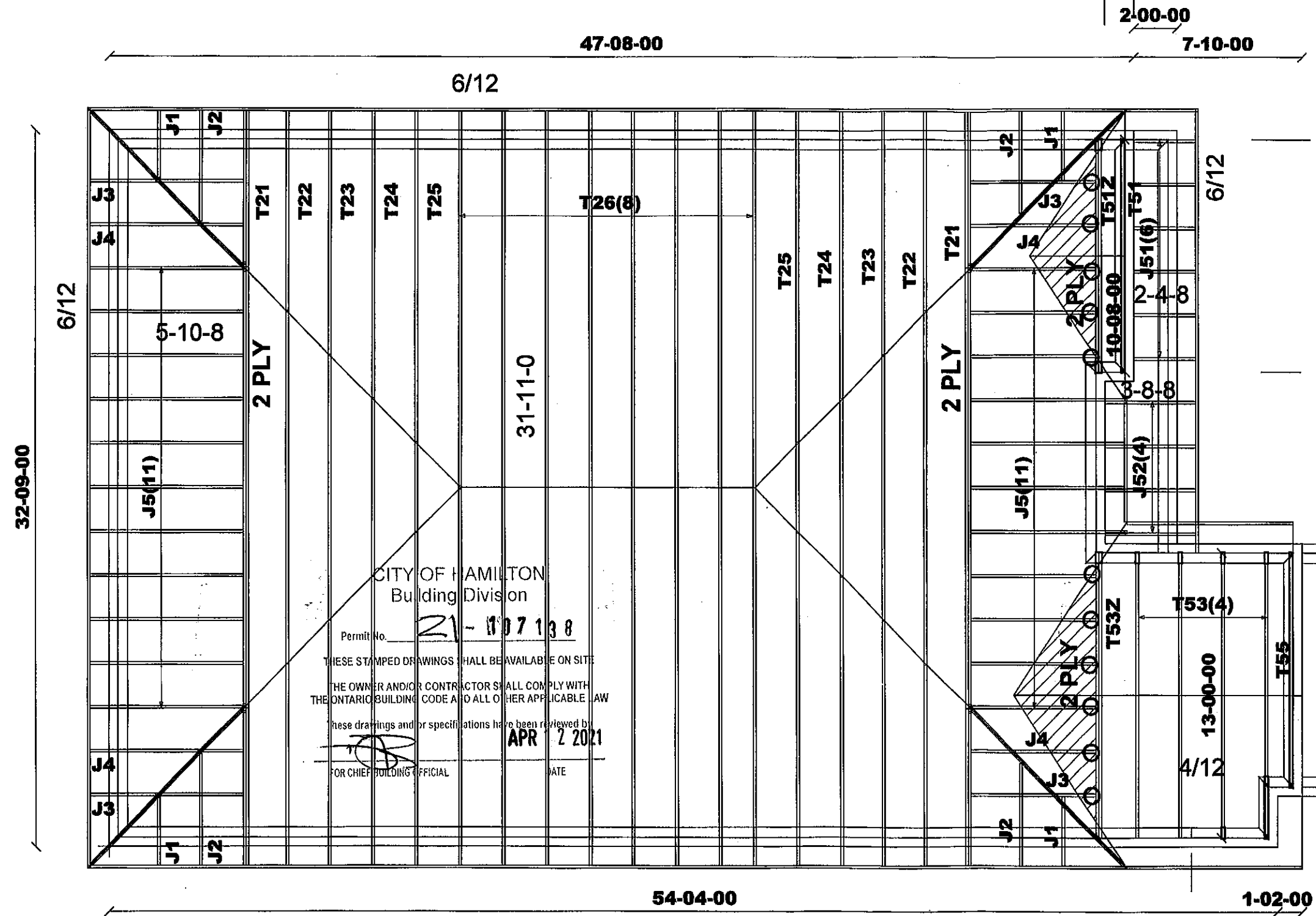




ALL CONV. FRAMING TO CONFORM WITH PART 9 OF O.B.C.2012 (2019 AMENDMENT) ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2X4SPF @ 24"O.C. WITH A 2X4 VERT. POST TO THE TRUSS UNDER NEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6" TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6"

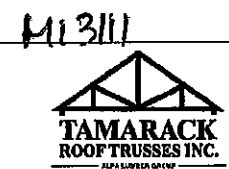
2-04-00
11-06-00
7-05-00
18-11-00
11-06-00
7-10-00
2-00-00

ASPHALT SHINGLES
12" FINISHED OH.
R.T.M.C.
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD

HARDWARE:
LUS24 - (O)

DENOTES
CONV.
FRAMING

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
(2019 AMENDMENT)
DESIGN LOADS:
SNOW LOAD 25.6 PSF
TC DEAD 6 PSF
BC LIVE 0 PSF
BC DEAD 7.4 PSF



Job Track: 51225	Builder / Location: GREEN PARK HOMES / WATERDOWN	Model / Elevation: VALLEYCREEK 5/3	Mitek ver 8.3.1.215
Plan Log: 202410	Project: RUSSELL GARDENS PH.3	LOT 305	
Layout ID: 408189	Date: 2020-04-20	Sales: Mario DiCano	Designer: AC/JG
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DELIVERY SHIPLIST



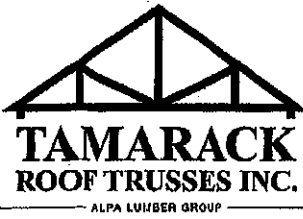
Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 5
 Lot #: 305
 Elevation: 3

Job Track: 51225
 PlanLog: 202410
 Layout ID: 408189
 Ref #
 Page: 1 of 2
 Date: 04-20-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2 2-ply	T21 Hip Girder	6 / 12	31-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	570.2 352.00		
	2	T22 Hip	6 / 12	31-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	259.03 161.67		
	2	T23 Hip	6 / 12	31-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	258.25 161.33		
	2	T24 Hip	6 / 12	31-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	271.21 166.33		
	2	T25 Hip	6 / 12	31-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	262.57 165.00		
	8	T26 Hip	6 / 12	31-11-00	9-01-12	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	1033.89 646.67		
	1	T51 Common	4 / 12	10-08-00	2-08-08	2 x 4		11-03 11-03	35.98 23.17		
	1 2-ply	T51Z Common Girder	4 / 12	10-08-00	2-08-08	2 x 4		11-03 11-03	71.96 46.33		
	4	T53 Common	4 / 12	13-00-00	3-01-03	2 x 4		11-03 11-03	181.41 117.33		
	1 2-ply	T53Z Common Girder	4 / 12	13-00-00	3-01-03	2 x 4		11-03 11-03	90.7 58.67		
	1	T55 Common	4 / 12	10-08-00	3-01-03	2 x 4		11-03 1-08-08	37.95 24.83		
	4	J1 Jack-Open	6 / 12	1-04-07	1-10-04	2 x 4	1-03-08 6-01	1-02-00 1-10-04	25.96 18.67		
	4	J2 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	38.28 24.00		
	4	J3 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	46.33 29.33		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: VALLEYCREEK 5
 Lot #: 305
 Elevation: 3

Job Track: 51225
 PlanLog: 202410
 Layout ID: 408189
 Ref #
 Page: 2 of 2
 Date: 04-20-2020
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	4	J4 Jack-Open	6/12	3-10-15	3-01-08	2x4	1-03-08 1-11-09	1-02-00 3-01-08	57.17 34.67		
	22	J5 Jack-Open	6/12	5-10-08	4-01-04	2x4	1-03-08	1-02-00 4-01-04	369.48 234.67		
	6	J51 GABLE	6/12	2-04-08	2-01-15	2x4	1-03-08	4-03 1-01-11	45.29 32.00		
	4	J52 Jack-Open	6/12	3-08-08	2-09-15	2x4	1-03-08	4-03 1-09-11	43.08 28.67		

TOTAL # TRUSS= 78

TOTAL BFT OF ALL TRUSSES= 2325.34

BFT.

TOTAL WEIGHT OF ALL TRSSES 3698.75 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
11	Hardware	LUS24	

TOTAL NUMBER OF
ITEMS=

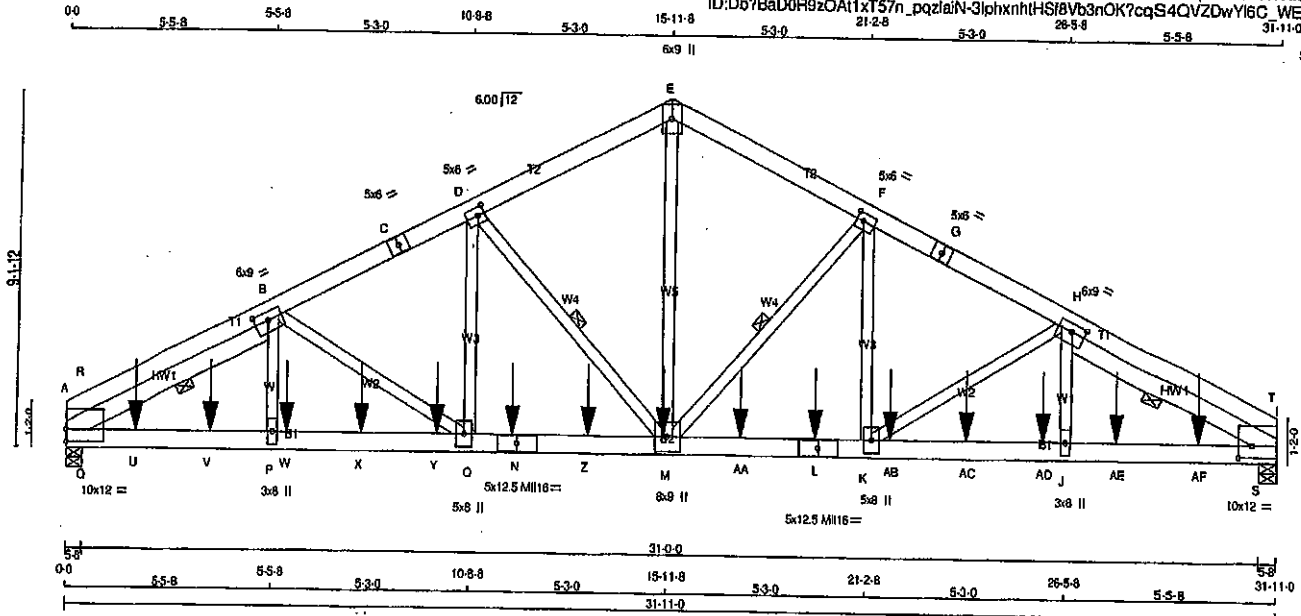
11

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408187	T1	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Matek Industries, Inc. Fri Apr 17 08:17:44 2020 Page 1
ID:Db7BaD0R9z0A1xT57n_pqziaN-3lphxnhHS8Vb3nOK7cqS4QVZDwY16C_WEVNSzPtyL
21-2-8 53-0 26-5-8 31-11-0

Scale = 1:54.8



TOTAL WEIGHT = 2 X 203 = 406 lb

LUMBER	SIZE	DESCR.
N. L. G. A. RULES		
CHORDS		
A - C	2x6 DRY	No.2
C - E	2x6 DRY	No.2
E - G	2x6 DRY	No.2
G - I	2x6 DRY	No.2
A - N	2x6 DRY	2100F 1.8E
N - L	2x6 DRY	2100F 1.8E
L - I	2x6 DRY	2100F 1.8E

REINFORCING MEMBERS	SIZE	DESCR.
HW1	2x6 DRY	No.2
HW2	2x6 DRY	No.2
ALL WEBS	2x4 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		
A - C	2	12
C - E	2	12
E - G	2	12
G - I	2	12
BOTTOM CHORDS: (0.122'X3') SPIRAL NAILS		
A - N	2	12
N - L	2	12
L - I	2	12
WEBS: (0.122'X3') SPIRAL NAILS		
M - E	1	6
B - P	1	6
2x4	1	6
2x6	2	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 (tablets in inches)	PLATES	W	LEN	Y	X
JT TYPE					
A TMBMW-1	MT20	10.0	12.0	3.75	
B TMBMW-1	MT20	8.0	9.0	2.50	4.25
C TS-1	MT20	5.0	6.0		
D TMBMW-1	MT20	5.0	6.0	2.50	2.25
E TTW+p	MT20	6.0	9.0		
F TMBMW-1	MT20	5.0	6.0	2.50	2.25
G TS-1	MT20	5.0	6.0		
H TMBMW-1	MT20	8.0	9.0	2.50	4.25
I TMBMW-1	MT20	10.0	12.0	3.75	4.50
J BMMW-w	MT20	3.0	6.0		
K BMMW-w	MT20	5.0	8.0		
L BS-1	MT18	5.0	12.5		
M BMMW-w	MT20	8.0	9.0		
N BS-1	MT18	5.0	12.5		
O BMMW-w	MT20	5.0	8.0		
P BMMW-w	MT20	3.0	6.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
A	9724	0	0	5-8
I	9642	0	0	5-8

UNFACTORED REACTIONS								
	1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
A	6864	4578 0	0 0	0 0	0 0	2286 0	0 0	
I	6805	4539 0	0 0	0 0	0 0	2267 0	0 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.05 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 F-M, D-M, B-Q, H-S.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS					
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED			
MEMB.	FORCE	VERT. LOAD LC1	MAX	MAX. UNBRAC	MEMB.	FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)	LENGTH		(LBS)	CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-R	-12896	0	-91.8	-91.8	0.44 (1)	3.11	M-E	0.9101	0.80 (1)
R-B	-7103	0	-91.8	-91.8	0.29 (1)	4.26	M-F	-0.081	0.62 (1)
B-C	-13576	0	-91.8	-91.8	0.45 (1)	3.08	K-F	0.3829	0.34 (1)
C-D	-13576	0	-91.8	-91.8	0.45 (1)	3.08	H-H	-1767	0.42 (1)
D-E	-10668	0	-91.8	-91.8	0.29 (1)	3.59	J-H	0.2950	0.25 (1)
E-F	-10668	0	-91.8	-91.8	0.29 (1)	3.59	D-M	-4017	0.61 (1)
F-G	-13608	0	-91.8	-91.8	0.46 (1)	3.05	O-D	0.3702	0.33 (1)
G-H	-13608	0	-91.8	-91.8	0.46 (1)	3.05	B-O	-1789	0.43 (1)
H-T	-7040	0	-91.8	-91.8	0.30 (1)	4.27	P-R	0.2850	0.25 (1)
T-I	-12554	0	-91.8	-91.8	0.44 (1)	3.13	Q-B	0.7492	0.00 (1)
							Q-B	-8985	0.62 (1)
							H-S	-9067	0.62 (1)
							S-T	0.7387	0.00 (1)

A-Q	0	6295	-18.5	-18.5	0.29 (1)	10.00
Q-U	0	13720	-18.5	-18.5	0.55 (1)	10.00
U-V	0	13720	-18.5	-18.5	0.55 (1)	10.00
V-P	0	13720	-18.5	-18.5	0.55 (1)	10.00
P-W	0	13656	-18.5	-18.5	0.59 (1)	10.00
W-X	0	13656	-18.5	-18.5	0.59 (1)	10.00
X-Y	0	13656	-18.5	-18.5	0.59 (1)	10.00
Y-O	0	13656	-18.5	-18.5	0.59 (1)	10.00
O-N	0	12168	-18.5	-18.5	0.58 (1)	10.00
N-Z	0	12168	-18.5	-18.5	0.58 (1)	10.00
Z-M	0	12168	-18.5	-18.5	0.58 (1)	10.00
M-AA	0	12197	-18.5	-18.5	0.58 (1)	10.00
AA-L	0	12197	-18.5	-18.5	0.58 (1)	10.00
L-K	0	12197	-18.5	-18.5	0.58 (1)	10.00
K-AB	0	13666	-18.5	-18.5	0.58 (1)	10.00
AB-AC	0	13666	-18.5	-18.5	0.58 (1)	10.00
AC-AD	0	13666	-18.5	-18.5	0.58 (1)	10.00
AD-J	0	13666	-18.5	-18.5	0.58 (1)	10.00
JA-E	0	13730	-18.5	-18.5	0.56 (1)	10.00
AE-AF	0	13730	-18.5	-18.5	0.56 (1)	10.00
AF-S	0	13730	-18.5	-18.5	0.56 (1)	10.00
S-I	0	6237	-18.5	-18.5	0.29 (1)	10.00

LICENSED PROFESSIONAL

04/20/20

H. J. G. ALVAREZ

100009022

PROVIDENCE OF OWNERSHIP

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	19-10-4	-1056	-1056	---	---	BACK	VERT	TOTAL	---	C1
M	15-10-4	-1056	-1056	---	---	BACK	VERT	TOTAL	---	C1
N	11-10-4	-1056	-1056	---	---	BACK	VERT	TOTAL	---	C1
U	1-10-4	-1056	-1056	---	---	BACK	VERT	TOTAL	---	C1
V	3-10-4	-1056	-1056	---	---	BACK	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOY 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 2010, CBC 2012, ABC 2010
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (1.06')
CALCULATED VERT. DEFL. (LL) = L/999 (0.21')
ALLOWABLE DEFL. (TL) = L/360 (1.06')
CALCULATED VERT. DEFL. (TL) = L/999 (0.38')

CSI: TO=0.48/1.00 (F-H:1), BC=0.59/1.00 (O-P:1), WB=0.80/1.00 (E-M:1), SSI=0.58/1.00 (Q-R:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

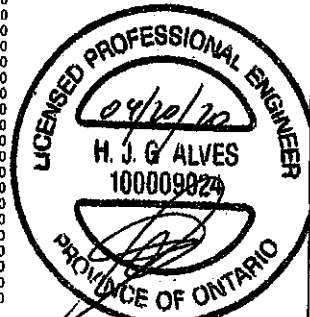
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSN) (PLI) (PLI)
MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656
MT16 438 278 1241 1245 4283 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only 1/2
DWG# T-2006424

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408187	T1	1	2	TRUSS DESC.		

Tamarack Pool Truss, Burlington

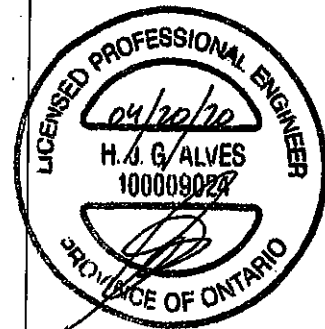
Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:17:44 2020 Page 2
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FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	5-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
X	7-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
Y	9-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
Z	13-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AA	17-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AB	21-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AC	23-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AD	25-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AE	27-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1
AF	29-10-4	-1056	-1056	---	BACK	VERT	TOTAL	---	C1

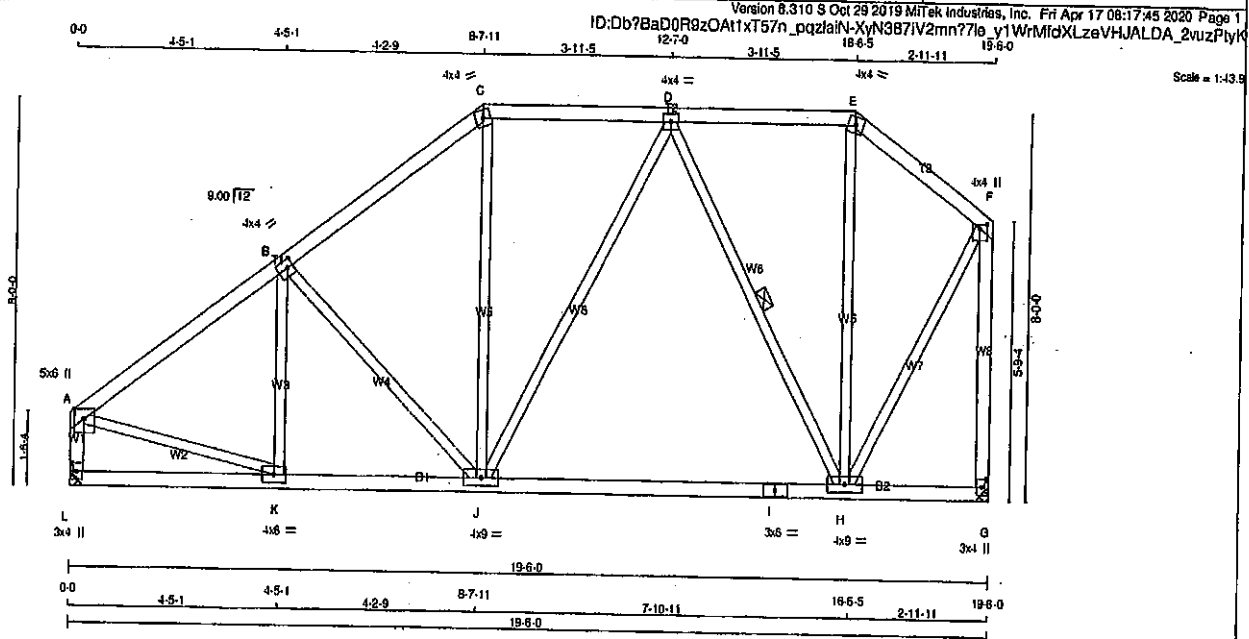
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2006424

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	T2	15	1	GREEN PARK HOMES	
Tamarack Flood Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	8.0	Edge	
B	TMVW-1	MT20	4.0	4.0	2.00	1.50
C	TTW-m	MT20	4.0	4.0		
D	TMVW-1	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMVWW-1	MT20	4.0	8.0		
I	BS-1	MT20	3.0	6.0		
J	BMVWW-1	MT20	4.0	8.0		
K	BMVW-1	MT20	4.0	6.0		
L	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
L	1075	0	1075	0
G	1075	0	1075	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX-MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	760	499 / 0	0 / 0	0 / 0	0 / 0	261 / 0	0 / 0
G	760	499 / 0	0 / 0	0 / 0	0 / 0	261 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH FR-TO				
A-B	-1052 / 0	-91.8 -91.8	0.23 (1)	5.87	K-B	-182 / 5	0.06 (1)
B-C	-879 / 0	-91.8 -91.8	0.23 (1)	6.25	B-J	-288 / 0	0.18 (1)
C-D	-652 / 0	-91.8 -91.8	0.18 (1)	6.25	J-C	0 / 228	0.05 (1)
D-E	-369 / 0	-91.8 -91.8	0.18 (1)	6.25	J-D	0 / 102	0.03 (4)
E-F	-483 / 0	-91.8 -91.8	0.11 (1)	6.25	D-H	-598 / 0	0.30 (1)
L-A	-1038 / 0	0.0 0.0	0.11 (1)	7.71	H-E	0 / 50	0.02 (4)
G-F	-1070 / 0	0.0 0.0	0.71 (1)	7.62	A-K	0 / 895	0.20 (1)
					H-F	0 / 751	0.17 (1)
L-K	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
K-J	0 / 864	-18.5 -18.5	0.24 (4)	10.00			
J-I	0 / 638	-18.5 -18.5	0.23 (4)	10.00			
I-H	0 / 638	-18.5 -18.5	0.23 (4)	10.00			
H-G	0 / 0	-18.5 -18.5	0.18 (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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCO 2010, NBC 2012, ABC 2019
- PART 9 OF NBCO 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) = $L/380$ (0.65")
CALCULATED VERT. DEFL.(LL) = $L/998$ (0.02")
ALLOWABLE DEFL.(TL) = $L/380$ (0.65")
CALCULATED VERT. DEFL.(TL) = $L/998$ (0.09")

CSI: TC=0.71/1.00 (F-G:1), BC=0.24/1.00 (J-K:4), WB=0.30/1.00 (D-H:1), SS=0.17/1.00 (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.

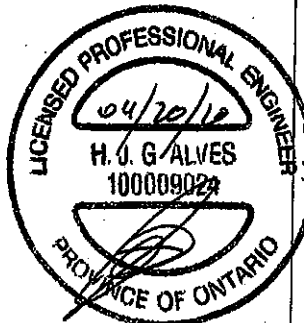
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 Inches

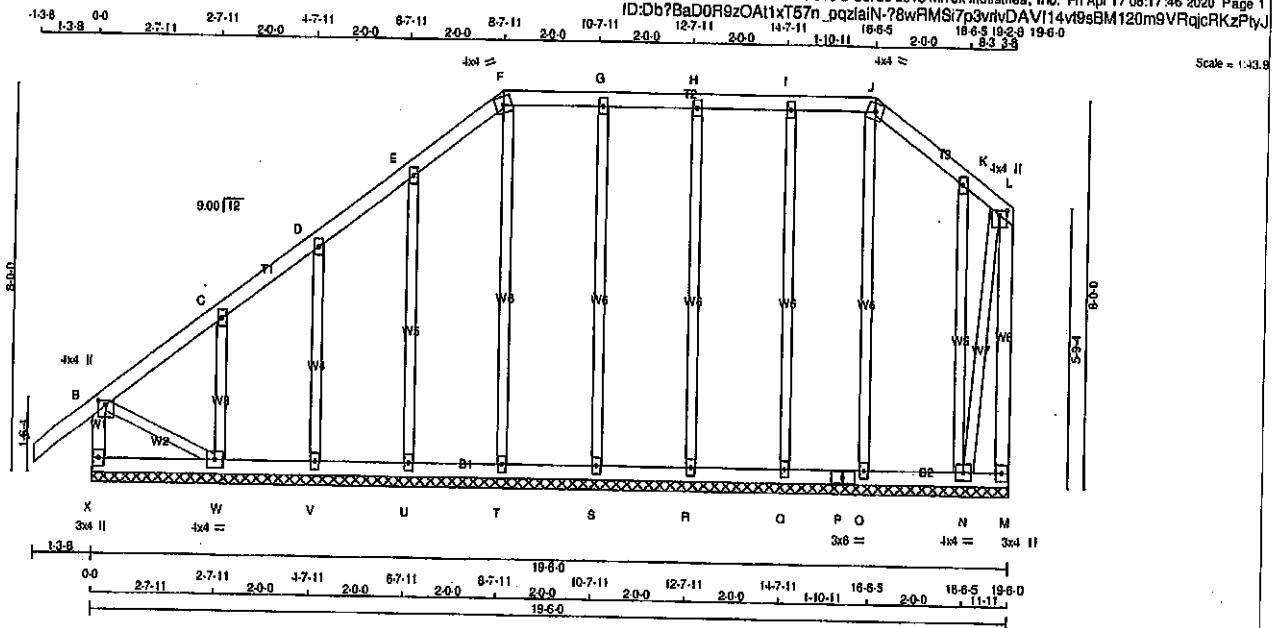
PLATE ROTATION TOL. = 5.0 Deg.

J-I GRIP=0.85 (H) (INPUT = 0.90)
J-I METAL=0.41 (A) (INPUT = 1.00)



Structural component only
DWG# T-2008425

JOB NAME 408187	TRUSS NAME T2G	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
X - B	2x4	DRY	No.2
A - F	2x4	DRY	No.2
F - J	2x4	DRY	No.2
J - L	2x4	DRY	No.2
M - L	2x4	DRY	No.2
X - P	2x4	DRY	No.2
P - M	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
DRY: SEASONED LUMBER.
GABLE STUDS SPACED AT 2-0-0 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, E, G, H, I, K				
C TMVW+w	MT20	2.0	4.0	
F TTW-m	MT20	4.0	4.0	
J TTW-m	MT20	4.0	4.0	
L TMVW+p	MT20	4.0	4.0	1.00 2.00
M BMV1+p	MT20	3.0	4.0	
N BMVW1-i	MT20	4.0	4.0	
O, Q, R, S, T, U, V				
O BMV1+w	MT20	2.0	4.0	
P BS-i	MT20	3.0	6.0	
W BMVW1-i	MT20	4.0	4.0	
X BMV1+p	MT20	3.0	4.0	

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

BEARINGS

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO		FR-TO			
X-B	-247.0	0.0 0.0 0.03 (1)	7.81	T-F	-147.0		
A-B	0.38	-91.8 -91.8 0.12 (1)	10.00	O-J	-139.0		
B-C	-8.0	-91.8 -91.8 0.08 (1)	10.00	S-W	0.19		
C-D	-24.0	-91.8 -91.8 0.08 (1)	8.25	W-C	-249.0		
D-E	-5.0	-91.8 -91.8 0.05 (1)	10.00	V-D	-158.0		
E-F	-17.0	-91.8 -91.8 0.05 (1)	6.25	U-E	-207.0		
F-G	-3.0	-91.8 -91.8 0.05 (1)	10.00	N-K	-178.0		
G-H	-3.0	-91.8 -91.8 0.05 (1)	10.00	N-L	0.9		
H-I	-3.0	-91.8 -91.8 0.04 (1)	10.00	S-G	-211.0		
I-J	-3.0	-91.8 -91.8 0.04 (1)	10.00	R-H	-178.0		
J-K	-14.0	-91.8 -91.8 0.05 (1)	6.25	Q-I	-192.0		
K-L	0.14	-91.8 -91.8 0.04 (1)	10.00				
M-L	-30.0	0.0 0.0 0.02 (1)	7.81				
X-W	0.0	-18.5 -18.5 0.03 (4)	10.00				
W-V	0.11	-18.5 -18.5 0.03 (4)	10.00				
V-U	0.8	-18.5 -18.5 0.02 (4)	10.00				
U-T	0.5	-18.5 -18.5 0.02 (4)	10.00				
T-S	0.3	-18.5 -18.5 0.01 (4)	10.00				
S-R	0.3	-18.5 -18.5 0.02 (4)	10.00				
R-Q	0.3	-18.5 -18.5 0.02 (4)	10.00				
Q-P	0.3	-18.5 -18.5 0.01 (4)	10.00				
P-O	0.3	-18.5 -18.5 0.01 (4)	10.00				
O-N	0.5	-18.5 -18.5 0.01 (4)	10.00				
N-M	0.0	-18.5 -18.5 0.01 (4)	10.00				

TOTAL WEIGHT = 2 X 110 = 220 LB

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. OC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, 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 0.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (A-B:1), BC=0.03/1.00 (V-W:4), WS=0.28/1.00 (G-S:1), SS=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

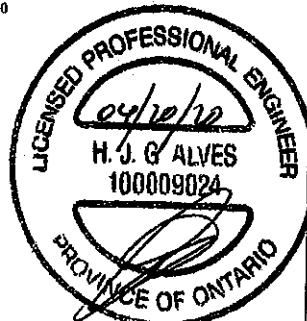
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
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= 0.62 (J) (INPUT = 0.90)
JSI METAL= 0.13 (C) (INPUT = 1.00)

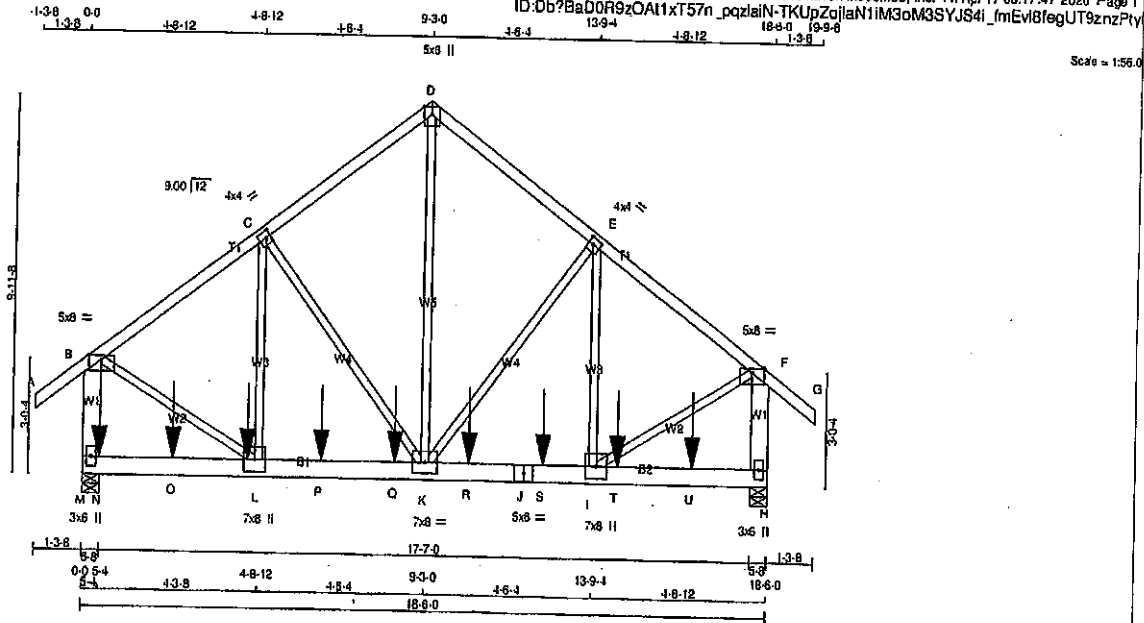


Structural component only
DWG# T-2006426

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	ORWG NO.
408187	T3	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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Scale = 1:56.0

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4 DRY	No.2	SPF		
D - G	2x4 DRY	No.2	SPF		
M - B	2x6 DRY	No.2	SPF		
H - F	2x6 DRY	No.2	SPF		
M - J	2x6 DRY	No.2	SPF		
J - H	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-D 1 12		TOP
D-G 1 12		TOP
M-B 2 12		SIDE(154.9)
H-F 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
M-J 2 12		SIDE(183.1)
J-H 2 12		SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
C-L 1 8		SIDE(92.5)
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 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
B TMVV-p	MT20	5.0	8.0	Edge		
C TMWW-I	MT20	4.0	4.0	2.00	1.50	
D TTW-p	MT20	5.0	8.0	Edge		
E TMWW-I	MT20	4.0	4.0	2.00	1.50	
F TMVV-p	MT20	5.0	8.0	Edge		
H BMV1-p	MT20	3.0	6.0			
I BMWW-I	MT20	7.0	8.0			
J BS-I	MT20	5.0	6.0			
K BMWW-I	MT20	7.0	8.0			
L BMWW-I	MT20	7.0	8.0			
M BMV1-p	MT20	3.0	6.0			

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	VERT	UPLIFT	IN-SX
M	8308	0	8308	0
H	5500	0	5500	0

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
M	4449	2978 0 0 0 0 1471 0 0 0
H	3880	2800 0 0 0 0 1280 0 0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (PLF)
FR-TO	A-B	0 / 38	-91.8	-91.8	0.07 (1)	10.00	K-D	0 / 4104	0.51 (1)	0.60 (1)
	B-C	-4484 / 0	-91.8	-91.8	0.27 (1)	4.33	K-E	-1029 / 0	0.60 (1)	0.19 (1)
	C-D	-3719 / 0	-91.8	-91.8	0.23 (1)	4.70	I-E	0 / 777	0.62 (1)	0.10 (1)
	D-E	-3719 / 0	-91.8	-91.8	0.23 (1)	4.70	C-K	-1075 / 0	0.62 (1)	0.10 (1)
	E-F	-4430 / 0	-91.8	-91.8	0.27 (1)	4.35	L-C	0 / 835	0.10 (1)	0.51 (1)
	F-G	0 / 38	-91.8	-91.8	0.07 (1)	10.00	B-L	0 / 4101	0.51 (1)	0.50 (1)
	M-B	-4977 / 0	0.0	0.0	0.27 (1)	6.52	I-F	0 / 4070	0.50 (1)	
	H-F	-4941 / 0	0.0	0.0	0.27 (1)	6.53				
	M-N	0 / 0	-18.5	-18.5	0.39 (1)	10.00				
	N-O	0 / 0	-18.5	-18.5	0.39 (1)	10.00				
	O-L	0 / 0	-18.5	-18.5	0.39 (1)	10.00				
	L-P	0 / 3591	-18.5	-18.5	0.57 (1)	10.00				
	P-Q	0 / 3591	-18.5	-18.5	0.57 (1)	10.00				
	Q-R	0 / 3591	-18.5	-18.5	0.57 (1)	10.00				
	R-J	0 / 3594	-18.5	-18.5	0.63 (1)	10.00				
	J-S	0 / 3594	-18.5	-18.5	0.63 (1)	10.00				
	S-I	0 / 3594	-18.5	-18.5	0.63 (1)	10.00				
	I-T	0 / 0	-18.5	-18.5	0.41 (1)	10.00				
	T-U	0 / 0	-18.5	-18.5	0.41 (1)	10.00				
	U-H	0 / 0	-18.5	-18.5	0.41 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TOTAL	REEL
	L	4-5-4	-1056	-1056		FRONT	VERT		
	N	5-4	-1062	-1062		FRONT	VERT		
	O	2-5-4	-1056	-1056		FRONT	VERT		
	P	6-5-4	-1056	-1056		FRONT	VERT		
	Q	8-5-4	-1056	-1056		FRONT	VERT		
	R	10-5-4	-1056	-1056		FRONT	VERT		
	S	12-5-4	-1056	-1056		FRONT	VERT		
	T	14-5-4	-1056	-1056		FRONT	VERT		
	U	16-5-4	-1056	-1056		FRONT	VERT		

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
OL = 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
- TPC 2011, 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 (0.62")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.62")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.27(1.00 (B-C:1), BC=0.63(1.00 (I-K:1), WB=0.62(1.00 (C-K:1), SS=0.54(1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

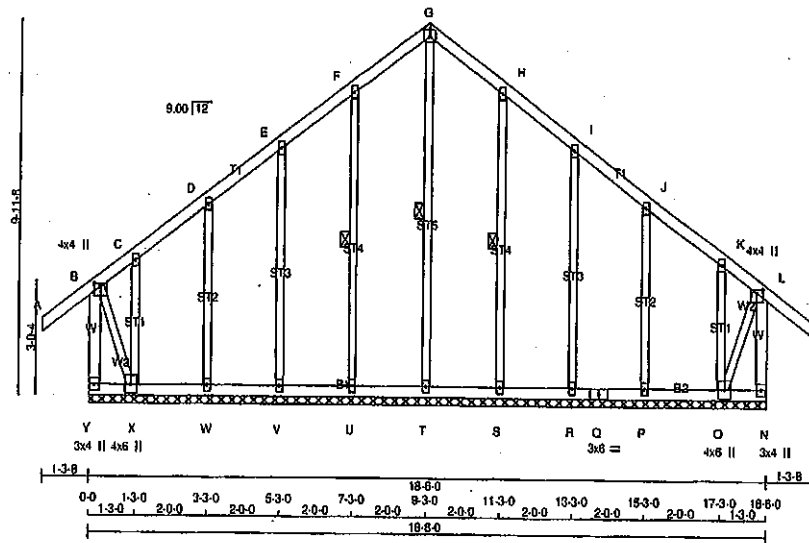
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1607 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (K) (INPUT = 0.90)
JSI METAL= 0.57 (J) (INPUT = 1.00)

Structural component only
DWG# T-2006427

[illegible]

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

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

PLATES (nuclei in inches)				
J	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	4.0 1.00 2.00
C, D, E, F, H, I, J, K				
G	TMW+u	MT20	2.0	4.0
C	TTW+p	MT20	4.0	4.0 2.25 2.00
L	TMVW+p	MT20	4.0	4.0 1.00 2.00
N	BNV1+p	MT20	3.0	4.0
O	BMWV1+u	MT20	4.0	6.0
P, R, S, T, U, V, W				
Q	BNW1+u	MT20	2.0	4.0
P	BS-1	MT20	3.0	6.0
X	BMWV1+u	MT20	4.0	6.0
Y	BMV1+p	MT20	3.0	4.0

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

MAX. UNBRACED BOTTOM CHORD LENGTH = 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				
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO		FROM	TO			FR-TO			
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00	T-G	-171.0	0.11 (1)	
B-C	-37.0	-91.8	-91.8	0.12 (1)	6.25	U-F	-210.0	0.10 (1)	
C-D	0.11	-91.8	-91.8	0.05 (1)	10.00	V-E	-174.0	0.14 (1)	
D-E	0.7	-91.8	-91.8	0.05 (1)	10.00	W-D	-185.0	0.09 (1)	
E-F	0.14	-91.8	-91.8	0.06 (1)	10.00	X-C	-68.0	0.02 (1)	
F-G	0.73	-91.8	-91.8	0.05 (1)	10.00	H-B	-210.0	0.10 (1)	
G-H	0.73	-91.8	-91.8	0.05 (1)	10.00	R-I	-174.0	0.14 (1)	
H-I	0.14	-91.8	-91.8	0.08 (1)	10.00	P-J	-195.0	0.09 (1)	
I-J	0.7	-91.8	-91.8	0.05 (1)	10.00	C-K	-68.0	0.02 (1)	
J-K	0.11	-91.8	-91.8	0.05 (1)	10.00	B-X	-4.0	0.00 (1)	
K-L	-37.0	-91.8	-91.8	0.12 (1)	6.25	O-L	-4.0	0.00 (1)	
L-M	0.38	-91.8	-91.8	0.12 (1)	10.00				
Y-B	-240.0	0.0	0.0	0.04 (1)	7.81				
N-L	-240.0	0.0	0.0	0.04 (1)	7.81				
Y-X	0.0	-18.5	-18.5	0.01 (4)	10.00				
X-W	-3.0	-18.5	-18.5	0.02 (4)	10.00				
W-V	-7.0	-18.5	-18.5	0.02 (4)	10.00				
V-U	-9.0	-18.5	-18.5	0.01 (4)	10.00				
U-T	-11.0	-18.5	-18.5	0.01 (4)	6.25				
T-S	-11.0	-18.5	-18.5	0.01 (4)	6.25				
S-R	-9.0	-18.5	-18.5	0.01 (4)	10.00				
R-Q	-7.0	-18.5	-18.5	0.02 (4)	10.00				
Q-P	-7.0	-18.5	-18.5	0.02 (4)	10.00				
P-O	-3.0	-18.5	-18.5	0.02 (4)	10.00				
O-N	0.0	-18.5	-18.5	0.01 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF 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.

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN
LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF
LIVE LOAD

CSI: TC=0.12/1.00 (L-M:1), BC=0.02/1.00 (P-R:4),
WB=0.14/1.00 (I-R:1), SSI=0.08/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES					
PLATE	GRIP(DRY)		SHEAR		SECTION
	(PSI)		(PLI)		(PLI)
	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= 0.49 (L) (INPUT = 0.90)
JSI METAL= 0.11 (H) (INPUT = 1.00)

Abstract

1 **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12** **13** **14** **15** **16** **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31** **32** **33** **34** **35** **36** **37** **38** **39** **40** **41** **42** **43** **44** **45** **46** **47** **48** **49** **50** **51** **52** **53** **54** **55** **56** **57** **58** **59** **60** **61** **62** **63** **64** **65** **66** **67** **68** **69** **70** **71** **72** **73** **74** **75** **76** **77** **78** **79** **80** **81** **82** **83** **84** **85** **86** **87** **88** **89** **90** **91** **92** **93** **94** **95** **96** **97** **98** **99** **100** **101** **102** **103** **104** **105** **106** **107** **108** **109** **110** **111** **112** **113** **114** **115** **116** **117** **118** **119** **120** **121** **122** **123** **124** **125** **126** **127** **128** **129** **130** **131** **132** **133** **134** **135** **136** **137** **138** **139** **140** **141** **142** **143** **144** **145** **146** **147** **148** **149** **150** **151** **152** **153** **154** **155** **156** **157** **158** **159** **160** **161** **162** **163** **164** **165** **166** **167** **168** **169** **170** **171** **172** **173** **174** **175** **176** **177** **178** **179** **180** **181** **182** **183** **184** **185** **186** **187** **188** **189** **190** **191** **192** **193** **194** **195** **196** **197** **198** **199** **200** **201** **202** **203** **204** **205** **206** **207** **208** **209** **210** **211** **212** **213** **214** **215** **216** **217** **218** **219** **220** **221** **222** **223** **224** **225** **226** **227** **228** **229** **230** **231** **232** **233** **234** **235** **236** **237** **238** **239** **240** **241** **242** **243** **244** **245** **246** **247** **248** **249** **250** **251** **252** **253** **254** **255** **256** **257** **258** **259** **260** **261** **262** **263** **264** **265** **266** **267** **268** **269** **270** **271** **272** **273** **274** **275** **276** **277** **278** **279** **280** **281** **282** **283** **284** **285** **286** **287** **288** **289** **290** **291** **292** **293** **294** **295** **296** **297** **298** **299** **300** **301** **302** **303** **304** **305** **306** **307** **308** **309** **310** **311** **312** **313** **314** **315** **316** **317** **318** **319** **320** **321** **322** **323** **324** **325** **326** **327** **328** **329** **330** **331** **332** **333** **334** **335** **336** **337** **338** **339** **340** **341** **342** **343** **344** **345** **346** **347** **348** **349** **350** **351** **352** **353** **354** **355** **356** **357** **358** **359** **360** **361** **362** **363** **364** **365** **366** **367** **368** **369** **370** **371** **372** **373** **374** **375** **376** **377** **378** **379** **380** **381** **382** **383** **384** **385** **386** **387** **388** **389** **390** **391** **392** **393** **394** **395** **396** **397** **398** **399** **400** **401** **402** **403** **404** **405** **406** **407** **408** **409** **410** **411** **412** **413** **414** **415** **416** **417** **418** **419** **420** **421** **422** **423** **424** **425** **426** **427** **428** **429** **430** **431** **432** **433** **434** **435** **436** **437** **438** **439** **440** **441** **442** **443** **444** **445** **446** **447** **448** **449** **450** **451** **452** **453** **454** **455** **456** **457** **458** **459** **460** **461** **462** **463** **464** **465** **466** **467**

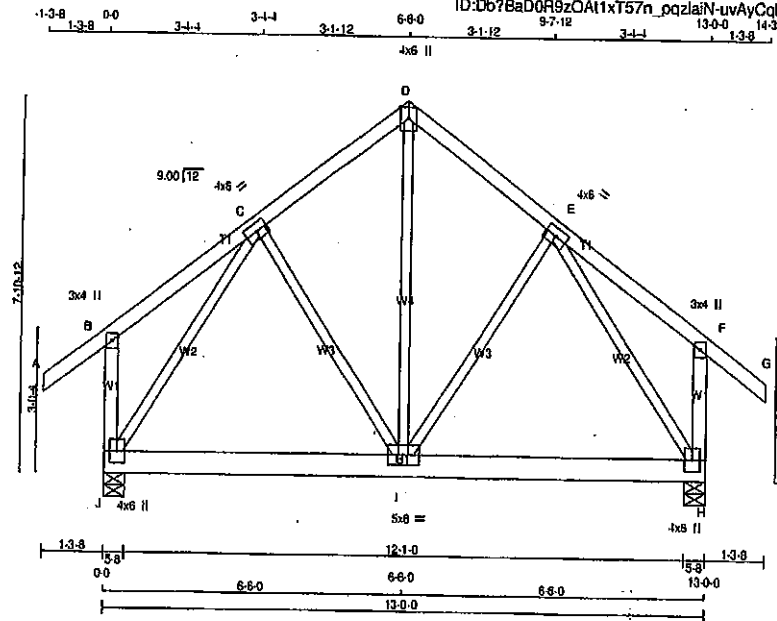
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Structural component analysis

DWG# T 2006438

BYRON T-2000-20

JOB NAME 408187	TRUSS NAME T5	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



TOTAL WEIGHT = 3 X 75 = 225 lb

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 - H	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMV/p	MT20	3.0	4.0
C	TMVW-t	MT20	4.0	6.0
D	TMV/p	MT20	4.0	6.0
E	TMVW-t	MT20	4.0	6.0
F	TMV/p	MT20	3.0	4.0
H	BMVW1-p	MT20	4.0	6.0
I	BMVW1-p	MT20	5.0	6.0
J	BMVW1-p	MT20	4.0	6.0

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
J	1493	0	1493	0	5-8
H	1493	0	1493	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	1114	403.0	0.0	0.0	0.0	711.0	0.0
H	1114	403.0	0.0	0.0	0.0	711.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
A-B	0:38	-91.8	-91.8 0.16 (1)	I-D	0:775	0.27 (4)	
B-C	0:19	-91.8	-91.8 0.16 (1)	I-E	0:207	0.08 (4)	
C-D	-858:0	-91.8	-91.8 0.16 (1)	C-I	0:207	0.08 (4)	
D-E	-858:0	-91.8	-91.8 0.16 (1)	J-C	-1134:0	0.70 (1)	
E-F	0:19	-91.8	-91.8 0.16 (1)	E-H	-1134:0	0.70 (1)	
F-G	0:38	-91.8	-91.8 0.16 (1)				
J-B	-245:0	0.0	0.0 0.04 (1)				
H-F	-245:0	0.0	0.0 0.04 (1)				
J-I	0:616	-118.5	-118.5 0.84 (4)				
I-H	0:616	-118.5	-118.5 0.84 (4)				

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = U/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = U/999 (0.07")

CSI: TC=0.19/1.00 (C-D:1), BC=0.84/1.00 (I-J:4),
WB=0.70/1.00 (C-J:1), SSI=0.55/1.00 (I-J:4)

DOL LUMBER=0.88 NAIL=0.88 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

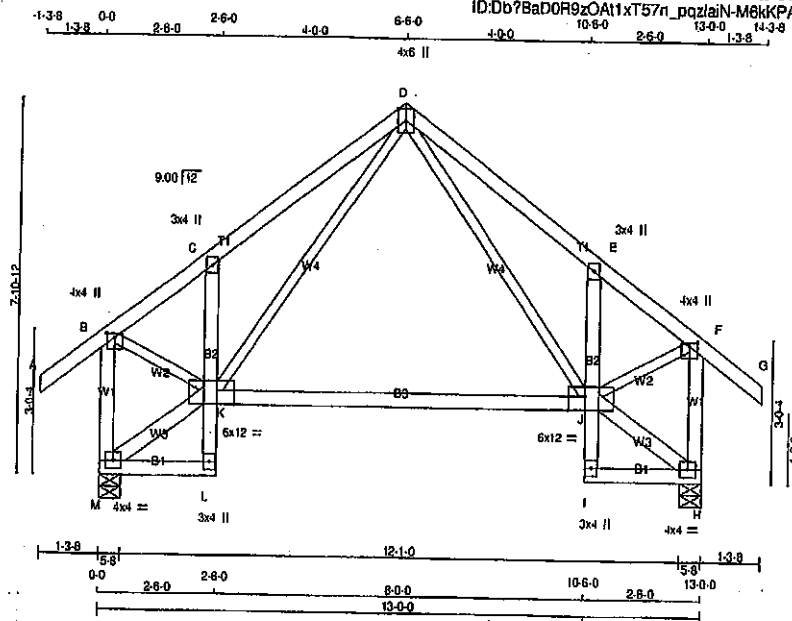
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.76 (E) (INPUT = 0.90)
JSI METAL = 0.32 (H) (INPUT = 1.00)

Structural component only
DWG# T-2006429



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	T5S	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Fri Apr 17 08:17:51 2020 Page 1					
ID:Db7BaD0R9z0A11xT57n_pqzlaN-M6kkPAmGdcX8rg57lIdFowthrNfVh3NEb8RM6YzPtyE					
Scale = 1:24.8					



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TMV+p	MT20	3.0	4.0		
D	TTWV+p	MT20	4.0	8.0	Edge	
E	TMV+p	MT20	3.0	4.0		
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
H	BMVW1-i	MT20	4.0	4.0		
I	BMV+p	MT20	3.0	4.0		
J	BVMWW1-i	MT20	6.0	12.0	Edge	4.50
K	BVMWW1-i	MT20	6.0	12.0	Edge	4.50
L	BMV+p	MT20	3.0	4.0		
M	BMVW1-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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
M	843	0	843	0
H	843	0	843	0

UNFACTORED REACTIONS

	1ST LCASE	MAX-MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
M	594	403	0	0	0	191	0	0
H	594	403	0	0	0	191	0	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) M, 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: (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-B	0:38	-91.8	-91.8 0.12 (1)	10.00	D-J	0:268	0.08 (1)
B-C	-608:0	-91.8	-91.8 0.15 (1)	6.25	K-D	0:268	0.08 (1)
C-D	-655:0	-91.8	-91.8 0.19 (1)	6.25	M-K	-8:0	0.00 (1)
D-E	-655:0	-91.8	-91.8 0.19 (1)	6.25	B-K	0:578	0.13 (1)
E-F	-608:0	-91.8	-91.8 0.15 (1)	6.25	J-H	-8:0	0.00 (1)
F-G	0:38	-91.8	-91.8 0.12 (1)	10.00	J-F	0:578	0.13 (1)
M-B	-817:0	0.0	0.0 0.13 (1)	7.81			
H-F	-817:0	0.0	0.0 0.13 (1)	7.81			
M-L	0:7	-18.5	-18.5 0.03 (4)	10.00			
L-K	0:24	0.0	0.0 0.02 (1)	10.00			
K-C	-387:0	0.0	0.0 0.02 (1)	7.81			
K-J	0:358	-18.5	-18.5 0.40 (4)	10.00			
I-J	0:24	0.0	0.0 0.02 (1)	10.00			
J-E	-387:0	0.0	0.0 0.02 (1)	7.81			
I-H	0:7	-18.5	-18.5 0.03 (4)	10.00			

TOTAL WEIGHT = 2 X 74 = 147 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

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

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

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

ALLOWABLE DEFL.(LL) = L/380 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/380 (0.43")
CALCULATED VERT. DEFL.(TL) = L/678 (0.23")

CSI: TC=0.19/1.00 (C-D:1), BC=0.40/1.00 (J-K:4), WB=0.13/1.00 (B-K: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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

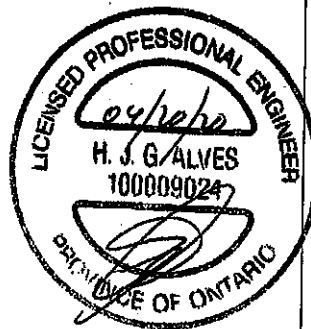
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1887
	618	354	1887

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP = 0.74 (B) (INPUT = 0.90)

ISI METAL = 0.20 (F) (INPUT = 1.00)



Structural component only
DWG# T-2006430

[illegible]

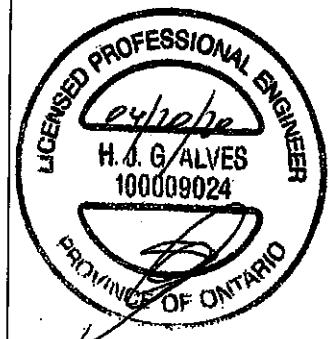
JOB NAME 408187	TRUSS NAME T21	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Flood Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:17:52 2020 Page 2
ID:1ebEM4Cg92xn94Zv?kFPizmBR3-qlicWnuQvf?TogKs?8U97PnUn yQRiNmAwf zPtyD

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	26-0-8	-469	-469	---	FRONT	VERT	TOTAL	---	C1
L	25-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	19-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	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	21-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	23-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	2-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AB	4-0-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AC	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	17-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	21-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	23-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	27-10-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	29-10-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

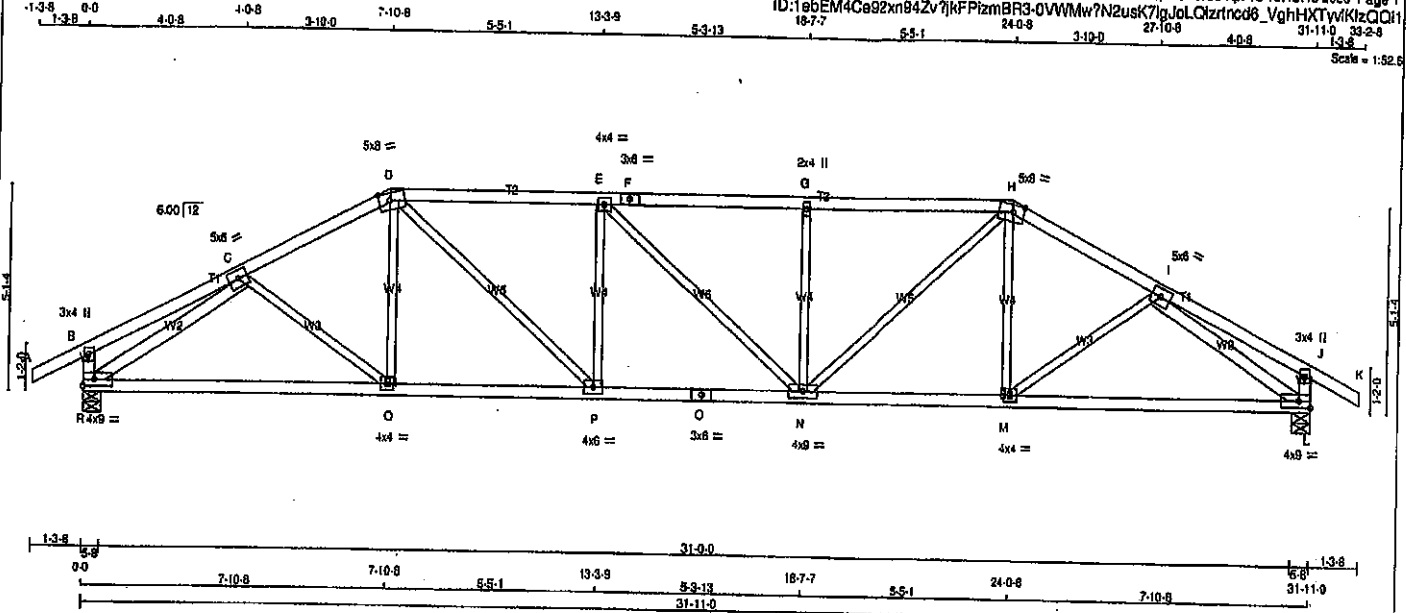


Structural component only
DWG# T-2008431

42

JOB NAME 408130	TRUSS NAME T22	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310.8 Oct 29 2019 Mitek Industries, Inc. Wed Apr 16 15:45:48 2020 Page 1
 ID:1ebEM4Cg92xn94Zv7kfPizmBR3-0VWMw7N2usk7JgJdLQizrtncd6_VghHXTyVikIzQQH



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

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
R	1884	0	1884	0	0	5-8	5-8	5-8	5-8
L	1884	0	1884	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		
R	1330	888/0	0/0	0/0	0/0	444/0	0/0		
L	1330	888/0	0/0	0/0	0/0	444/0	0/0		

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

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 25.8 PSF
DL	= 8.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF
SPACING = 24.0 IN. O.C.	
LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM	
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015	
THIS DESIGN COMPLIES WITH:	
- PART 9 OF CBC 2018, CBC 2012, ABC 2018	
- 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	

PLATES (table 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
D	TTWW-m	MT20	5.0	8.0
E	TMWW-t	MT20	4.0	4.0
F	TS-t	MT20	3.0	6.0
G	TMW-w	MT20	2.0	4.0
H	TTWW-m	MT20	5.0	8.0
I	TMWW-t	MT20	5.0	6.0
J	TMV+p	MT20	3.0	4.0
L	BMVW-1-t	MT20	4.0	9.0
M	BMVW-1	MT20	4.0	4.0
N	BMVWW-1	MT20	4.0	9.0
O	BS-t	MT20	3.0	6.0
P	BMVW-1	MT20	4.0	8.0
Q	BMVW-1	MT20	4.0	4.0
R	BMVW-1-t	MT20	4.0	9.0

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

BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	LOI (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO					FR-TO				
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	C-D	0/74	0.03 (4)	
B-C	0/17	-91.8	-91.8	0.20 (1)	10.00	C-D	0/133	0.04 (4)	
C-D	-2469/0	-91.8	-91.8	0.30 (1)	4.12	D-E	0/533	0.21 (1)	
D-E	-2893/0	-91.8	-91.8	0.54 (1)	3.61	E-F	-534/0	0.21 (1)	
E-F	-2891/0	-91.8	-91.8	0.83 (1)	3.61	F-G	-2/0	0.00 (1)	
F-G	-2891/0	-91.8	-91.8	0.83 (1)	3.61	G-H	-533/0	0.21 (1)	
G-H	-2891/0	-91.8	-91.8	0.83 (1)	3.61	H-I	0/981	0.21 (1)	
H-I	-2469/0	-91.8	-91.8	0.30 (1)	4.12	I-J	0/174	0.04 (4)	
I-J	0/17	-91.8	-91.8	0.20 (1)	10.00	J-K	0/28	0.03 (4)	
J-K	0/28	-91.8	-91.8	0.12 (1)	10.00	K-L	-2667/0	0.74 (1)	
K-L	-2667/0	0.0	0.0	0.03 (1)	7.81	L-M	-2667/0	0.74 (1)	
L-M	-2667/0	0.0	0.0	0.03 (1)	7.81	M-N	0/2187	-18.5	-18.5
M-N	0/2187	-18.5	-18.5	0.49 (1)	10.00	N-O	0/2194	-18.5	-18.5
N-O	0/2194	-18.5	-18.5	0.53 (1)	10.00	O-P	0/2893	-18.5	-18.5
O-P	0/2893	-18.5	-18.5	0.53 (1)	10.00	P-Q	0/2893	-18.5	-18.5
P-Q	0/2893	-18.5	-18.5	0.53 (1)	10.00	Q-R	0/2194	-18.5	-18.5
Q-R	0/2194	-18.5	-18.5	0.49 (1)	10.00	R-S	0/2188	-18.5	-18.5
R-S	0/2188	-18.5	-18.5	0.49 (1)	10.00	S-T			

SMALL BUILDING REQUIREMENTS OF PART 9,
NBC 2010, NBCB 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBCB 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 6.4 P.S.F. RAIN
LOAD) EQUALS 23.6 P.S.F. SPECIFIED ROOF
LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.54/1.00 (D-E:1), BC=0.53/1.00 (N-P:1),
WB=0.74/1.00 (L: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

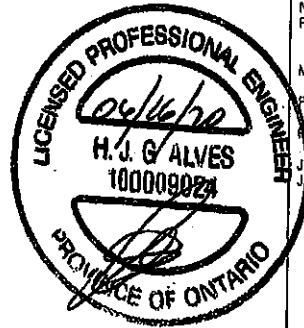
COMPANION LIVE LOAD FACTOR= 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

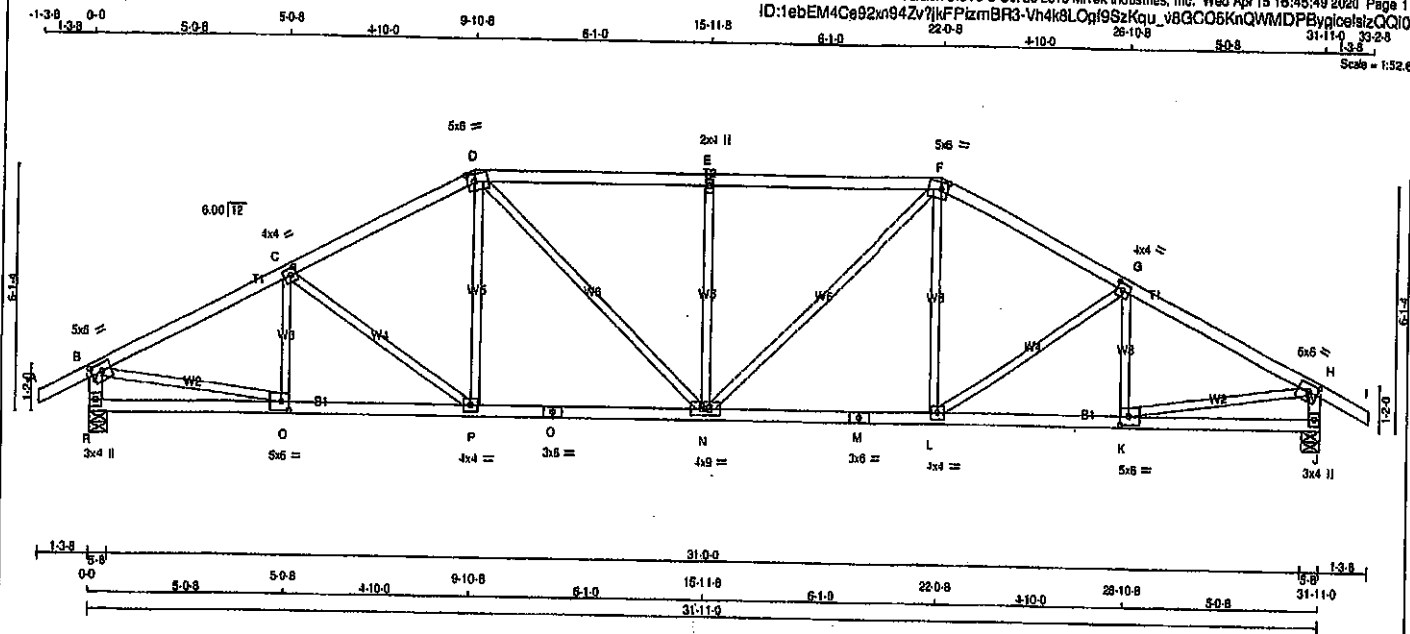
PLATE GRIP(DRY) SHEAR SECTION



Structural component only
 DWG# T-2006317

JOB NAME 408130	TRUSS NAME T23	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 8 Oct 29 2019 Mitak Industries, Inc. Wed Apr 15 16:45:49 2020 Page 1	

ID:1ebEM4C892m94Zv7jKFPizmBR3-Vh4k8LOqf9SzkQu_v8GCO5KnQWMDPBypicelszCC10



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
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 EXCEPT	2x3	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	8.0	2.25	2.75
C	TMVW-1	MT20	4.0	4.0	2.00	1.75
D	TTVW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-m	MT20	2.0	4.0		
F	TTVW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-1	MT20	4.0	4.0	2.00	1.75
H	TMVW-1	MT20	6.0	6.0	2.25	2.75
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-1	MT20	5.0	6.0	2.50	2.50
L	BMVW-1	MT20	4.0	4.0		
M	BS-1	MT20	3.0	8.0		
N	BMVW-1	MT20	4.0	8.0		
O	BS-1	MT20	3.0	6.0		
P	BMVW-1	MT20	4.0	4.0		
Q	BMVW-1	MT20	5.0	6.0	2.50	2.50
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 IN-SX	REQD BRG IN-SX
JT	VERT 1884	HORZ 0	DOWN 1884	HORZ 0
R	1884	0	0	5-8
J	1884	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	1330	888 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
R	1330	888 / 0	0 / 0	0 / 0	0 / 0	444 / 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 = 3.82 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-81.8	-81.8 0.12 (1)	Q-C	-301 / 0	0.07 (1)	
B-C	-2538 / 0	-81.8	-81.8 0.37 (1)	C-P	-284 / 0	0.16 (1)	
C-D	-2342 / 0	-81.8	-81.8 0.38 (1)	P-O	0 / 257	0.06 (1)	
D-E	-2498 / 0	-81.8	-81.8 0.64 (1)	D-N	0 / 675	0.13 (1)	
E-F	-2498 / 0	-81.8	-81.8 0.54 (1)	N-E	-685 / 0	0.40 (1)	
F-G	-2342 / 0	-81.8	-81.8 0.35 (1)	N-F	0 / 575	0.13 (1)	
G-H	-2538 / 0	-81.8	-81.8 0.37 (1)	L-F	0 / 257	0.06 (1)	
H-I	0 / 28	-81.8	-81.8 0.12 (1)	L-G	-284 / 0	0.16 (1)	
R-B	-1841 / 0	0.0	0.0 0.19 (1)	K-G	-301 / 0	0.07 (1)	
J-H	-1841 / 0	0.0	0.0 0.19 (1)	B-Q	0 / 2323	0.52 (1)	
R-Q	0 / 0	-18.5	-18.5 0.10 (4)	K-H	0 / 2323	0.52 (1)	
C-P	0 / 2290	-18.5	-18.5 0.45 (1)				
P-O	0 / 2077	-18.5	-18.5 0.40 (1)				
O-N	0 / 2077	-18.5	-18.5 0.40 (1)				
N-M	0 / 2077	-18.5	-18.5 0.40 (1)				
M-L	0 / 2077	-18.5	-18.5 0.40 (1)				
L-K	0 / 2290	-18.5	-18.5 0.43 (1)				
K-J	0 / 0	-18.5	-18.5 0.10 (4)				

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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.06")
CALCULATED VERT. DEFL. (LL) = L/998 (0.13")
ALLOWABLE DEFL. (TL) = L/360 (1.06")
CALCULATED VERT. DEFL. (TL) = L/998 (0.24")

CSI: TC=0.54/1.00 (D-E:1), BC=0.43/1.00 (K-L:1), WB=0.52/1.00 (H-K:1), SSI=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

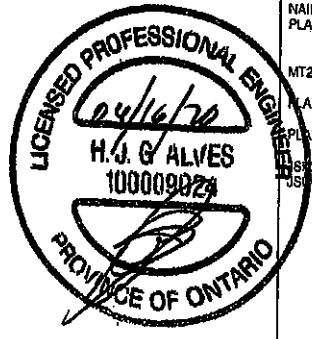
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

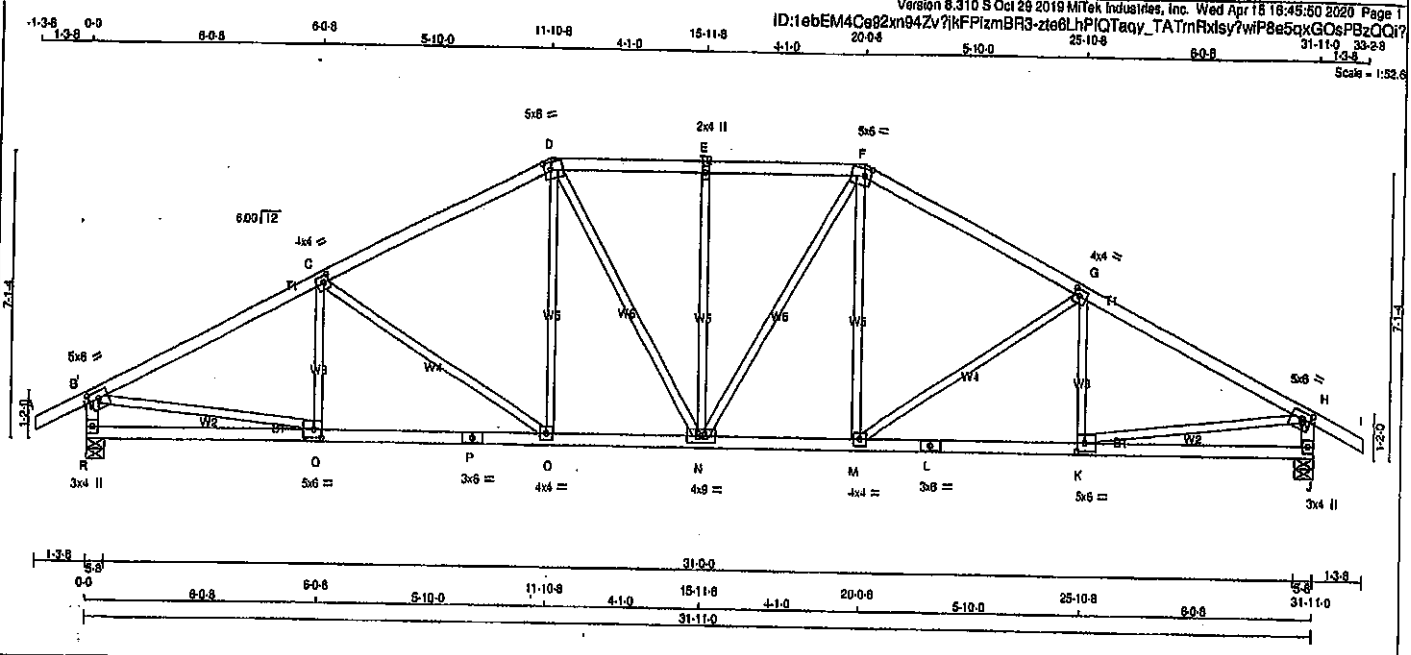
PLATE	GRIP (DRY)	SHEAR	SECTION	
(PS)	(PLI)	(PLI)		
MAX	MIN	MAX	MIN	
MT20	618	354	1887	1887

PLATE PLACEMENT TOL = 0.250 inches
PLATE ROTATION TOL = 5.0 Deg.

GRIP = 0.90 (B) (INPUT = 0.90)
SHEAR = 0.67 (B) (INPUT = 1.00)



JOB NAME 408130	TRUSS NAME T24	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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
I - B	2x4	DRY	No.2	SPF
B - H	2x4	DRY	No.2	SPF
H - P	2x4	DRY	No.2	SPF
P - L	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	UPLIFT		
JT	1884	0	1884	0	5-8	5-8
R	1884	0	1884	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
JT	1330	888/0	0/0	0/0	0	444	0
J	1330	888/0	0/0	0/0	0	444	0

DESIGN CRITERIA

SPECIFIED LOADS:

- TOP CH. LL = 25.0 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.

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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 25.0 P.S.F. SPECIFIED ROOF LIVE LOAD

PLATES (table in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	8.0	2.00	2.75
C	TMVW-1	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-1	MT20	4.0	4.0	2.00	1.75
H	TMVW-1	MT20	5.0	6.0	2.00	2.75
J	BMV1-p	MT20	3.0	4.0		
K	BMVW-1	MT20	5.0	6.0	2.50	2.50
L	BS-1	MT20	3.0	6.0		
M	BMVW-1	MT20	4.0	4.0		
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	5.0	6.0	2.50	2.50
R	BMV1-p	MT20	3.0	4.0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 (PLF)	MAX. UNBRACED LENGTH	
FR-TO					FR-TO				
A-B	0:28	-91.8	-91.8	0.12 (1)	10.00	C-C	-212:29	0.06 (1)	
B-C	-2579:0	-91.8	-91.8	0.85 (1)	3.79	C-D	-480:0	0.48 (1)	
C-D	-2188:0	-91.8	-91.8	0.49 (1)	4.11	D-E	0:362	0.08 (1)	
D-E	-2088:0	-91.8	-91.8	0.24 (1)	4.49	D-N	0:296	0.07 (1)	
E-F	-2088:0	-91.8	-91.8	0.24 (1)	4.49	N-E	-451:0	0.39 (1)	
F-G	-2188:0	-91.8	-91.8	0.49 (1)	4.11	N-F	0:296	0.07 (1)	
G-H	-2579:0	-91.8	-91.8	0.55 (1)	3.79	M-F	0:362	0.08 (1)	
H-I	0:28	-91.8	-91.8	0.12 (1)	10.00	M-G	-480:0	0.48 (1)	
I-J	-1836:0	0.0	0.0	0.19 (1)	6.18	K-G	-212:29	0.06 (1)	
J-H	-1836:0	0.0	0.0	0.19 (1)	6.18	B-Q	0:2355	0.53 (1)	
						K-H	0:2355	0.53 (1)	
R-Q	0:0	-18.5	-18.5	0.15 (4)	10.00				
Q-P	0:2332	-18.5	-18.5	0.44 (1)	10.00				
P-O	0:2332	-18.5	-18.5	0.44 (1)	10.00				
O-N	0:1935	-18.5	-18.5	0.37 (1)	10.00				
N-M	0:1935	-18.5	-18.5	0.37 (1)	10.00				
M-L	0:2332	-18.5	-18.5	0.44 (1)	10.00				
L-K	0:2332	-18.5	-18.5	0.44 (1)	10.00				
K-J	0:0	-18.5	-18.5	0.15 (4)	10.00				

ALLOWABLE DEFL. (LL) = L/360 (1.06")

CALCULATED VERT. DEFL. (LL) = L/999 (0.12")

ALLOWABLE DEFL. (TL) = L/360 (1.06")

CALCULATED VERT. DEFL. (TL) = L/999 (0.21")

GSI: TC=0.55/1.00 (G-H:1), BC=0.44/1.00 (K-M:1), WB=0.53/1.00 (H-K:1), SS=0.24/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

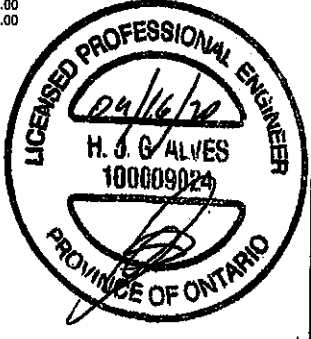
MT20 618 954 1867 768 1987 1666

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.80)

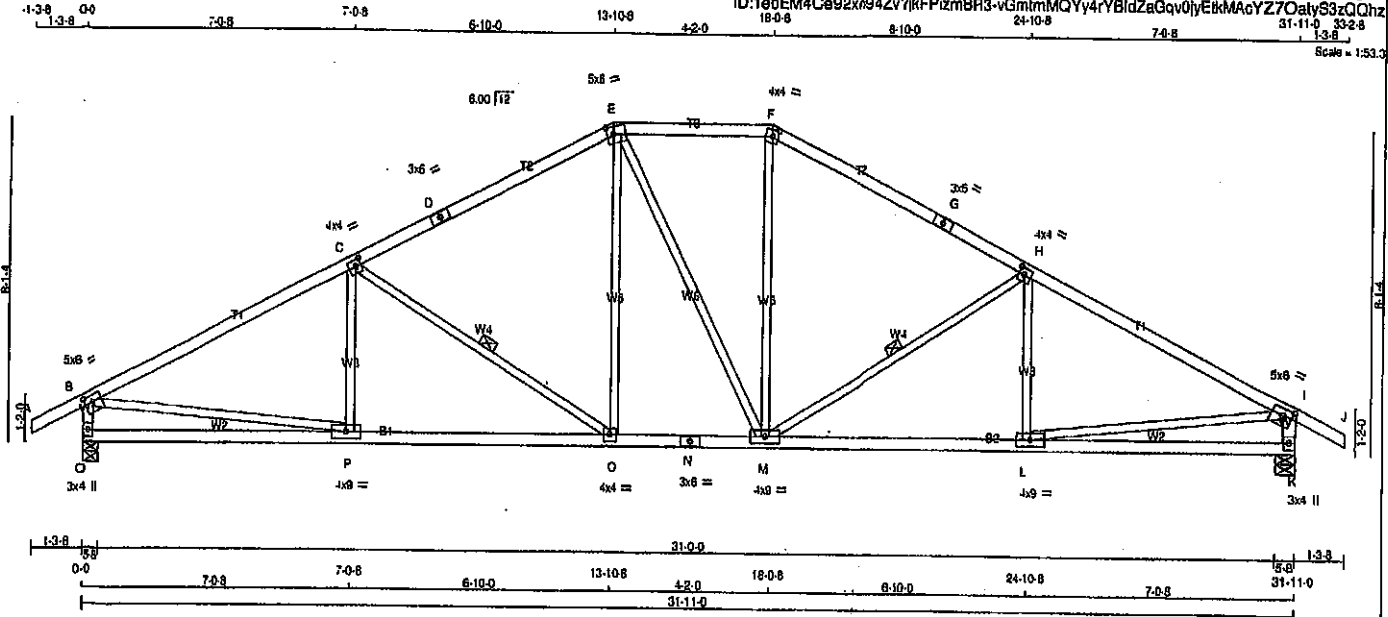
JSI METAL = 0.74 (P) (INPUT = 1.00)



JOB NAME 408130	TRUSS NAME T25	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:1ebEM4Ce92x94Zv7kFPizmBR3-vGmImMQYy4rYBldZaGqv0jYEkMacYZ7OatyS3zQQhz
31-11-0 53-2-8
13-3-1
Scale = 1:53.0



TOTAL WEIGHT = 2 x 131 = 263 lb

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	GROSS REACTION	DOWN	VERT	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
Q	1884	0	1884	0	0	5-8	5-8	5-8	5-8
K	1884	0	1884	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LOASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
Q	1330	888 / 0	0 / 0	0 / 0	444 0
K	1330	888 / 0	0 / 0	0 / 0	444 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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 C-O, H-M.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (FT)
FR-TO			
A-B	0 / 28	-91.8	10.00
B-C	-2587 / 0	-91.8	3.47
C-D	-2013 / 0	-91.8	3.97
D-E	-2013 / 0	-91.8	3.97
E-F	-1775 / 0	-91.8	4.79
F-G	-2013 / 0	-91.8	3.97
G-H	-2013 / 0	-91.8	3.97
H-I	-2587 / 0	-91.8	3.47
I-J	0 / 28	-91.8	10.00
Q-B	-1830 / 0	0.0	6.19
K-I	-1830 / 0	0.0	6.19
Q-P	0 / 0	-18.5	10.00
P-O	0 / 2344	-18.5	10.00
O-N	0 / 1774	-18.5	10.00
N-M	0 / 1774	-18.5	10.00
M-L	0 / 2344	-18.5	10.00
L-K	0 / 0	-18.5	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. CO

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

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

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

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

ALLOWABLE DEFL.(LL) = L/380 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.78/1.00 (B-C:1), BC=0.48/1.00 (O-P:1), WB=0.53/1.00 (B-P:1), SS=0.29/1.00 (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

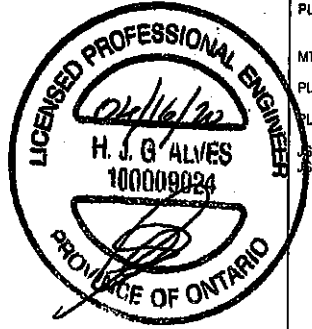
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

GRIP = 0.89 (B) (INPUT = 0.90)
METAL = 0.70 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006320

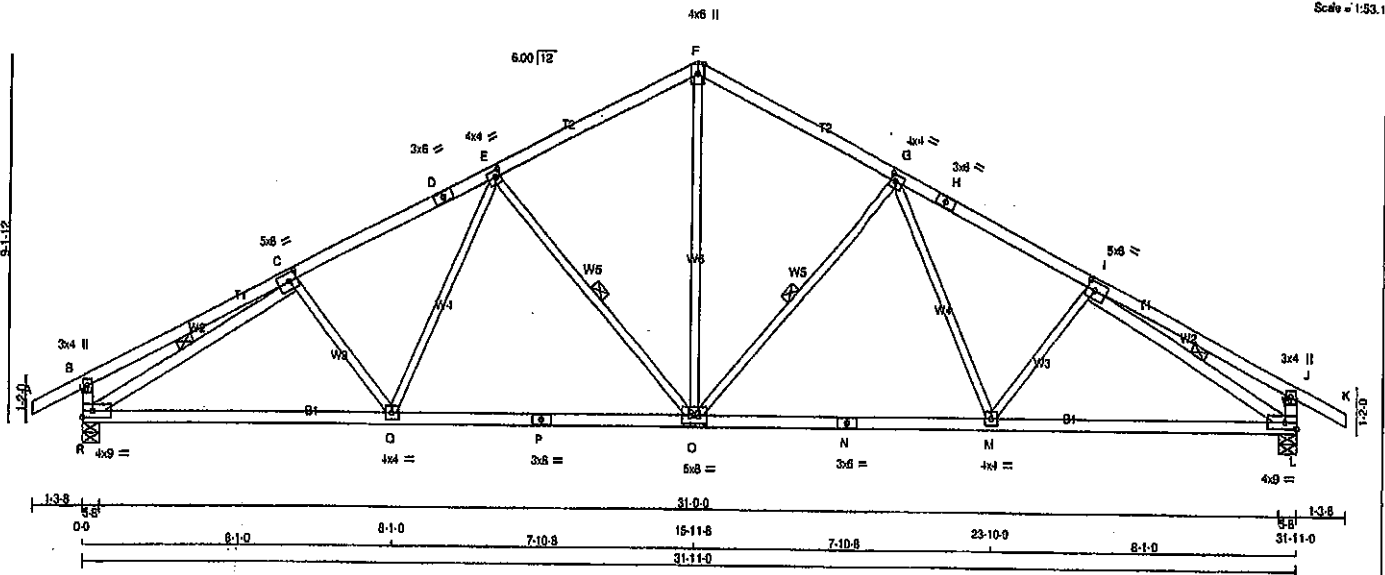
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408130	T26	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:1ebEM4Ce92xn94Zv7kFPzmBR3-NSKF_jRAjOzPpSC/8zL8YxUW27yL7WQdEcW_WzQQhy

1-3.8 0.0 5-5.8 5-5.8 5-3.0 10-8.8 5-3.0 15-11.8 21-2.8 5-3.0 26-5.8 5-5.8 31-11.0 33-2.8 1-3.8
Scale = 1:50.1



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	W	LEN	Y	X
JT TYPE				
B TMV+p	MT20	3.0	4.0	
C TMWW+1	MT20	5.0	8.0	2.50 2.50
D TS-1	MT20	3.0	6.0	
E TMWW+1	MT20	4.0	4.0	2.00 1.50
F TTW+p	MT20	4.0	8.0	Edge
G TMWW+1	MT20	4.0	4.0	2.00 1.50
H TS-1	MT20	3.0	8.0	
I TMWW+1	MT20	5.0	8.0	2.50 2.50
J TMV+p	MT20	3.0	4.0	
L BMVW+1	MT20	4.0	9.0	Edge
M BMVW+1	MT20	4.0	4.0	
N BS-1	MT20	3.0	8.0	
O BMVW+1	MT20	5.0	8.0	
P BS-1	MT20	3.0	8.0	
Q BMVW+1	MT20	4.0	4.0	
R BMVW+1	MT20	4.0	9.0	Edge

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

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	JT VERT	IN-SX	IN-SX
R 1884 0	1884 0	5-8	5-8
L 1884 0	1884 0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	DEAD	SOIL
JT COMBINED	SNOW LIVE PERM. LIVE WIND		
R 1330 888/0	0/0	0/0	444 0
L 1330 888/0	0/0	0/0	444 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.11 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-O, E-O, G-R, H-L.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (PLF)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO						FR-TO			
A-B	0.28	-91.8	-91.8	0.12 (1)	10.00	O-F	0.1211	0.27 (1)	
B-C	0.20	-91.8	-91.8	0.33 (1)	10.00	O-G	-701 0	0.32 (1)	
C-D	-2428.0	-91.8	-91.8	0.37 (1)	4.11	G-M	0.312	0.07 (1)	
D-E	-2428.0	-91.8	-91.8	0.37 (1)	4.11	M-I	-155 21	0.05 (1)	
E-F	-1808.0	-91.8	-91.8	0.34 (1)	4.65	E-O	-701 0	0.32 (1)	
F-G	-1808.0	-91.8	-91.8	0.34 (1)	4.65	Q-E	0 312	0.07 (1)	
G-H	-2428.0	-91.8	-91.8	0.37 (1)	4.11	C-Q	-155 21	0.05 (1)	
H-I	-2428.0	-91.8	-91.8	0.37 (1)	4.11	R-C	-2717 0	0.55 (1)	
I-J	0.20	-91.8	-91.8	0.12 (1)	10.00	I-L	-2717 0	0.55 (1)	
J-K	0.28	-91.8	-91.8	0.12 (1)	10.00				
R-B	-325 0	0.0	0.0	0.03 (1)	7.81				
L-J	-325 0	0.0	0.0	0.03 (1)	7.81				
R-O	0.2288	-18.5	-18.5	0.51 (1)	10.00				
O-P	0.2051	-18.5	-18.5	0.48 (1)	10.00				
P-O	0.2051	-18.5	-18.5	0.48 (1)	10.00				
O-N	0.2051	-18.5	-18.5	0.48 (1)	10.00				
N-M	0.2051	-18.5	-18.5	0.48 (1)	10.00				
M-L	0.2268	-18.5	-18.5	0.51 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPC 2011, 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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.37/1.00 (G-I), BC=0.51/1.00 (L-M), WB=0.55/1.00 (I-L), SSI=0.20/1.00 (I-L)

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.

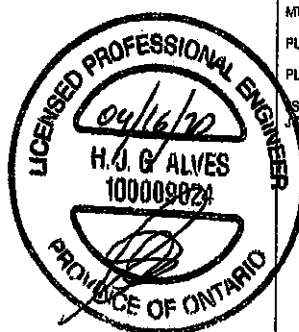
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1887 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

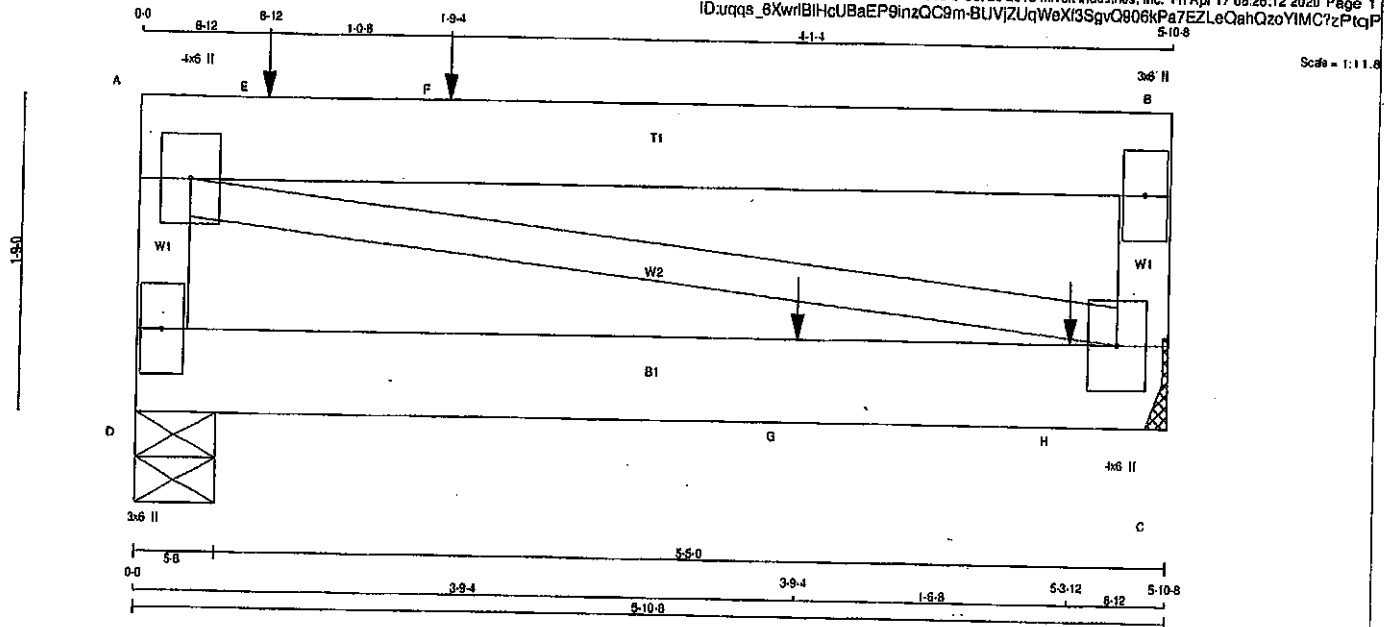
PLATE ROTATION TOL. = 6.0 Deg.

SI GRIP= 0.85 (I) (INPUT = 0.80)
SI METAL= 0.70 (P) (INPUT = 1.00)



Structural component only
DWG# T-2006321

JOB NAME 408188	TRUSS NAME T30	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Rod Truss, Burlington		Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 09:26:12 2020 Page 1			
ID:uqqs_6XwrlBIHcUBaEP9inzQC9m-BUVjZUqWxI3SgvQ806kPa7EZLeQahQzoYIMC7zP1qP		5-10-8			



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

ALL WEBS 2x3 DRY No.2 SPF

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	
B	TMV+p	MT20	3.0	6.0	
C	BMVW1+p	MT20	4.0	6.0	
D	BMV1+p	MT20	3.0	6.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
D	1419	0	1419	0	5-8	5-8
C	1668	0	1668	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	SNOW	MAX. MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	999	880 / 0	0 / 0	0 / 0	0 / 0	319 / 0	0 / 0
C	1173	807 / 0	0 / 0	0 / 0	0 / 0	366 / 0	0 / 0

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

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)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)			
FR-TO		FR-TO			FR-TO					
D-A	-1054 / 0	0.0	0.0	0.05 (1)	7.81	A-C	0.0 (1)			
A-E	0 / 0	-91.8	-91.8	0.50 (1)	10.00					
E-F	0 / 0	-91.8	-91.8	0.50 (1)	10.00					
F-B	0 / 0	-91.8	-91.8	0.50 (1)	10.00					
C-B	-565 / 0	0.0	0.0	0.03 (1)	7.81					
D-G	0 / 0	-18.5	-18.5	0.42 (1)	10.00					
G-H	0 / 0	-18.5	-18.5	0.42 (1)	10.00					
H-C	0 / 0	-18.5	-18.5	0.42 (1)	10.00					

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	8-12	-211	-211	---	TOP	VERT	TOTAL	---	C1
F	1-9-4	-880	-880	---	TOP	VERT	TOTAL	---	C1
G	3-9-4	-682	-682	---	FRONT	VERT	TOTAL	---	C1
H	5-3-12	-688	-688	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. 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 088-08, 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) = U/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = U/732 (0.10")

CSI: TC=0.50/1.00 (A-B:1), BC=0.42/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SSI=0.34/1.00 (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

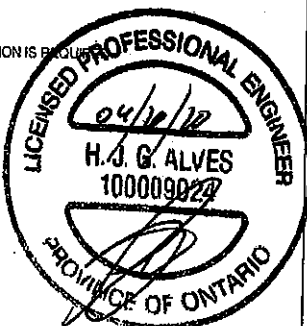
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

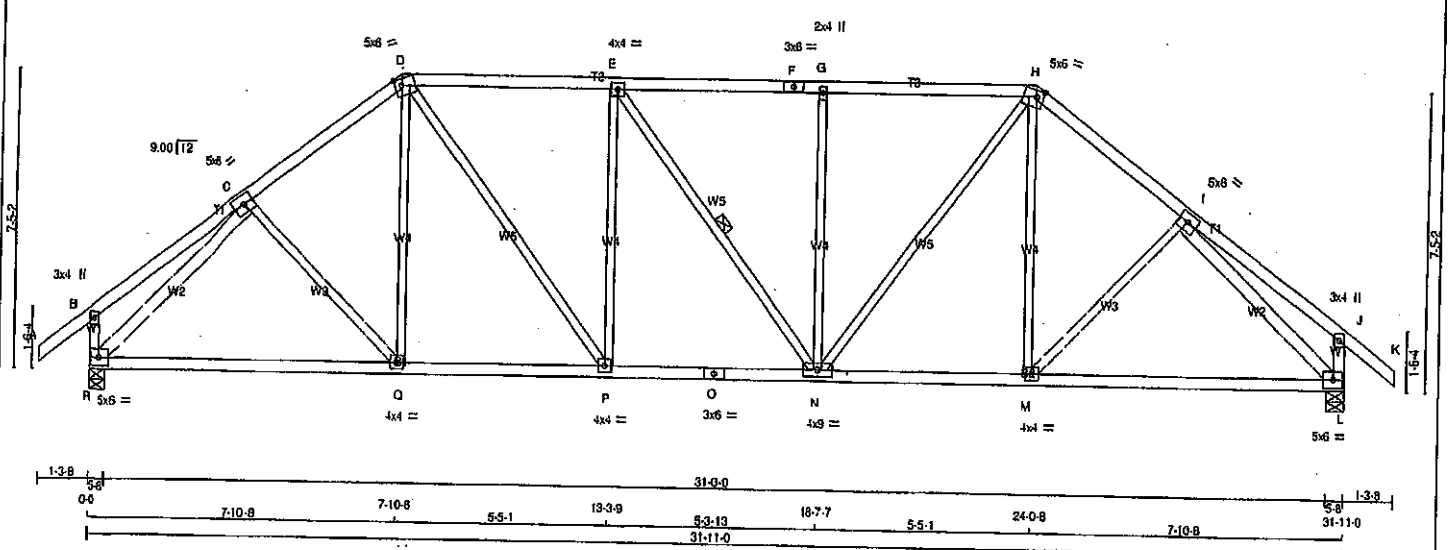
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (A) (INPUT = 0.90)
JSI METAL= 0.07 (D) (INPUT = 1.00)



Structural component only
DWG# T-2006441

JOB NAME 408188	TRUSS NAME T32	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Pool Truss, Burlington						
Version 6.310 8 Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:13 2020 Page 1 ID:uqas_6XwrlBIHcUBaEP9inzQC9m-fh36mq9Pmv3pTcijdzyfIP5k?EJys71C1wkSzPttQO 18-7-7 5-8-1 24-0-8 31-10-0 27-10-8 31-11-0 33-2-8 Scale = 1:52.8						



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

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	5.0
D	TTWW-m	MT20	5.0	8.0 2.00 2.00
E	TMWW-I	MT20	4.0	4.0
F	TS-I	MT20	3.0	6.0
G	TMW+w	MT20	2.0	4.0
H	TTWW-m	MT20	5.0	8.0 2.00 2.00
I	TMWW-I	MT20	5.0	6.0
J	TMV+p	MT20	3.0	4.0
L	BMWW-I	MT20	5.0	6.0
M, P, Q				
M	BMWW-I	MT20	4.0	4.0
N	BMWW-I	MT20	4.0	9.0
O	BS-I	MT20	3.0	6.0
R	BMWW-I	MT20	5.0	8.0

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
R	1888	0	1888	0	5.8	5.8	5.8
L	1888	0	1888	0	5.8	5.8	5.8

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
R	1331	887.0	0.0	0.0	0.0
L	1331	887.0	0.0	0.0	0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.34 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD LC1	MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX	UNBRAC
FR-TO					LENGTH	FR-TO			
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00	C-Q	0.52	0.02 (4)	
B-C	0.24	-91.8	-91.8	0.22 (1)	10.00	Q-D	0.149	0.05 (4)	
C-D	-1878.0	-91.8	-91.8	0.29 (1)	4.82	D-P	0.777	0.17 (1)	
D-E	-1953.0	-91.8	-91.8	0.45 (1)	4.34	P-E	-533.0	0.53 (1)	
E-F	-1951.0	-91.8	-91.8	0.45 (1)	4.34	E-N	-3.0	0.00 (1)	
F-G	-1951.0	-91.8	-91.8	0.45 (1)	4.34	N-G	-532.0	0.53 (1)	
G-H	-1951.0	-91.8	-91.8	0.45 (1)	4.35	N-H	0.774	0.17 (1)	
H-I	-1878.0	-91.8	-91.8	0.29 (1)	4.62	M-H	0.150	0.05 (4)	
I-J	0.24	-91.8	-91.8	0.22 (1)	10.00	M-I	0.52	0.02 (4)	
J-K	0.38	-91.8	-91.8	0.12 (1)	10.00	R-C	-2149.0	0.82 (1)	
R-B	-266.0	0.0	0.0	0.03 (1)	7.81	I-L	-2149.0	0.82 (1)	
L-J	-266.0	0.0	0.0	0.03 (1)	7.81				
R-O	0.1479	-18.5	-18.5	0.38 (1)	10.00				
O-P	0.1482	-18.5	-18.5	0.38 (1)	10.00				
P-Q	0.1953	-18.5	-18.5	0.37 (1)	10.00				
O-N	0.1953	-18.5	-18.5	0.37 (1)	10.00				
N-M	0.1482	-18.5	-18.5	0.38 (1)	10.00				
M-L	0.1479	-18.5	-18.5	0.38 (1)	10.00				

TOTAL WEIGHT = 2 X 148 = 296 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 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/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 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 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.45/1.00 (D-E:1), BC=0.38/1.00 (M-N:1), WB=0.82/1.00 (I-L:1), SSI=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

AUTOSOLVE HEELS OFF

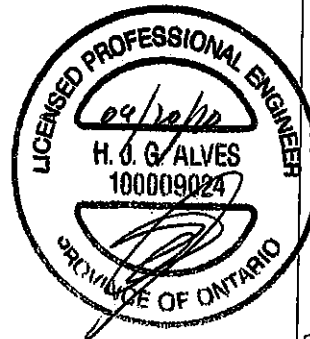
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.89 (I) (INPUT = 0.90)
SI METAL= 0.66 (O) (INPUT = 1.00)



Structural component only
DWG# T-2006442

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Fri Apr 17 08:26:15 2020 Page 1
ID:uqqs_6XwIbIHCUbAE9IhzQC9m-b3BsBVlPxSt1dJ7d7qBfR1C1l9YhlnXZQUWW0oKzPtoM
-13-8 0-0 5-0-8 5-0-8 4-10-0 9-10-8 6-1-0 15-11-8 6-1-0 22-0-8 31-11-0 33-2-8 4-10-0 28-10-8 5-0-8 1-3-8
Scale = 1:52.6



<u>BEARINGS</u>									
FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX		IN-SX	
R	1886	0	1886	0	0	5-8		5-8	
J	1886	0	1886	0	0	5-8		5-8	

<u>UNFACTORED REACTIONS</u>							
1ST CASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1331	887 : 0	0 : 0	0 : 0	0 : 0	444 : 0	0 : 0
J	1331	887 : 0	0 : 0	0 : 0	0 : 0	444 : 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 = 4.53 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

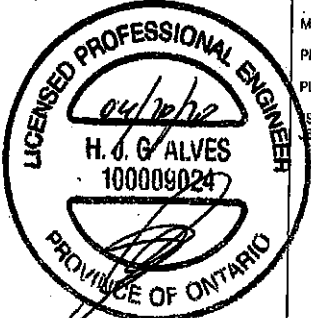
1 LATERAL BRACE(S) AT 1/2 LENGTH OF E.N.

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

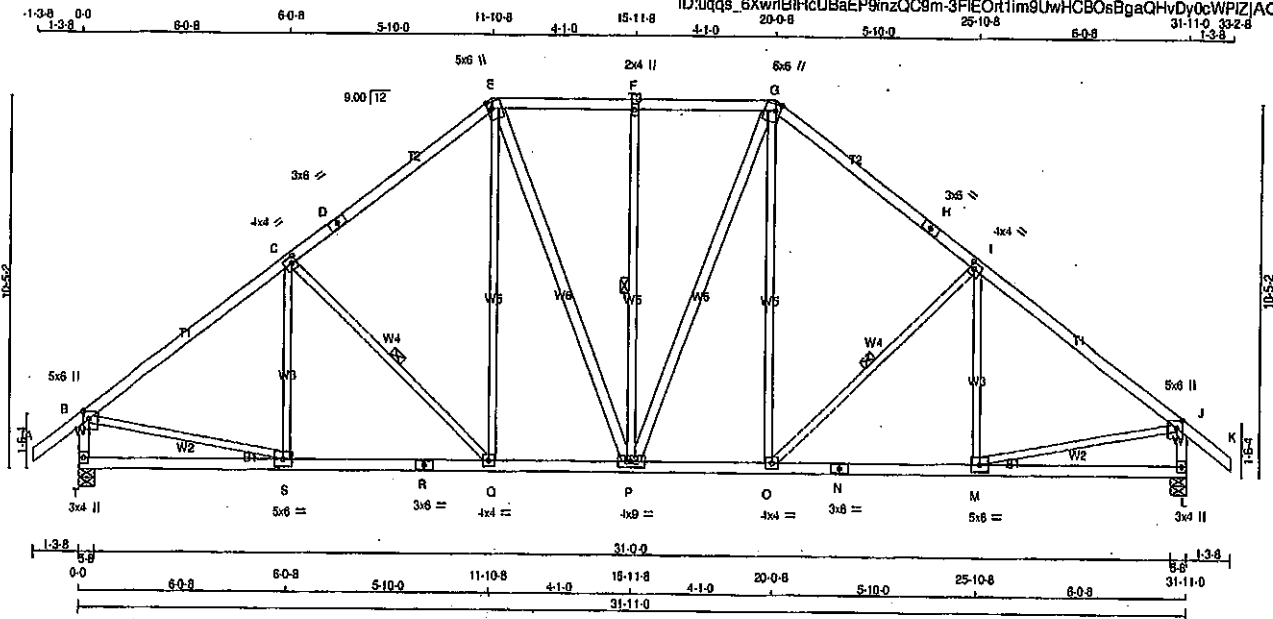
LOADING
TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0.38	-91.8 -91.8	0.12 (1)	10.00	Q-C	-274.0	0.11 (1)		
B-C	-1920.0	-91.8 -91.8	0.35 (1)	4.53	C-P	-238.0	0.22 (1)		
C-D	-1720.0								

D-E	-1680 0	-91.8	-91.8	0.33 (1)	4.88	P-D	0 270	0.06 (1)
E-F	-1680 0	-91.8	-91.8	0.48 (1)	4.57	D-N	0 498	0.08 (1)
F-G	-1680 0	-91.8	-91.8	0.48 (1)	4.57	N-E	-984 0	0.35 (1)
G-H	-1780 0	-91.8	-91.8	0.33 (1)	4.88	N-F	0 488	0.08 (1)
H-I	-1920 0	-91.8	-91.8	0.35 (1)	4.53	L-F	0 270	0.06 (1)
I-J	0 38	-91.8	-91.8	0.12 (1)	10.00	L-G	-236 0	0.22 (1)
R-B	-1845 0	0.0	0.0	0.19 (1)	5.16	K-G	-274 0	0.11 (1)
J-H	-1845 0	0.0	0.0	0.19 (1)	5.16	B-Q	0 1804	0.36 (1)
						K-H	0 1604	0.36 (1)
R-Q	0 0	-18.5	-18.5	0.10 (4)	10.00			
Q-P	0 1561	-18.5	-18.5	0.31 (1)	10.00			
P-O	0 1398	-18.5	-18.5	0.30 (1)	10.00			
O-N	0 1398	-18.5	-18.5	0.30 (1)	10.00			
N-M	0 1398	-18.5	-18.5	0.30 (1)	10.00			
M-L	0 1398	-18.5	-18.5	0.30 (1)	10.00			
L-K	0 1561	-18.5	-18.5	0.31 (1)	10.00			
K-J	0 0	-18.5	-18.5	0.31 (1)	10.00			



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T34	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:28:18 2020 Page 1					
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31-11-0 33-2-8					
Scale = 1:50.0					



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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
B TMVW+p	MT20	5.0	6.0	2.50 2.00
C TMVW-t	MT20	4.0	4.0	2.00 1.50
D TS-t	MT20	3.0	6.0	
E TTWW+m	MT20	5.0	6.0	2.25 1.50
F TMVW-w	MT20	2.0	4.0	
G TTWW+m	MT20	5.0	6.0	2.25 1.50
H TS-t	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	2.50 2.00
L BMV1+p	MT20	3.0	4.0	
M BMVW-t	MT20	5.0	6.0	
N BS-t	MT20	3.0	6.0	
O BMVW-t	MT20	4.0	4.0	
P BMVWW-t	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 BMV1+p	MT20	3.0	4.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
T	1888	0	1888	0
L	1888	0	1888	0

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	
T	1331	887	0	0	0
L	1331	887	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 = 4.30 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING	CHORDS	WEBS
TOTAL LOAD CASES: (4)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
	VERT. LOAD LC1 MAX (PLF)	MAX. UNBRACED LENGTH (FT)
	CS1 (LC)	CS1 (LC)
FR-TO	FROM TO	FR-TO
A-B	0/38	S-C
B-C	-1942/0	C-Q
C-D	-1884/0	Q-E
D-E	-1684/0	E-P
E-F	-1404/0	P-F
F-G	-1404/0	G-H
G-H	-1884/0	H-I
H-I	-1684/0	I-J
I-J	-1942/0	J-K
J-K	0/38	K-L
K-L	-1840/0	L-M
L-M	-1840/0	

T-S	0/0	-18.5	-18.5	0.16 (4)	10.00
S-R	0/1888	-18.5	-18.5	0.34 (1)	10.00
R-Q	0/1585	-18.5	-18.5	0.34 (1)	10.00
Q-P	0/1301	-18.5	-18.5	0.28 (1)	10.00
P-O	0/1301	-18.5	-18.5	0.28 (1)	10.00
O-N	0/1585	-18.5	-18.5	0.34 (1)	10.00
N-M	0/1585	-18.5	-18.5	0.34 (1)	10.00
M-L	0/0	-18.5	-18.5	0.16 (4)	10.00

TOTAL WEIGHT = 2 X 165 = 331 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, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/899 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CS1: TC=0.53/1.00 (B-C:1), BC=0.34/1.00 (Q-S:1),
WB=0.38/1.00 (J-M:1), SS1=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

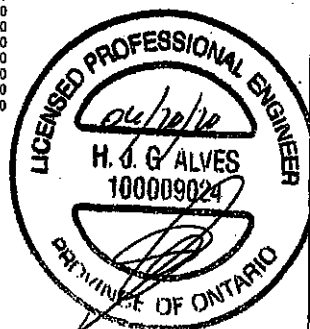
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

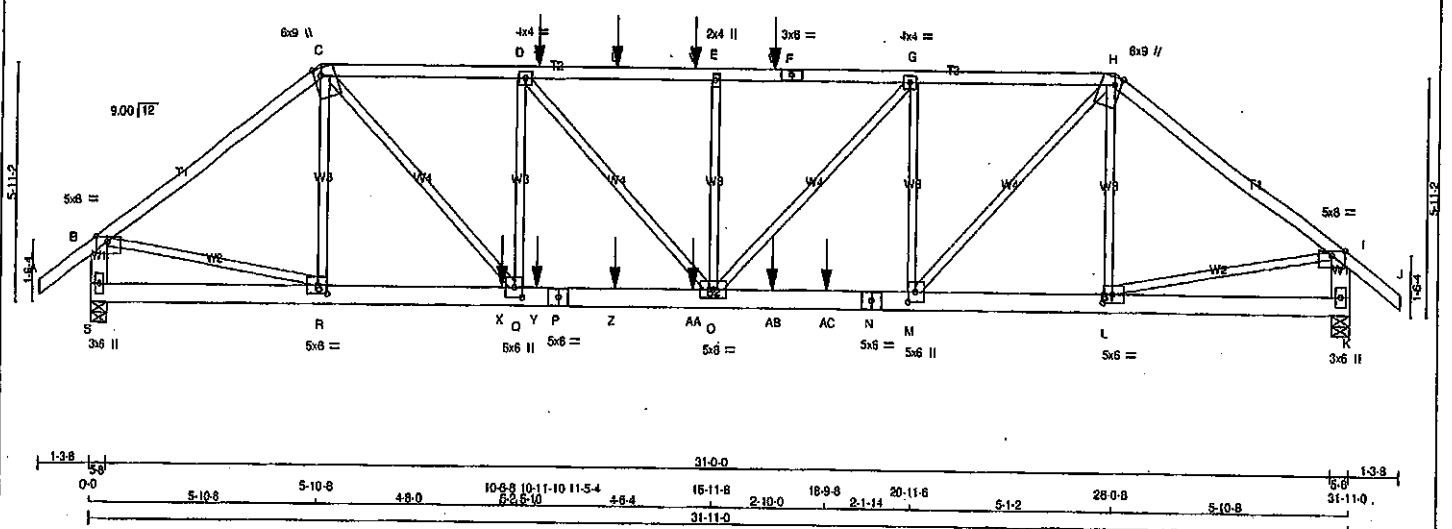
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.52 (R) (INPUT = 1.00)



Structural component only
DWG# T-2006444



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
S - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
S - P	2x8	DRY	No.2	SPF
P - N	2x8	DRY	No.2	SPF
N - K	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

CHORD	SIZE	SPACING (IN)	LOAD (PLF)
A - C	12	12	TOP SIDE(0.0)
C - F	12	12	TOP
F - H	12	12	TOP
H - J	12	12	TOP
S - B	12	12	TOP
K - I	12	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS			
S - P	12	12	SIDE(0.0)
P - N	12	12	SIDE(0.0)
N - K	12	12	TOP

WEBS: (0.122"x3") SPIRAL NAILS

WEBS	SIZE	SPACING (IN)	LOAD (PLF)
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
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TTWW-m	MT20	6.0	9.0	Edge 2.00	
D	TMVW-i	MT20	4.0	4.0		
E	TMVW-w	MT20	2.0	4.0		
F	TS-i	MT20	3.0	6.0		
G	TMVW-i	MT20	4.0	4.0		
H	TTWW-m	MT20	6.0	9.0	Edge 2.00	
I	TMVW-p	MT20	5.0	8.0	Edge	
J	BMVW-p	MT20	3.0	6.0		
L	BMVW-i	MT20	5.0	6.0	2.50 2.75	
M	BMVW-w	MT20	5.0	6.0	3.00 2.25	
N	BS-i	MT20	5.0	6.0		
O	BMVW-w	MT20	5.0	8.0		
P	BS-i	MT20	5.0	6.0		
Q	BMVW-i	MT20	5.0	8.0	3.00 2.25	
R	BMVW-i	MT20	5.0	6.0	2.50 2.75	
S	BMVW-p	MT20	3.0	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	DOWN	IN-SX	IN-SX
S	3971	3971	5-8	5-8
K	3551	3551	5-8	5-8

UNFACTORED REACTIONS

	1ST LOOSE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	2798	1896	0	0	0	0	902	0
S	2503	1693	0	0	0	0	810	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 = 3.39 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0/38	-91.8	10.00	R-C	-424	0	0.11 (1)
B-C	-4732/0	-91.8	10.00	C-Q	0	3913	0.47 (1)
C-D	-6354/0	-91.8	10.00	Q-D	-1192/0	0	0.31 (1)
D-T	-6738/0	-91.8	10.00	D-O	0	571	0.07 (1)
T-U	-6738/0	-91.8	10.00	O-E	-867	0	0.23 (1)
U-V	-6738/0	-91.8	10.00	E-G	0	1542	0.19 (1)
V-E	-6738/0	-91.8	10.00	M-G	-1671	0	0.44 (1)
E-W	-6738/0	-91.8	10.00	M-H	0	3581	0.44 (1)
W-F	-6738/0	-91.8	10.00	L-H	-432	0	0.16 (1)
F-G	-6738/0	-91.8	10.00	B-R	0	3844	0.48 (1)
G-H	-5705/0	-91.8	10.00	L-I	0	3948	0.41 (1)
H-I	-4121/0	-91.8	10.00				
I-J	0/38	-91.8	10.00				
S-B	-3944/0	0.0	7.14				
K-I	-3486/0	0.0	7.49				
S-R	0/0	-18.5	10.00				
R-X	0/3772	-18.5	10.00				
X-Q	0/3772	-18.5	10.00				
Q-Y	0/8354	-18.5	10.00				
Y-P	0/8354	-18.5	10.00				
P-Z	0/8354	-18.5	10.00				
Z-AA	0/8354	-18.5	10.00				
AA-O	0/8354	-18.5	10.00				
O-AB	0/5705	-18.5	10.00				
AB-AC	0/5705	-18.5	10.00				
AC-N	0/5705	-18.5	10.00				
N-M	0/5705	-18.5	10.00				
M-L	0/3280	-18.5	10.00				
L-K	0/0	-18.5	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
T	11-5-4	-178	-178		BACK	VERT	TOTAL		C1
U	13-5-4	-178	-178		BACK	VERT	TOTAL		C1
V	15-5-4	-178	-178		BACK	VERT	TOTAL		C1
W	17-5-4	-178	-178		BACK	VERT	TOTAL		C1
X	19-5-4	-1649	-1649		BACK	VERT	TOTAL		C1
Y	11-5-4	-36	-36		BACK	VERT	TOTAL		C1
Z	13-5-4	-36	-36		BACK	VERT	TOTAL		C1
AA	15-5-4	-36	-36		BACK	VERT	TOTAL		C1
AB	17-5-4	-36	-36		BACK	VERT	TOTAL		C1
AC	19-5-4	-1247	-1247		BACK	VERT	TOTAL		C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 8.0 PSF

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

(65 % OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")

CALCULATED VERT. DEFL.(LL) = L/999 (0.18")

ALLOWABLE DEFL.(TL) = L/360 (1.06")

CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.55/1.00 (B-C:1), BC=0.61/1.00 (M-O:1), WB=0.48/1.00 (B-R:1), SS=0.51/1.00 (Q-R:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 789 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

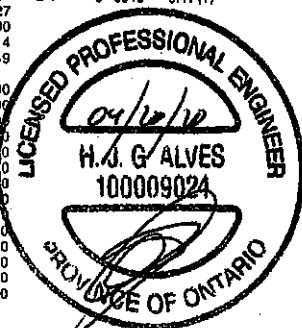
PLATE ROTATION TOL = 5.0 Deg.

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

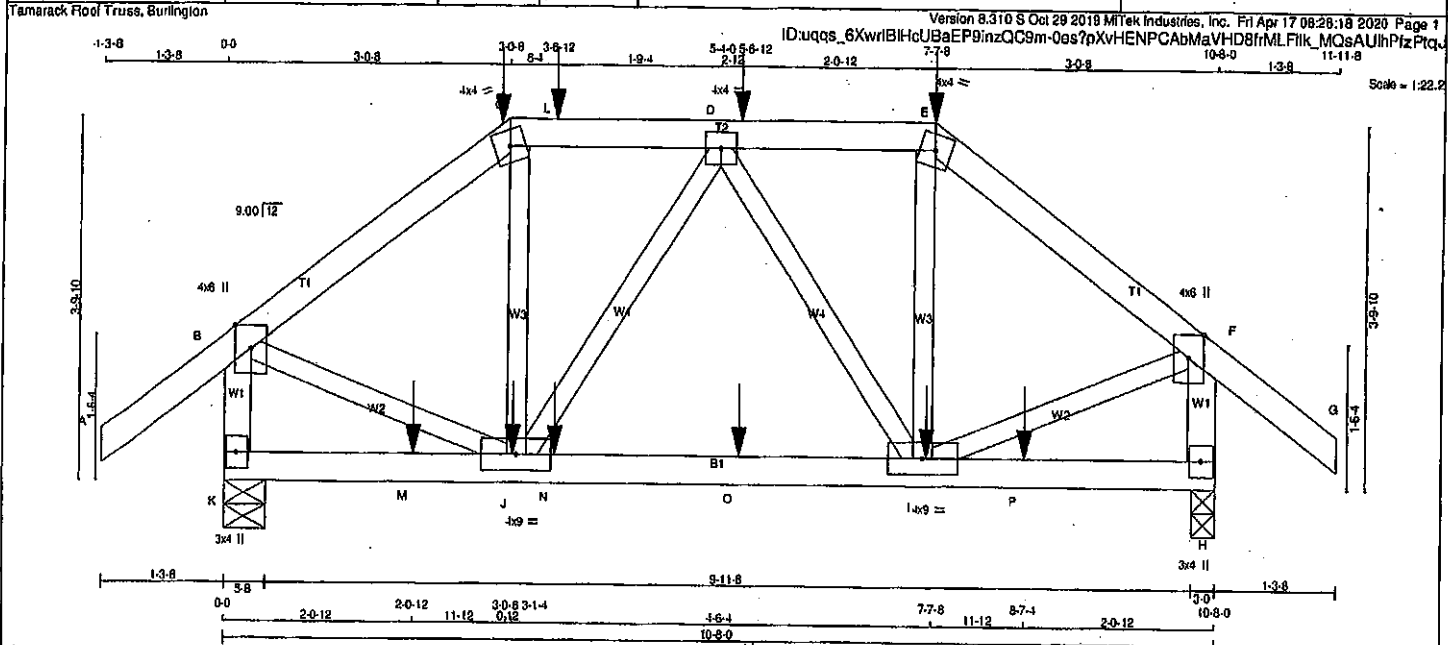
JSI METAL= 0.83 (N) (INPUT = 1.00)

Structural component only

DWG# T-2006445



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T36	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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

PLATES (tablets in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	6.0 Edge
C	TTW-m	MT20	4.0	4.0
D	TMVW-l	MT20	4.0	4.0
E	TTW-m	MT20	4.0	4.0
F	TMVW+p	MT20	4.0	6.0 Edge
H	BMV1+p	MT20	3.0	4.0
I	BMVWW-l	MT20	4.0	9.0
J	BMVWW-l	MT20	4.0	9.0
K	BMV1+p	MT20	3.0	4.0

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
K	977	0	977	0	0	5-8	5-8	5-8	5-8
H	951	0	951	0	0	3-0	3-0	3-0	3-0

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
K	888	469.0	0.0	0.0	219.0
H	670	458.0	0.0	0.0	214.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0.38	J-C	0.66
B-C	-759.0	I-E	0.71
C-L	-806.0	B-J	0.648
L-D	-806.0	I-F	0.623
D-E	-584.0	J-D	-165.0
E-F	-730.0	D-I	-207.0
F-G	0.38		
K-B	-983.0		
H-F	-927.0		
K-M	0.0		
M-J	0.0		
J-N	0.694		
N-O	0.694		
O-I	0.694		
I-P	0.0		
P-H	0.0		

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIRL		TYPE		HEEL		CONN.	
JT	LOC.	LOC1	MAX.	MAX.	FACE	DIRL	TYPE	HEEL	CONN.		
C	3-0-8	-162	-162		BACK	VERT	TOTAL		C1		
D	5-6-12	-48	-48		BACK	VERT	TOTAL		C1		
E	7-7-8	-162	-162		BACK	VERT	TOTAL		C1		
I	7-6-12	-10	-10		BACK	VERT	TOTAL		C1		
J	3-1-4	-10	-10		BACK	VERT	TOTAL		C1		
L	3-6-12	-70	-70		BACK	VERT	TOTAL		C1		
M	2-0-12	-10	-10		BACK	VERT	TOTAL		C1		
N	3-6-12	-10	-10		BACK	VERT	TOTAL		C1		
O	5-6-12	-10	-10		BACK	VERT	TOTAL		C1		
P	8-7-4	-10	-10		BACK	VERT	TOTAL		C1		

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 49 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2015
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.38")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.17/1.00 (B-C:1), BC=0.17/1.00 (I-J:1), WB=0.18/1.00 (B-J:1), SS=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

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
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

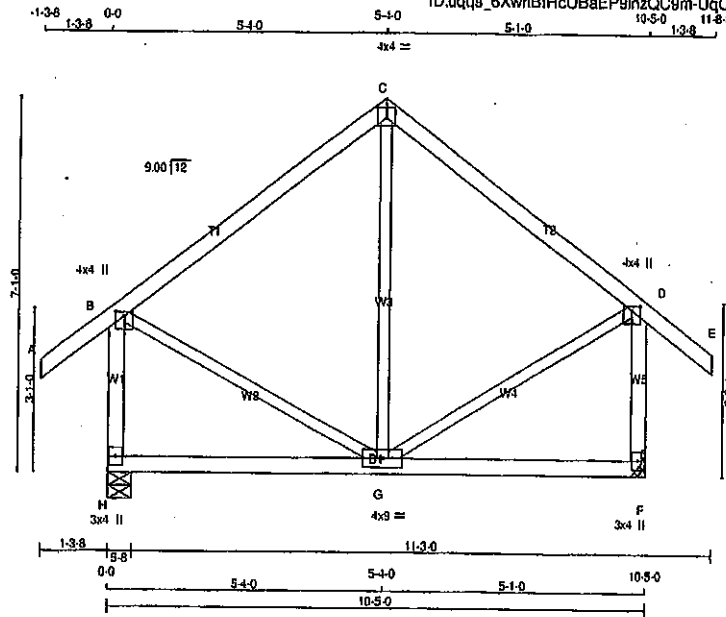
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (B) (INPUT = 0.90)
JSI METAL= 0.41 (F) (INPUT = 1.00)

Structural component only
DWG# T-2006446



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T37	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:26:19 2020 Page 1					
ID:uqqs_6XwrlBIHcUBaEP9inzQC9m-UqQN1twv?hX3nkxm3_kNC2vTR95JlqP?P8UEy5zPtqI					
Scale = 1:10.1					



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	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	2x3	DRY	No.2		
EXCEPT					

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMVW+p MT20	4.0	4.0	1.00	2.00
C TTW-p MT20	4.0	4.0	2.25	2.00
D TMVW+p MT20	4.0	4.0	1.00	2.00
F BMV+p MT20	3.0	4.0		
G BMWW+p MT20	4.0	9.0		
H BMV+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	GROSS REACTION	BRG	BRG
H	VERT	HORZ	DOWN	HORZ
F	701	0	701	0
F	701	0	701	0
			MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	493	337.0	0.0	0.0	0.0	0.0	156.0	0.0
F	493	337.0	0.0	0.0	0.0	0.0	156.0	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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MEMB.	MAX. FACTORED	WEBS	MAX. FACTORED	FORCE	MAX
FR-TO	(LBS)	(PLF)	CS1 (LC)	UNBRAC	LENGTH	FR-TO	(LBS)	CS1 (LC)	(LBS)		
A-B	0.738	-91.8	-91.8	0.12 (1)	10.00	G-C	-133	41	0.11 (1)		
B-C	-287.0	-91.8	-91.8	0.33 (1)	8.25	B-G	0	259	0.06 (1)		
C-D	-287.0	-91.8	-91.8	0.30 (1)	6.25	G-D	0	266	0.06 (1)		
D-E	0.738	-91.8	-91.8	0.12 (1)	10.00						
H-B	-663.0	0.0	0.0	0.11 (1)	7.81						
F-D	-663.0	0.0	0.0	0.12 (1)	7.81						
H-G	0.0	-18.5	-18.5	0.14 (4)	10.00						
G-F	0.0	-18.5	-18.5	0.14 (4)	10.00						

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, 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 (0.35")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.35")
CALCULATED VERT. DEFL. (TL) = L/999 (0.02")

CSI: TC=0.39/1.00 (B-C:1), BC=0.14/1.00 (F-G:4), WB=0.11/1.00 (G-G:1), 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

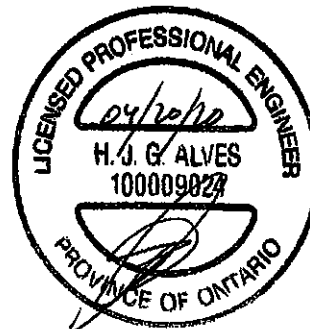
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

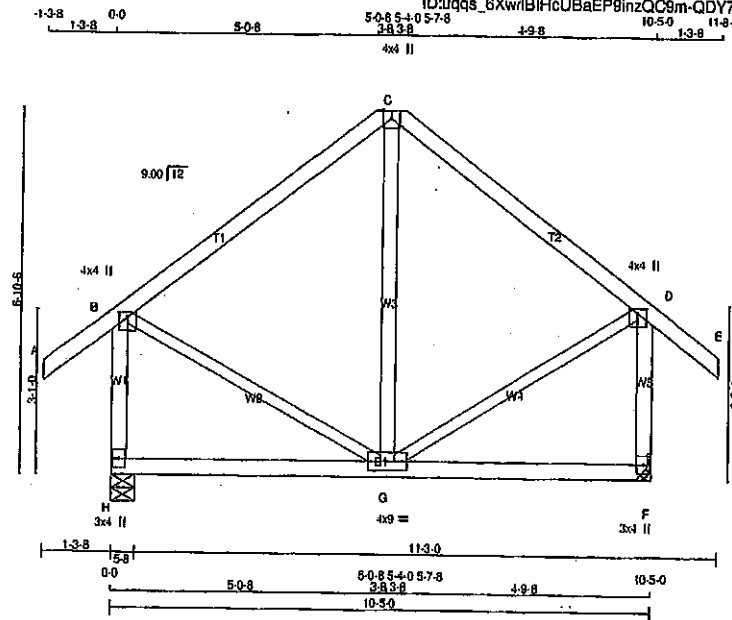
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.53 (B) (INPUT = 0.90)
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006447

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	T37CP	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2018 Mittek Industries, Inc. Fri Apr 17 08:26:21 2020 Page 1			
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		Scale = 1:39.9			



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	2x3	DRY	No.2
EXCEPT			
G - C	2x4	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	TMVW+p	MT20	4.0 4.0 Edge
D	TMVW+p	MT20	4.0 4.0 1.00 2.00
F	BMV1+p	MT20	3.0 4.0
G	BMVWV1	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	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
H	701	0	701	0	5-8
F	701	0	701	0	5-8

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
H	493	337.0	0.0	0.0	158.0	0.0
F	493	337.0	0.0	0.0	158.0	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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. CSI (LBS)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LBS)	MAX. CSI (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0.138	-91.8	-91.8 0.12 (1)	B-G	0.259	0.06 (1)	
B-C	-287.0	-91.8	-91.8 0.33 (1)	G-D	0.268	0.08 (1)	
C-D	-287.0	-91.8	-91.8 0.30 (1)	G-C	-133.41	0.08 (1)	
D-E	0.138	-91.8	-91.8 0.12 (1)				
H-B	-682.0	0.0	0.0 0.11 (1)				
F-D	-685.0	0.0	0.0 0.12 (1)				
H-G	0.0	-18.5	-18.5 0.14 (4)				
G-F	0.0	-18.5	-18.5 0.14 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOY CH. LL = 0.0 PSF
OL = 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 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 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.33/1.00 (B-C:1), BC=0.14/1.00 (G-H:4),
WB=0.08/1.00 (C-G:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

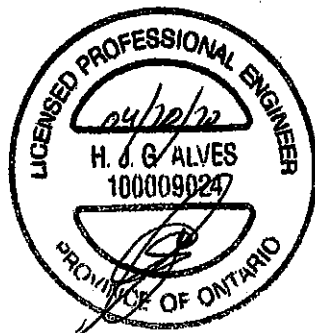
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1659

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.53 (B) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006448

Tamarack Roof Truss, Burlington.

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Fri Apr 17 08:28:22 2020 Page 1
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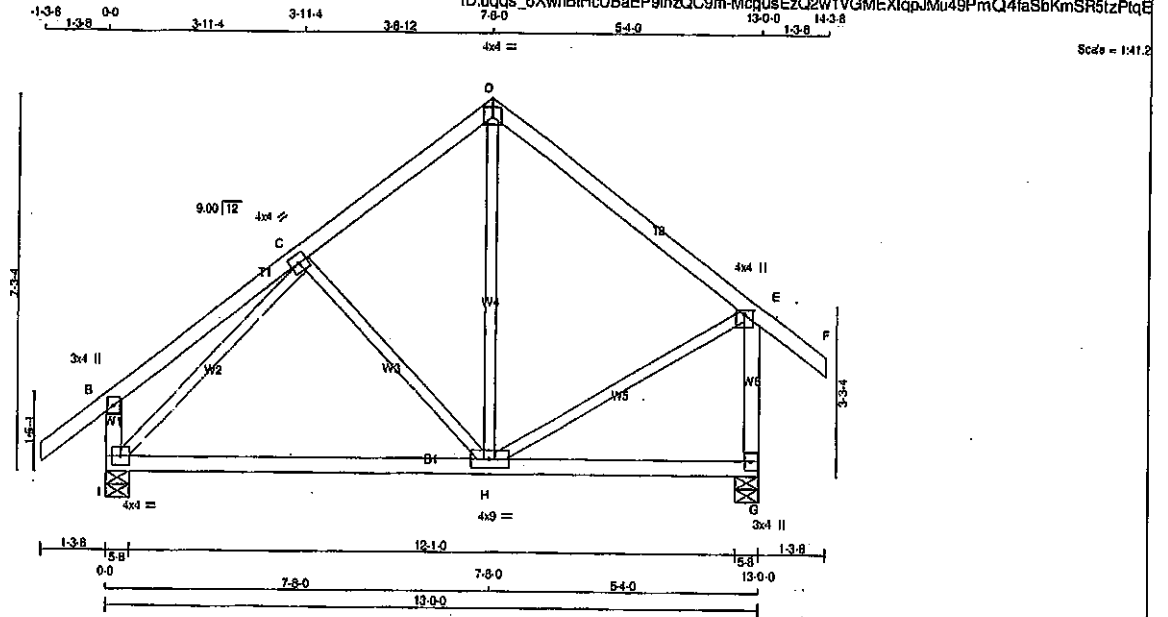
Structural component only
DWG# T-2006449



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408188	T39	5	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:28:23 2020 Page 1
ID:ugqs_6XwnBtHcUBaEP9lnzQC9m-McpgusEzQ2w1VGMEXlcpJMu49PmQ4faSbKmsR5tztPqE



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

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

DESCR.	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
SPF	VERT	DOWN	IN-SX	IN-SX
JT	843	843	5-8	5-8
I	843	843	5-8	5-8
G	843	843	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	594	403.0	0.0	0.0	0.0	191.0	0.0
G	594	403.0	0.0	0.0	0.0	191.0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS I, 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			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0:38	-91.8	-91.8	0.12 (1)	10.00	C-H	-228.0 0.12 (1)
B-C	0:25	-91.8	-91.8	0.22 (1)	10.00	H-D	0:129 0.04 (4)
C-D	-449.0	-91.8	-91.8	0.17 (1)	8.25	I-C	-722.0 0.37 (1)
D-E	-424.0	-91.8	-91.8	0.34 (1)	8.25	H-E	0:387 0.09 (1)
E-F	0:38	-91.8	-91.8	0.12 (1)	10.00		
I-B	-280.0	0.0	0.0	0.03 (1)	7.81		
G-E	-813.0	0.0	0.0	0.15 (1)	7.81		
I-H	0:495	-18.5	-18.5	0.28 (4)	10.00		
H-G	0:0	-18.5	-18.5	0.25 (4)	10.00		

TOTAL WEIGHT = 5 X 61 = 303 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, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/998 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/998 (0.09")

CS: TC=0.34/1.00 (D-E:1), BC=0.28/1.00 (H-I:4),
WB=0.37/1.00 (C-I:1), SS=0.15/1.00 (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

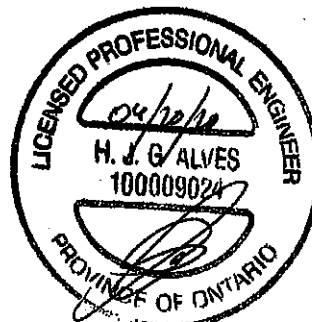
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSD) (PL) (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.

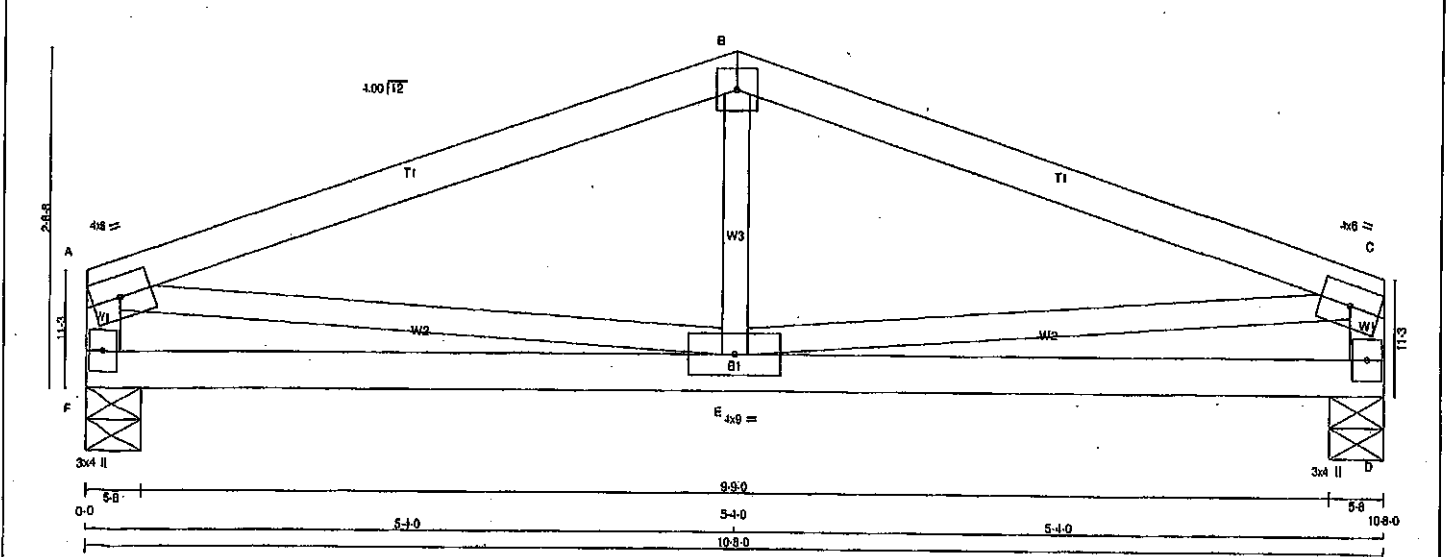
JSI GRIP = 0.88 (C) (INPUT = 0.90)
JSI METAL = 0.26 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006450

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408189	T51	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 M Tek Industries, Inc. File Apr 17 08:28:21 2020 Page 1
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 168-0
 Scale = 1:17.0



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMW-1	MT20	4.0	8.0
B	TTW-p	MT20	4.0	4.0
C	TMW-1	MT20	4.0	8.0
D	BMV1+p	MT20	3.0	4.0
E	BMVWW-1	MT20	4.0	9.0
F	BMV1+p	MT20	3.0	4.0

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
F	588 0	588 0	0 0	5-8	5-8
D	588 0	588 0	0 0	5-8	5-8

UNFACTORED REACTIONS

1ST LOASE		MAX. MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
F	416	273 0	0 0	0 0	0 0	143 0
D	416	273 0	0 0	0 0	0 0	143 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	-708 0	-91.8	-91.8 0.34 (1)	8.25	E-B	-42 77	0.03 (4)
B-C	-708 0	-91.8	-91.8 0.34 (1)	8.25	A-E	0 678	0.15 (1)
F-A	-548 0	0 0	0 0.05 (1)	7.81	E-C	0 678	0.15 (1)
D-C	-548 0	0 0	0 0.05 (1)	7.81			
F-E	0 0	-18.5	-18.5 0.14 (4)	10.00			
E-D	0 0	-18.5	-18.5 0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 25.6 PSF
 DL = 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, ORC 2012, ABC 2019
- PART 9 OF ORC 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 (0.36")
 CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
 ALLOWABLE DEFL. (TL) = L/360 (0.36")
 CALCULATED VERT. DEFL. (TL) = L/999 (0.04")

CSI: TC=0.34/1.00 (B-C:1), SC=0.14/1.00 (E-F:4),
 WB=0.15/1.00 (A-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

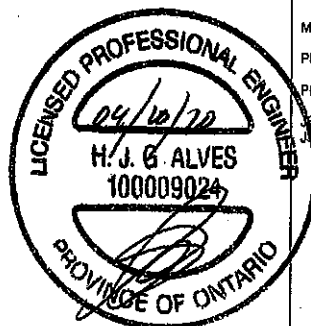
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PS) (PL) (PL)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1867 788 1987 1856

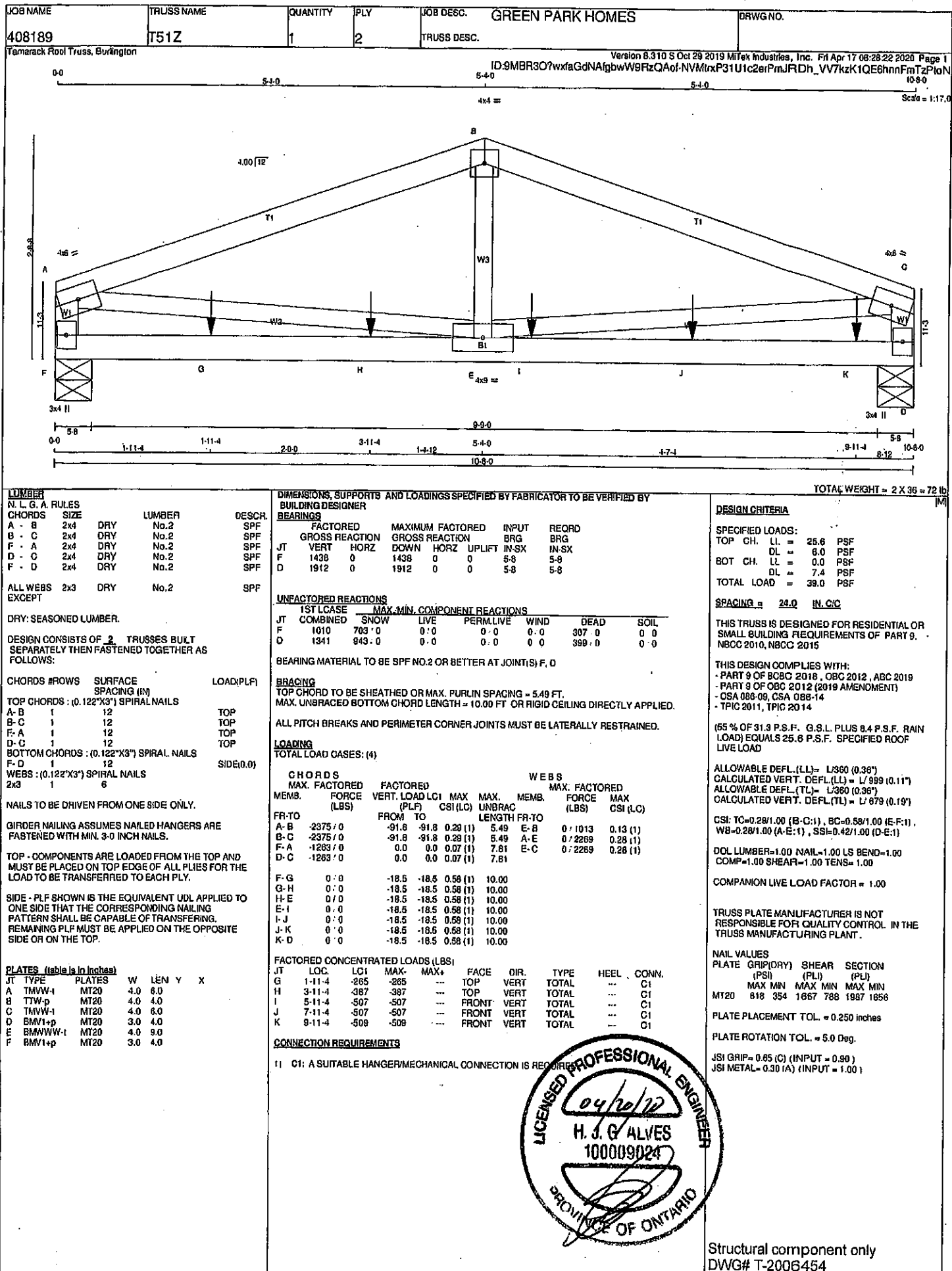
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.39 (C) (INPUT = 0.90)
 SI METAL= 0.19 (C) (INPUT = 1.00)



Structural component only
 DWG# T-2006453

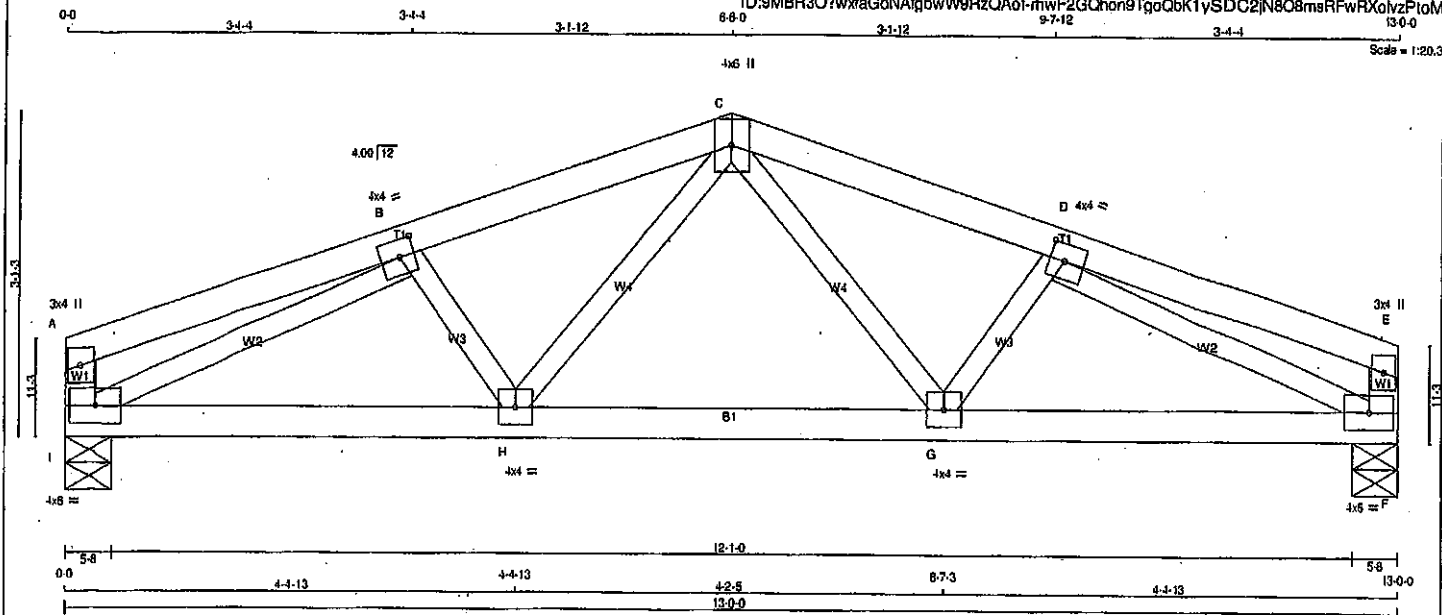


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408189	T53	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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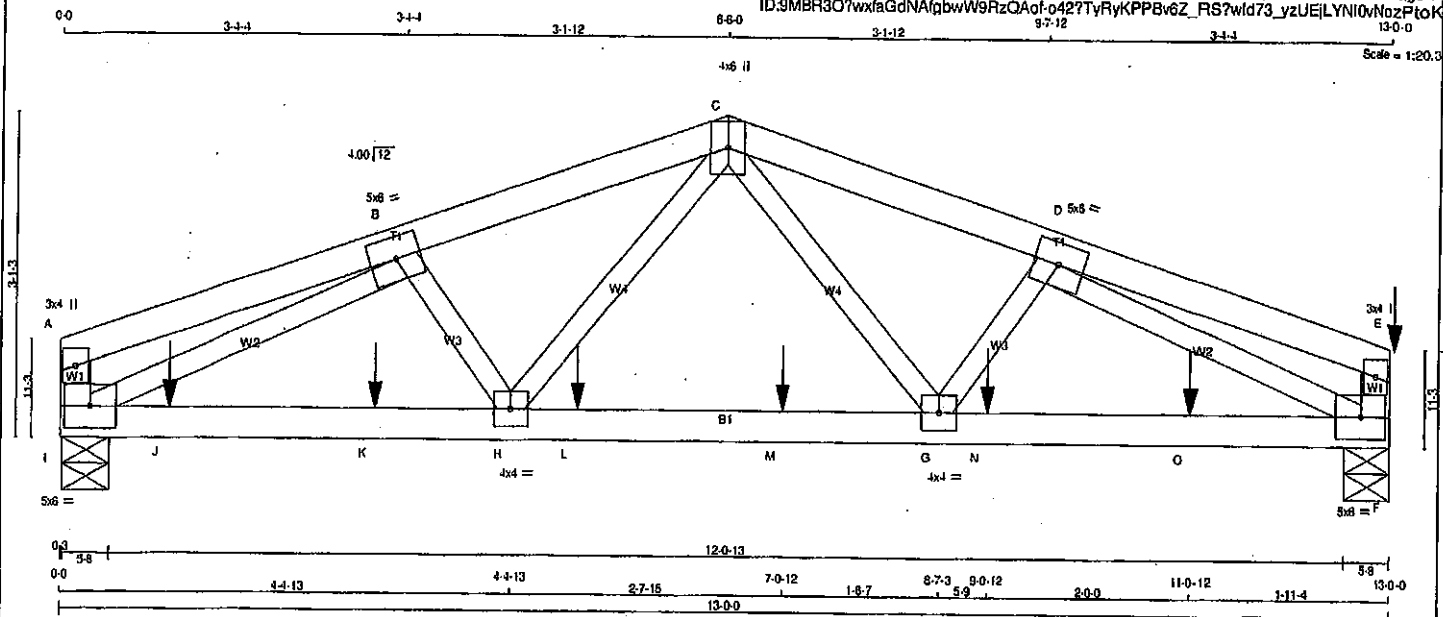
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408189	T53Z	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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ID:9MBR3O7wxfGdNAIgbwW9RzQAof-o42?TyRyKPPBv6Z_RS?wld73_yzUEjLYNI0vNozPtoK



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
I - A	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - F	2x4	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	12	TOP
C-E	12	TOP
I-A	12	TOP
F-E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
I-F	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

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	TMV+p	MT20	3.0	4.0	
B	TMVW-1	MT20	5.0	6.0	
C	TTWV+p	MT20	4.0	6.0	
D	TMVW-1	MT20	5.0	6.0	
E	TMV+p	MT20	3.0	4.0	
F	BMVW-1	MT20	5.0	6.0	
G	BMVW-1	MT20	4.0	4.0	
H	BMVW-1	MT20	4.0	4.0	
I	BMVW-1	MT20	5.0	6.0	

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

BUILDING DESIGNER		FOR BEARINGS TO BE VERIFIED BY						
BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQ'D	
JT	GROSS REACTION	GROSS REACTION		GROSS REACTION		BRG	BRG	
	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX	
I	2267	0	2267	0	0	5-8	5-8	
F	2267	0	2267	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST CASE	MAX MIN	COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERMALIVE	WIND	DEAD	SOIL	
I	1590	1118 / 0	0 / 0	0 / 0	0 / 0	471 / 0	0 / 0	
F	1588	1135 / 0	0 / 0	0 / 0	0 / 0	451 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.91 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 3	-91.8 -91.8 0.08 (1)	10.00	C-G	0 / 958	0.12 (1)	
B-C	-3507 / 0	-91.8 -91.8 0.12 (1)	4.91	G-D	0 / 239	0.03 (1)	
C-D	-3247 / 0	-91.8 -91.8 0.11 (1)	5.07	H-C	0 / 1370	0.17 (1)	
D-E	0 / 4	-91.8 -91.8 0.08 (1)	10.00	B-H	0 / 286	0.04 (1)	
I-A	-140 / 0	0.0 0.0 0.01 (1)	7.61	I-B	-3580 / 0	0.45 (1)	
F-E	-559 / 0	0.0 0.0 0.03 (1)	7.61	D-F	-3329 / 0	0.42 (1)	
I-J	0 / 3168	-18.5 -18.5 0.08 (1)	10.00				
J-K	0 / 3168	-18.5 -18.5 0.08 (1)	10.00				
K-H	0 / 3168	-18.5 -18.5 0.08 (1)	10.00				
H-L	0 / 2503	-18.5 -18.5 0.02 (1)	10.00				
L-M	0 / 2503	-18.5 -18.5 0.02 (1)	10.00				
M-G	0 / 2503	-18.5 -18.5 0.02 (1)	10.00				
G-N	0 / 2946	-18.5 -18.5 0.50 (1)	10.00				
N-O	0 / 2946	-18.5 -18.5 0.50 (1)	10.00				
O-F	0 / 2946	-18.5 -18.5 0.50 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	OR.
E	13-0-0	-421	-421	---	TOP	VERT
J	1-0-12	-507	-507	---	FRONT	VERT
K	3-0-12	-507	-507	---	FRONT	VERT
L	5-0-12	-507	-507	---	FRONT	VERT
M	7-0-12	-507	-507	---	FRONT	VERT
N	9-0-12	-387	-387	---	TOP	VERT
O	11-0-12	-265	-265	---	TOP	VERT

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 45 = 91 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

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 (0.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.06")
ALLOWABLE DEFL. (TL) = L/360 (0.43")
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TC=0.12/1.00 (B-C:1), BC=0.68/1.00 (H-I:1), WB=0.45/1.00 (I-1:1), SS=0.30/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

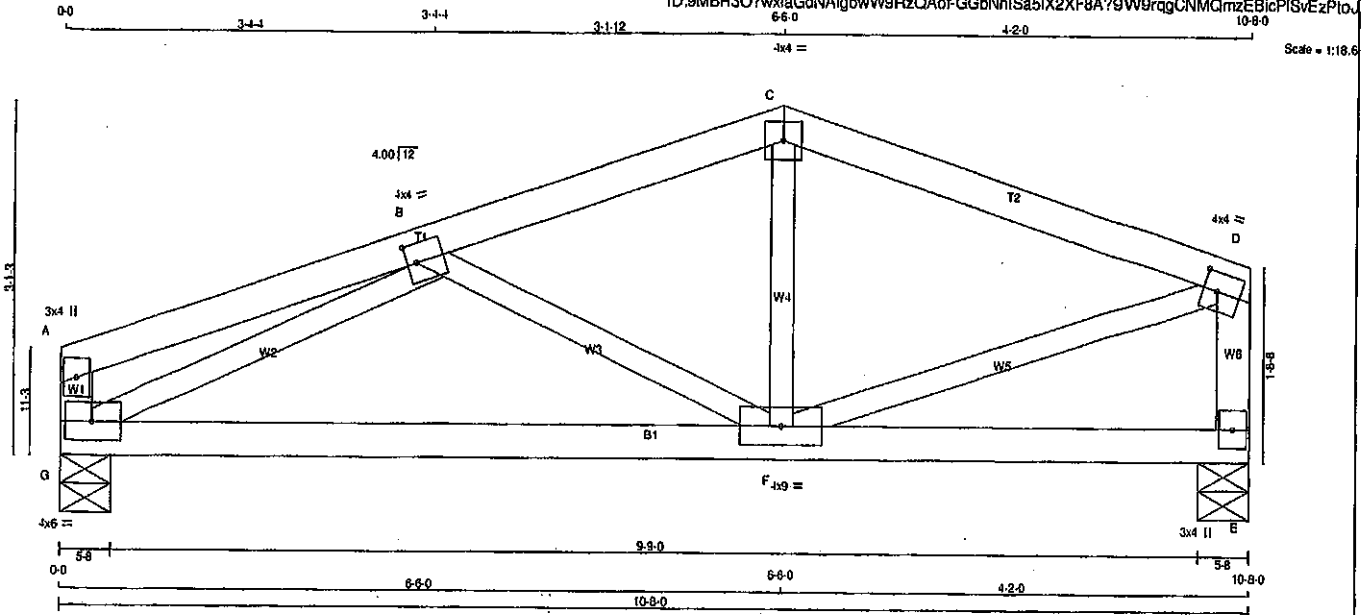
JSI GRIP = 0.90 (F) (INPUT = 0.90)
JSI METAL = 0.45 (D) (INPUT = 1.00)

Structural component only
DWG# T-2006456

JOB NAME 408189	TRUSS NAME T55	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 38 lb
(M/F)

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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMV+p	MT20	3.0	4.0	
B	TMVW-I	MT20	4.0	4.0	2.00 1.00
C	TTW-p	MT20	4.0	4.0	
D	TMVW-I	MT20	4.0	4.0	2.00 1.50
E	BMV1+p	MT20	3.0	4.0	
F	BMVWW-I	MT20	4.0	9.0	
G	BMVW1-I	MT20	4.0	6.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQ'D BRG
	VERT	HORZ	DOWN	HORZ		
E	588	0	588	0	5-8	5-8
G	588	0	588	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	416	273.0	0.0	0.0	0.0	143.0	0.0
G	416	273.0	0.0	0.0	0.0	143.0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, 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. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.
A-B	0/10	-91.8	10.00	B-F	-289.0	0.07 (1)	
B-C	-588/0	-91.8	6.25	F-C	0/83	0.03 (4)	
C-D	-588/0	-91.8	6.25	G-B	-585.0	0.22 (1)	
G-A	-121/0	0.0	7.81	F-D	0/587	0.13 (1)	
E-D	-585.0	0.0	7.81				
G-F	0/793	-18.5	10.00				
F-E	0/0	-18.5	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, 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 (0.36")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.36")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.06")

CSI: TC=0.21/1.00 (C-D:1), BC=0.22/1.00 (F-G:4),
WB=0.22/1.00 (B-G:1), SS=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

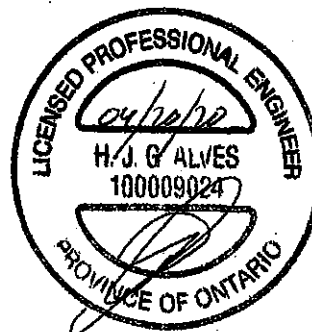
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

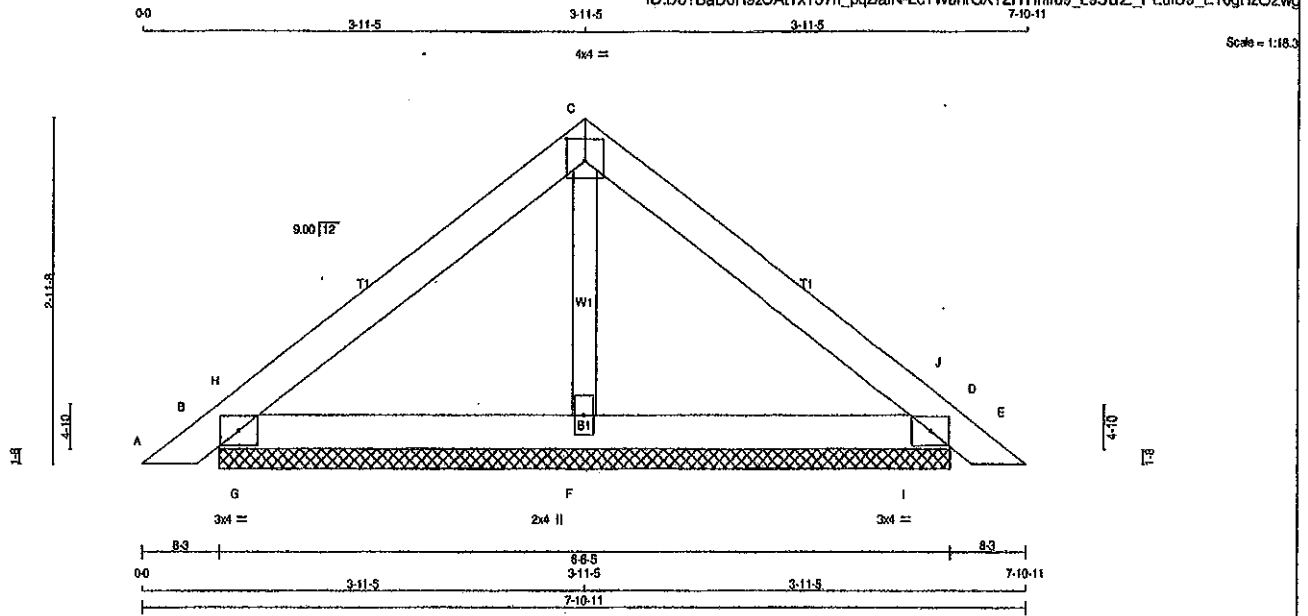
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (D) (INPUT = 0.90)
JSI METAL = 0.29 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006457

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	PB1	15	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 21 07:53:55 2020 Page 1	



TOTAL WEIGHT = 15 X 20 = 307 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		
B - D	2x4	DRY	No.2	SPF		
ALL WEBS	2x3	DRY	No.2	SPF		
DRY: SEASONED LUMBER.						

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMB1-I	MT20	3.0	4.0		
F	BMV1-w	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	SNOW	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
B	282	0	282	0	0	6-6-5	6-6-5	6-6-5	6-6-5
D	282	0	282	0	0	6-6-5	6-6-5	6-6-5	6-6-5
F	285	0	285	0	0	6-6-5	6-6-5	6-6-5	6-6-5

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	197	142 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0	0 / 0
D	197	142 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0	0 / 0
F	190	111 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	UNBRACED LENGTH (LC)
FR-TO	0 / 15	-91.8	-91.8 0.02 (1)	FR-TO	-118 / 0	0.02 (1)	10.00
B-H	-28 / 0	-91.8	-91.8 0.08 (1)	F-C	-295 / 0	0.00 (1)	6.25
H-C	-118 / 0	-91.8	-91.8 0.11 (1)	G-H	-295 / 0	0.00 (1)	6.25
C-J	-118 / 0	-91.8	-91.8 0.11 (1)	I-J	-295 / 0	0.00 (1)	6.25
J-D	-28 / 0	-91.8	-91.8 0.08 (1)				6.25
D-E	0 / 15	-91.8	-91.8 0.02 (1)				10.00
B-G	0 / 88	-18.5	-18.5 0.12 (1)				10.00
G-F	0 / 88	-18.5	-18.5 0.12 (1)				10.00
F-I	0 / 88	-18.5	-18.5 0.12 (1)				10.00
I-D	0 / 88	-18.5	-18.5 0.12 (1)				10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

CSI: TC=0.11/1.00 (C-J-I), BC=0.12/1.00 (F-I-I), WB=0.02/1.00 (C-F-I), SI=0.22/1.00 (B-G-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

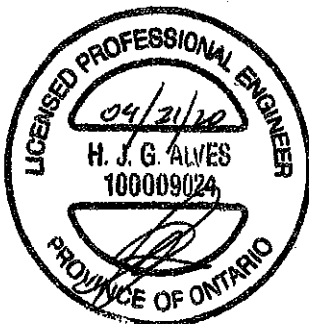
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)

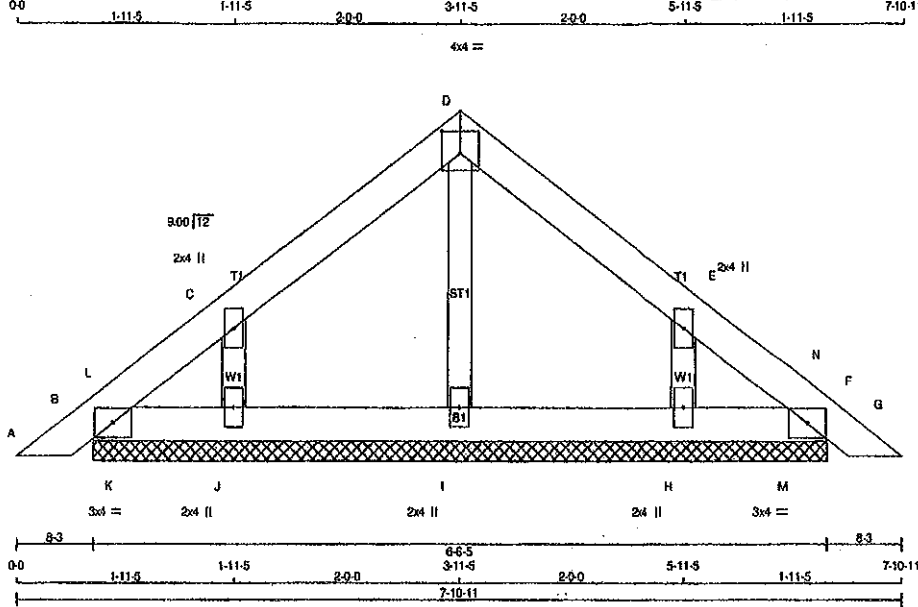
Structural component only
DWG# T-2008619



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	PB1G	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:18.3

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		
B - G	2x4	DRY	No.2	SPF		
ALL WEBS	2x3	DRY	No.2	SPF		
ALL GABLE WEBS	2x3	DRY	No.2	SPF		
DRY: SEASONED LUMBER.						
GABLE STUDS SPACED AT 2-0-0 OC.						

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE	PLATES			
B TMB1-I	MT20	3.0	4.0	
C TMB1-w	MT20	2.0	4.0	
D TTW-p	MT20	4.0	4.0	2.25 2.00
E TMB1-w	MT20	2.0	4.0	
F TMB1-I	MT20	3.0	4.0	
H, I, J				
H 8MW1-w	MT20	2.0	4.0	

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

BEARINGS

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED (PLF)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 / 15	-81.8 -81.8	0.02 (1)	I-D	-118 / 0	0.02 (1)	
B-L	-64 / 0	-81.8 -81.8	0.00 (1)	J-C	-166 / 0	0.03 (1)	
L-C	-27 / 0	-81.8 -81.8	0.05 (1)	H-E	-166 / 0	0.03 (1)	
C-D	-42 / 0	-81.8 -81.8	0.05 (1)	K-L	0 / 6	0.00 (1)	
D-E	-42 / 0	-81.8 -81.8	0.05 (1)	M-N	0 / 6	0.00 (1)	
E-N	-27 / 0	-81.8 -81.8	0.05 (1)				
N-F	-64 / 0	-81.8 -81.8	0.00 (1)				
F-G	0 / 15	-81.8 -81.8	0.02 (1)				
B-K	0 / 42	-18.5 -18.5	0.01 (1)				
K-J	0 / 42	-18.5 -18.5	0.01 (4)				
J-I	0 / 25	-18.5 -18.5	0.02 (4)				
I-H	0 / 25	-18.5 -18.5	0.02 (4)				
H-M	0 / 42	-18.5 -18.5	0.01 (4)				
M-F	0 / 42	-18.5 -18.5	0.01 (1)				

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

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

CS: TC=0.05/1.00 (D-E:1), BC=0.02/1.00 (I-J:4), WB=0.03/1.00 (C-J:1), SS=0.07/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

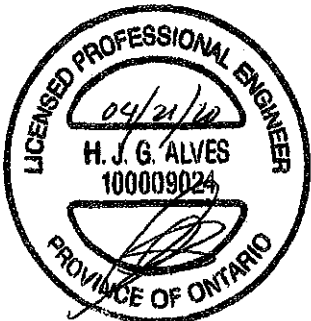
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

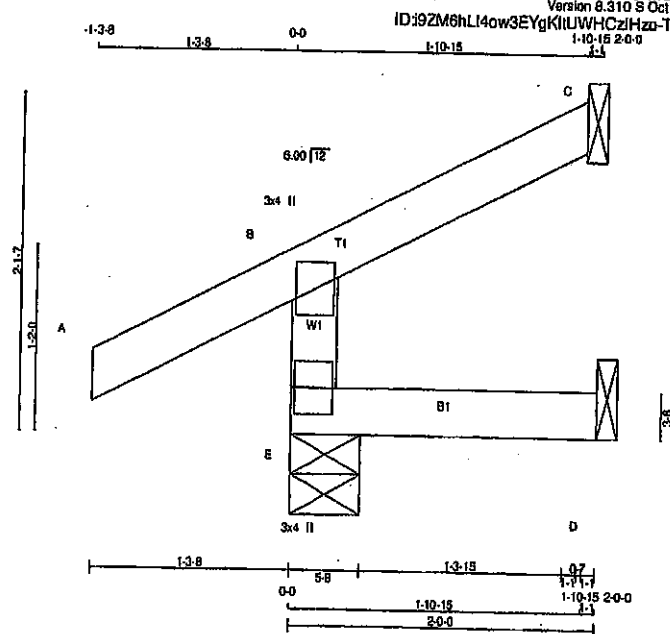
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (E) (INPUT = 0.90)
JSI METAL= 0.10 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006620

JOB NAME 408204	TRUSS NAME J1	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Pool Truss, Burlington				TRUSS DESC.	



LUMBER

N. L. G. A. RULES

CHORDS	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	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 IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	254	0	254	0	5-8	5-8
C	66	0	66	0	1-8	1-8
D	18	0	18	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	177	130/0	0/0	0/0	0/0	47/0	0/0
C	46	37/0	0/0	0/0	0/0	9/0	0/0
D	13	0/0	0/0	0/0	0/0	13/0	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: (5)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 (PLF)	MAX. LC2 (LC)	MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX. LC3 (LC)	
FR-TO		FROM	TO						
E-B	-234 / 0	0.0	0.0	0.01 (4)	7.81				
A-B	0 / 20	-91.8	-91.8	0.12 (1)	10.00				
B-C	-10 / 0	-91.8	-91.8	0.08 (1)	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 = 3 X 7 = 22 lb (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 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")

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (N/A:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

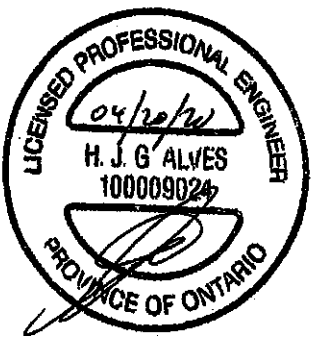
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)

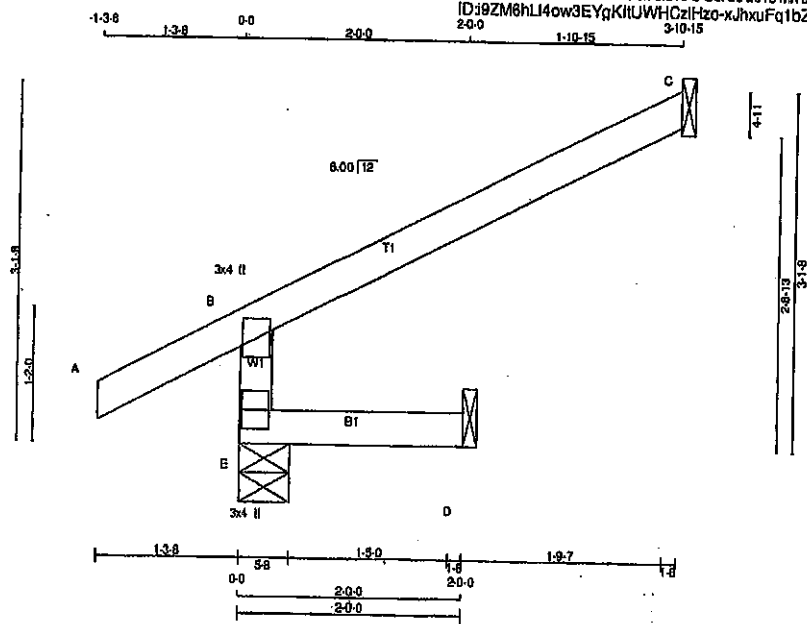


JOB NAME 408204	TRUSS NAME J2	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:18.5



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	389	0	389	0	5-8	5-8
C	135	0	135	0	1-8	1-8
D	16	0	18	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97781 H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE			
E	258	194 / 0	0 / 0	0 / 0	62 / 0	0 / 0
C	93	75 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	13 / 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 = 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: (5)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)
FR-TO				
E-B	-348 / 0	0.0	0.0	0.01 (4)
A-B	0 / 28	-91.8	-91.8	0.13 (5)
B-C	-20 / 0	-91.8	-91.8	0.24 (1)
E-D	0 / 0	-18.5	-18.5	0.02 (4)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 10 = 30 LB

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 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, NBC 2010, NBC 2015

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

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/998 (0.00")

CSI: TC=0.24/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (1/2:0), SSI=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

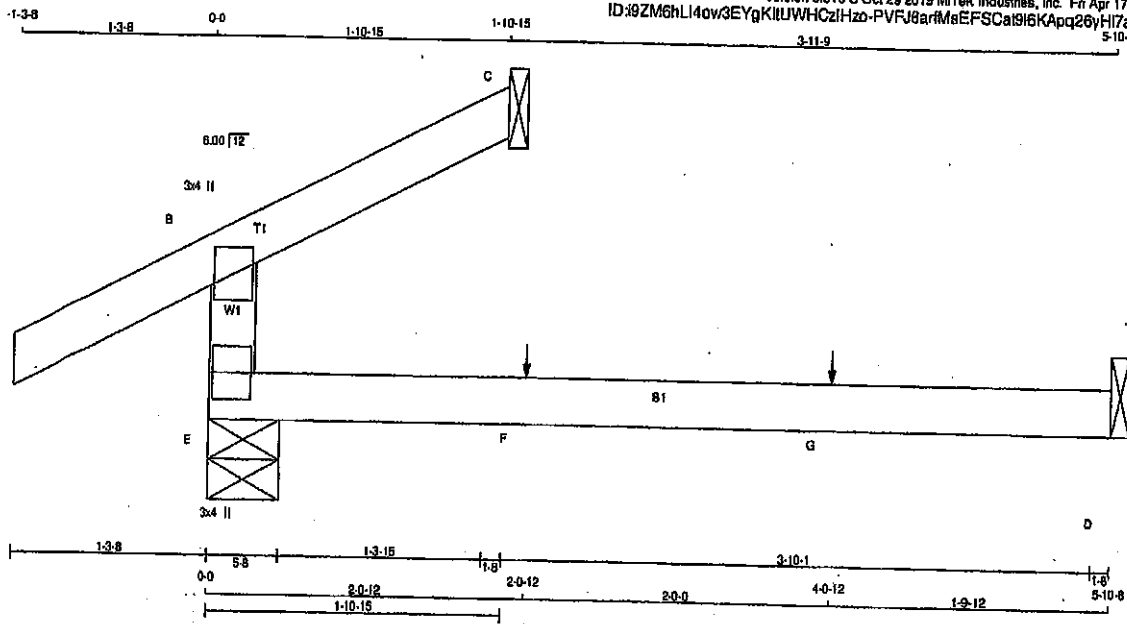
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.15 (E) (INPUT = 0.90)
JSI METAL = 0.10 (B) (INPUT = 1.00)



JOB NAME 408204	TRUSS NAME J3	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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5-10-8



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
E - B	2x4	DRY	No.2
A - G	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							
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REGRD
E	297	0	297	0	0	5-8	5-8
C	68	0	68	0	0	1-8	1-8
D	45	0	50	0	0	1-8	1-8

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

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	212	130.0	0.0	0.0	0.0	82.0	0.0
C	48	37.0	0.0	0.0	0.0	9.0	0.0
D	36	0.0	0.0	0.0	0.0	39.0	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: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	FACTORED (LC1)	MEMB.	FORCE (LBS)	MAX. FACTORED (LC1)	
FR-TO		FROM	TO	FR-TO		LENGTH	
E-B	-234.0	0.0	0.0 0.13 (4)	7.81			
A-B	0.728	-91.8	-91.8 0.12 (1)	10.00			
B-C	-10.0	-91.8	-91.8 0.08 (1)	10.00			
E-F	0.0	-18.5	-18.5 0.13 (4)	10.00			
F-G	0.0	-18.5	-18.5 0.13 (4)	10.00			
G-D	0.0	-18.5	-18.5 0.13 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	HEEL
F	2-0-12	1	1	---	BACK	VERT	TOTAL
G	4-0-12	1	1	---	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. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCO 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CSI: TC=0.13/1.00 (B-E-4), EC=0.13/1.00 (D-E-4), WB=0.00/1.00 (H-A-0), SSI=0.09/1.00 (A-B-1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

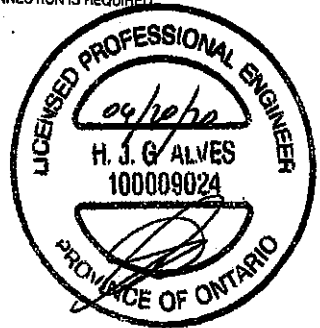
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
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 = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)

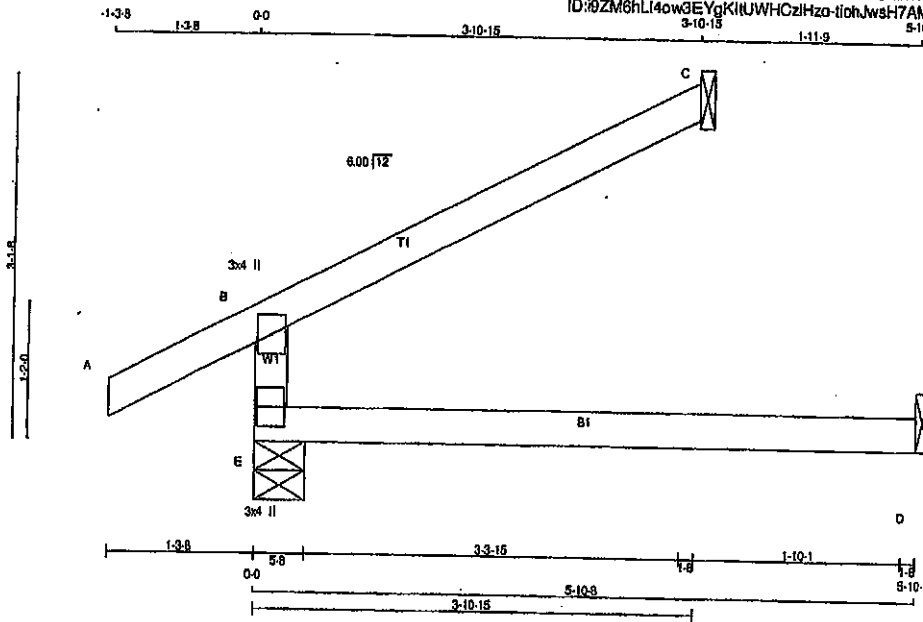


Structural component only
DWG# T-2008372

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	ORWG NO.
408204	J4	3	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						

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Scale = 1:18.2



LUMBER			
N. L. G. A. RULES	SIZE	DRY	NUMBER
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
B	TMV+p	MT20	3.0	4.0
E	BMV1+p	MT20	3.0	4.0

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REGRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	412	0	412	0	5-8	5-8
C	135	0	135	0	1-8	1-8
D	45	0	50	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	291	184/0	0/0	0/0	0/0	97/0	0/0
C	93	75/0	0/0	0/0	0/0	18/0	0/0
D	36	0/0	0/0	0/0	0/0	36/0	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)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD (LBS)	FROM TO	CS1 (LC)	MEMB. FORCE (LBS)	MAX. FACTORED (LBS)	CS1 (LC)	MAX. FACTORED (LBS)
FR-TO								
E-B	-349/0	0.0	0.0	0.13 (4)	7.81			
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-20/0	-91.8	-91.8	0.24 (1)	6.25			
E-D	0/0	-18.5	-18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 3 X 14 = 43 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. O/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CS1: TC=0.24/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),
WB=0.00/1.00 (N/A:0), SS1=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

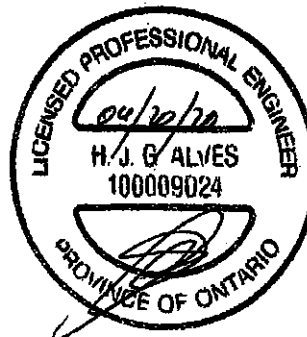
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

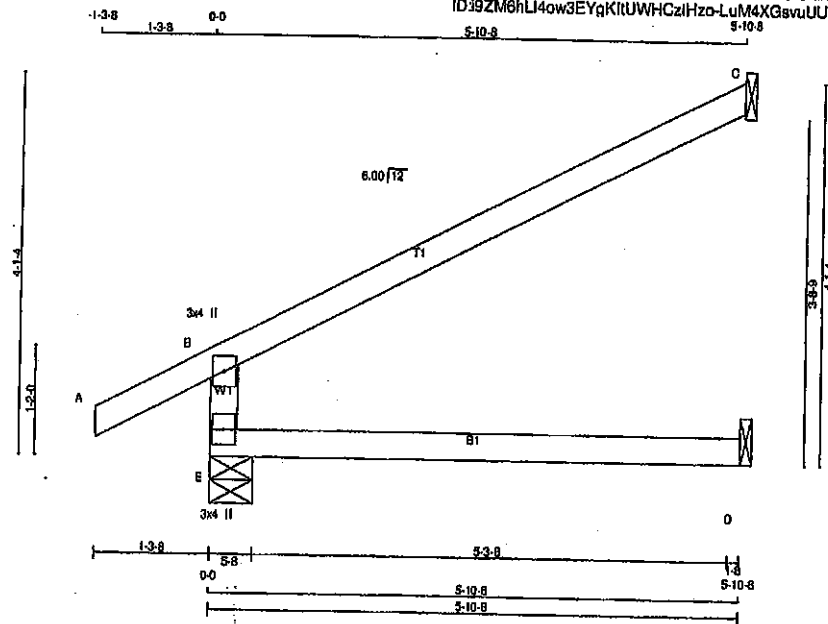
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.15 (E) (INPUT = 0.80)
JSI METAL = 0.10 (B) (INPUT = 1.00)



Structural component only
DMA/G# T-2006372

JOB NAME 408204	TRUSS NAME J5	QUANTITY 9	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
E	525	0	525	0	0	5-8	5-8	5-8	5-8
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 B97781H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST CASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
E	389	257.0	0.0	0.0	0.0
C	139	113.0	0.0	0.0	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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
E-B	-461.0	0.0	0.0 0.13 (4)	7.81	
A-B	0.28	-91.8	-91.8 0.12 (1)	10.00	
B-C	-39.0	-91.8	-91.8 0.54 (1)	6.25	
E-D	0.0	-18.5	-18.5 0.13 (4)	10.00	

TOTAL WEIGHT = 9 X 17 = 151 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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2012, ABC 2010
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIG 2011, TPIG 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) = $L/999$ (0.00")

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.09/1.00 (A-B: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

AUTOSOLVE RIGHT HEEL ONLY

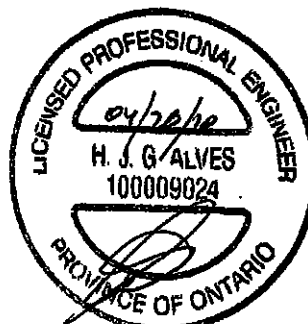
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(PS) (PL) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1667 1656

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)



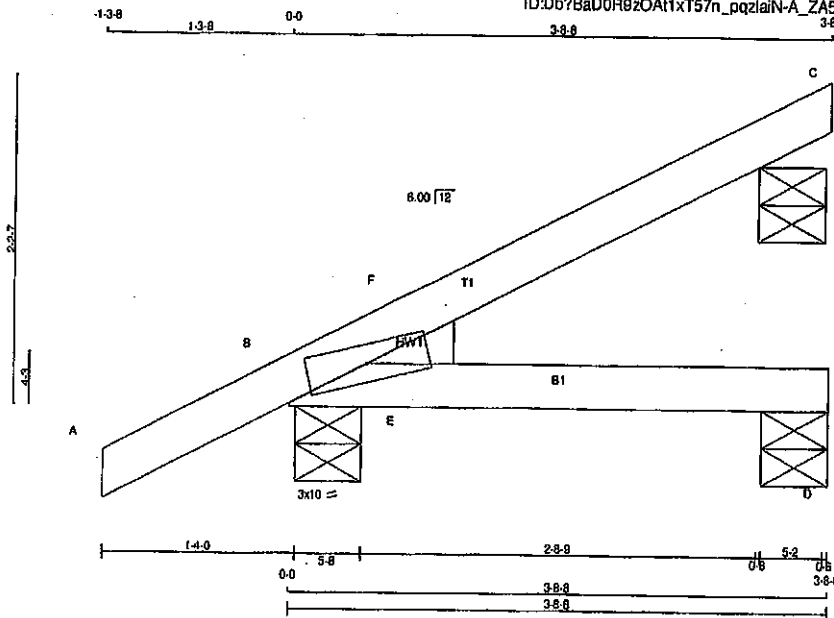
Structural component only
DWG# T-2006374

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408187	J6	7	1	TRUSS DESC.		

Tamarack Rod Truss, Burlington

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ID:Db7BaD0R9zOA1t57n_pq2laiN-A_ZASPeMDD811_m09Uwgfcrplyyyc7qc3uGHEhzPtyP

Scale = 1:14.2



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	W	LEN	Y	X
JT TYPE	PLATES			
B	TMBH1-m	MT20	3.0	10.0

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
C	142	0	142	0	5-8	5-8	
B	329	0	329	0	5-8	5-8	2x4 L
D	62	0	62	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	99	76.0	0.0	0.0	0.0	23.0	0.0
B	230	164.0	0.0	0.0	0.0	66.0	0.0
D	46	19.0	0.0	0.0	0.0	27.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

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			
A-B	0/28	-91.8 -91.8 0.13 (5)	10.00	E-F	-123.3	0.00 (1)	
B-F	-17/0	-91.8 -91.8 0.05 (4)	8.25				
F-C	0/5	-91.8 -91.8 0.15 (1)	10.00				
B-E	0/0	-18.5 -18.5 0.14 (1)	10.00				
E-D	0/0	-18.5 -18.5 0.14 (1)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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 OF 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 25.6 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) = $L/999$ (0.03")

CSI: TC=0.16/1.00 (C-F:1), BC=0.14/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.10/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354 1887 788 1987 1656	

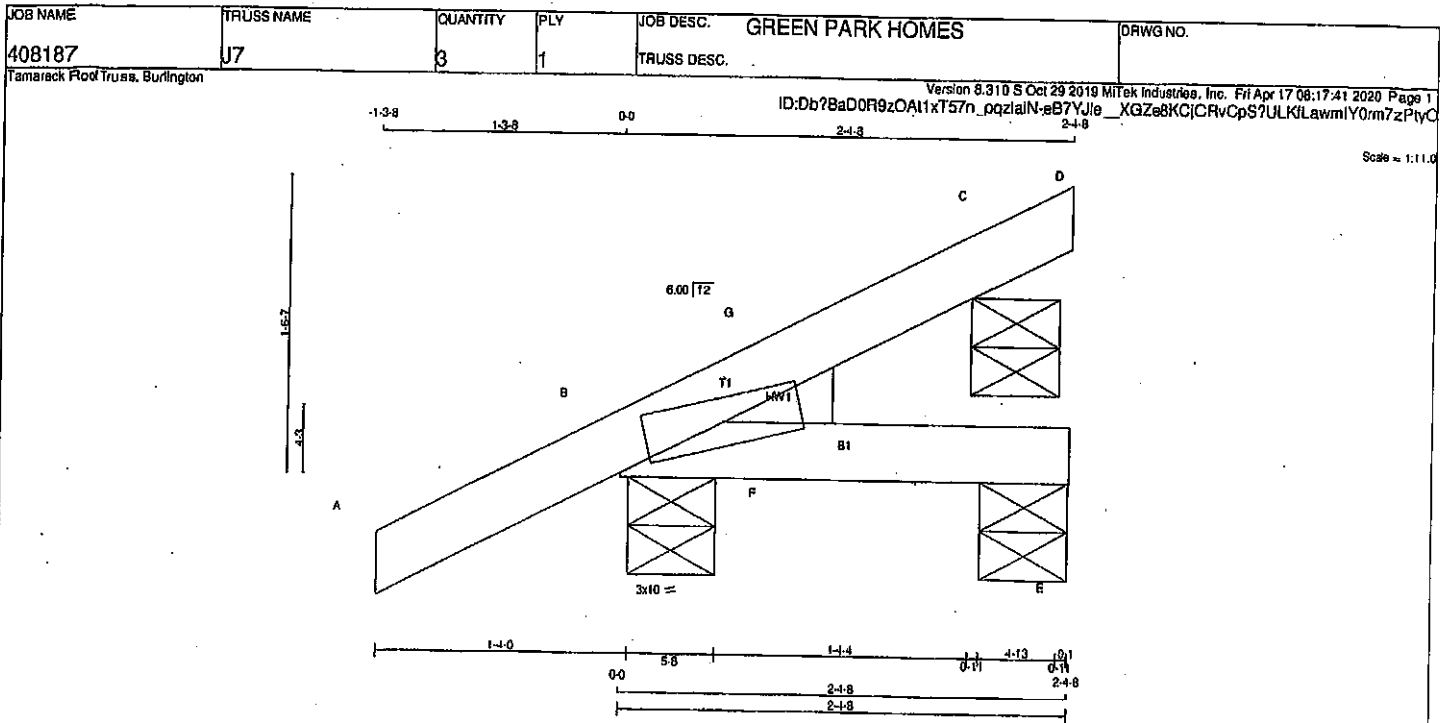
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.09 (B) (INPUT = 0.90)
JSI METAL = 0.02 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006421



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

PLATES (tablets in inches)
JT TYPE PLATES W LEN Y X
B TMBH1-m MT20 3.0 10.0

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

FACTORED		MAXIMUM FACTORED		INPUT	REQD	HEEL WEDGE 2x4 L	
GROSS REACTION		GROSS REACTION		BRG	BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	244	0	244	0	0	5-8	5-8
E	38	0	38	0	0	5-8	5-8
C	112	0	112	0	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
B	170	124.0	0.0	0.0	0.0	0.0	46.0
E	27	11.0	0.0	0.0	0.0	0.0	16.0
C	78	59.0	0.0	0.0	0.0	0.0	19.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	FR-TO	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		WEBS MAX. FACTORED FORCE (LBS)	
		FROM	TO	FROM	TO	FR-TO	MAX
A-B	0.28	-91.8	-91.8	0.12 (5)	10.00	F-G	-40.78
B-G	-18.0	-91.8	-91.8	0.04 (1)	8.25		0.00 (1)
G-C	0.10	-91.8	-91.8	0.05 (1)	10.00		
C-D	-7.0	-91.8	-91.8	0.01 (1)	10.00		
B-F	0.0	-18.5	-18.5	0.05 (1)	10.00		
F-E	0.0	-18.5	-18.5	0.05 (1)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 8 = 25 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

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

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

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

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

CSI: TC=0.12/1.00 (A-B:5), BC=0.05/1.00 (E-F:1), WB=0.00/1.00 (F-G: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

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

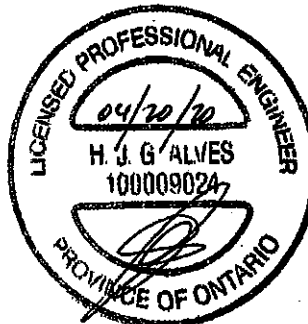
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.05 (B) (INPUT = 0.90)
JSI METAL = 0.01 (B) (INPUT = 1.00)

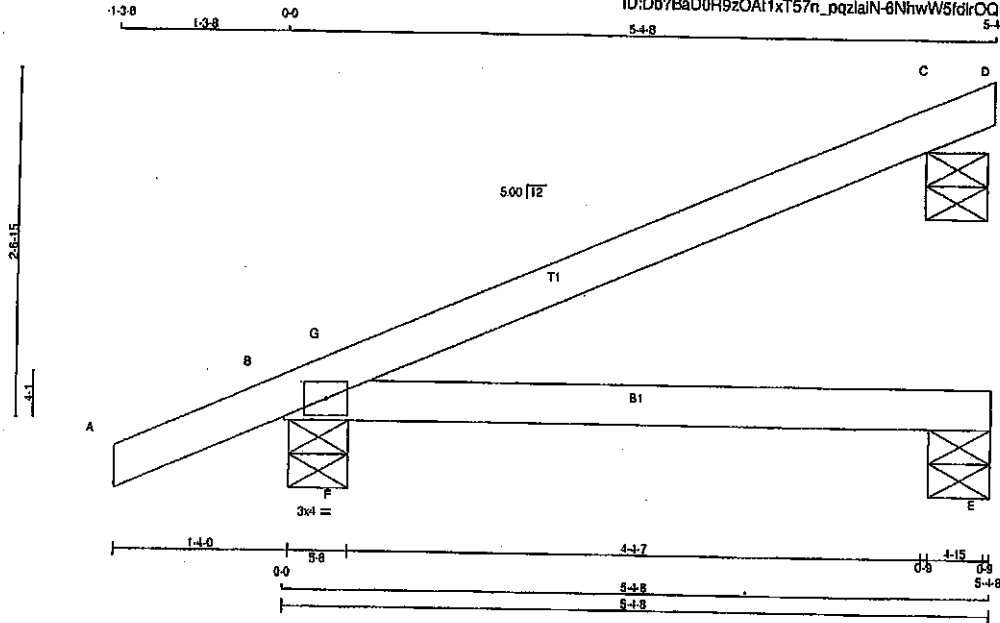


Structural component only
DWG# T-2006422

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408187	J8	7	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:15.7



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

DRY: SEASONED LUMBER.

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-1	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
B	409	0	409	0	5-8	5-8
E	76	0	76	0	5-8	5-8
C	237	0	237	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS					
		1ST CASE	SNOW	LIVE	PERM LIVE	WIND	DEAD
B	287	200.0	0.0	0.0	0.0	86.0	0.0
E	57	19.0	0.0	0.0	0.0	38.0	0.0
C	164	128.0	0.0	0.0	0.0	38.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 0.25 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 VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0.23	-91.8	-91.8 0.12 (1)	10.00	F-G	-289	23 0.00 (1)
B-G	-26.22	-91.8	-91.8 0.06 (4)	6.25			
G-C	-2.2	-91.8	-91.8 0.32 (1)	10.00			
C-D	-6.0	-91.8	-91.8 0.01 (1)	10.00			
B-F	0.0	-18.5	-18.5 0.20 (1)	10.00			
F-E	0.0	-18.5	-18.5 0.21 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 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
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (LL) = $L/899$ (0.04")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/709$ (0.08")

CSI: TC=0.32/1.00 (C-G:1), BC=0.21/1.00 (E-F:1),
WB=0.00/1.00 (F-G:1), SSI=0.24/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1967 1658

PLATE PLACEMENT TOL. = 0.250 Inchee

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

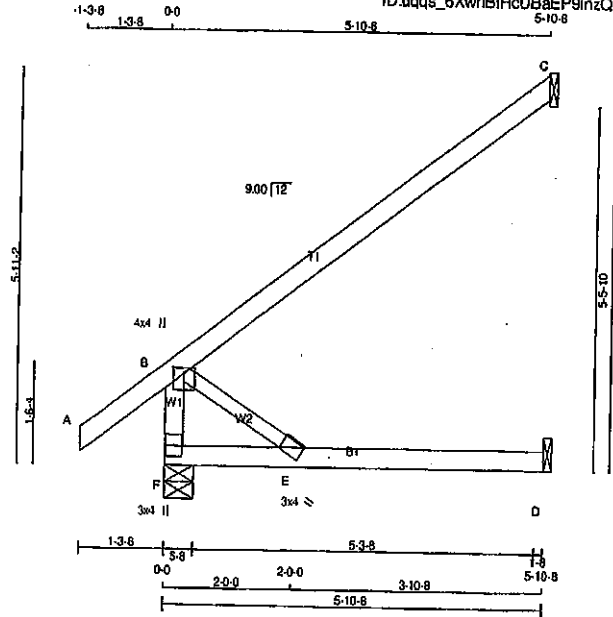


Structural component only
DWG# T-2006423

JOB NAME 408188	TRUSS NAME J31	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:uqqs_6XwriBIHcUBaEP9InzQC9m-MK8SIQmm3huvklRGof7KAJICXwfbAzx5Qd2_MzPtqV

Scale: 3/8"=1'



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

DESCR.
SPF
SPF
SPF

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
F	450	0	450	0	0	5-8	5-8	
C	270	0	270	0	0	1-8	1-8	
D	54	0	61	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	316	221.0	0.0	0.0	0.0	95.0	0.0
C	186	150.0	0.0	0.0	0.0	35.0	0.0
D	43	0.0	0.0	0.0	0.0	43.0	0.0

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

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)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX.	FORCE	VERT. LOAD	LOI MAX	MEMB.	MAX.	FORCE	MAX
FR-TO		(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	CSI (LC)
F-B	-396.0	0.0	0.0	0.04 (1)	7.81	B-E	0.0	0.00 (1)
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00			
B-C	0.0	-91.8	-91.8	0.54 (1)	10.00			
F-E	0.0	-18.5	-18.5	0.17 (4)	10.00			
E-D	0.0	-18.5	-18.5	0.19 (4)	10.00			

TOTAL WEIGHT = 4 X 20 = 81 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.54/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=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

AUTOSOLVE RIGHT HEEL ONLY

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

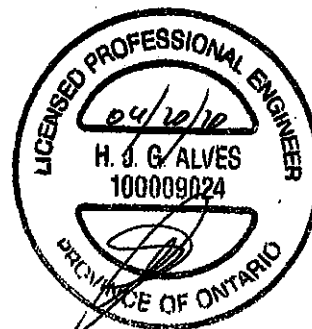
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

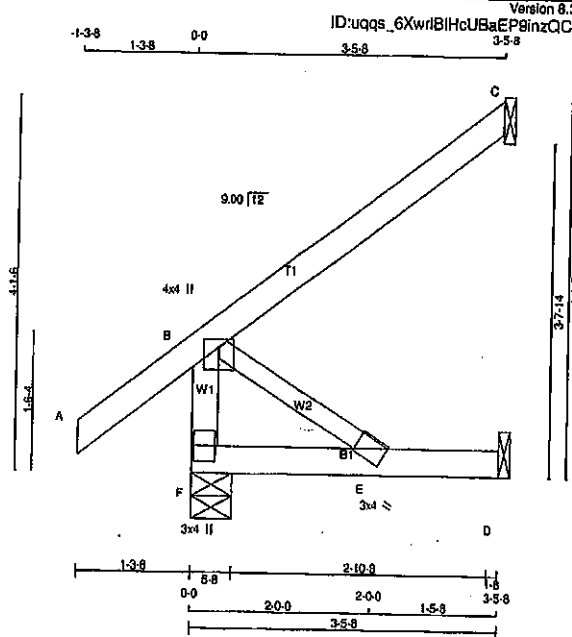
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.32 (B) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006436

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	J32	4	1	GREEN PARK HOMES	
Tamarack Rod Truss, Burlington				TRUSS DESC.	



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

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	X
B TMVW+p	MT20	4.0	4.0	1.00 2.00
E BMVW+p	MT20	3.0	4.0	
F 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	GROSS REACTION	DOWN	GROSS REACTION	BRG	BRG
F	317	0	317	0	5-8
C	159	0	159	0	1-8
D	32	0	38	0	1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	222	159.0	0.0	0.0	0.0	0.0	63.0	0.0
C	109	88.0	0.0	0.0	0.0	0.0	21.0	0.0
D	28	0.0	0.0	0.0	0.0	0.0	28.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
F-B	-285.0	0.0	0.0	0.03 (1)	7.81	B-E	0.00 (1)
A-B	0.38	-91.8	-91.8	0.14 (5)	10.00		
B-C	0.0	-91.8	-91.8	0.19 (1)	10.00		
F-E	0.0	-18.5	-18.5	0.06 (4)	10.00		
E-D	0.0	-18.5	-18.5	0.06 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 14 = 56 lb

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

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

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

CSI: TC=0.19/1.00 (B-C:1), BC=0.08/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.23 (B) (INPUT = 0.80)
JSI METAL = 0.06 (B) (INPUT = 1.00)

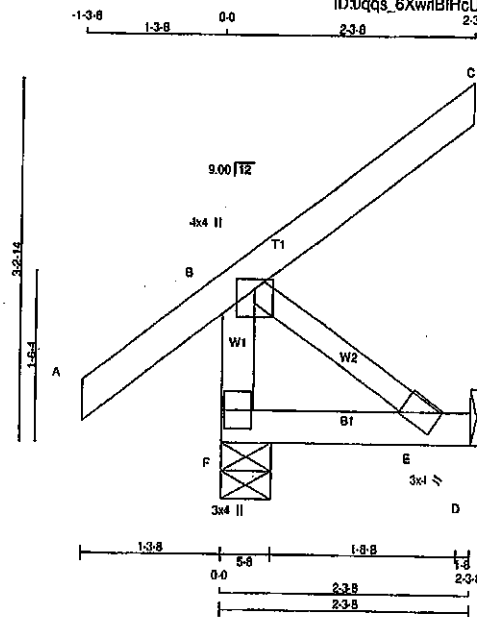


Structural component only
DWG# T-2006437

JOB NAME 408188	TRUSS NAME J33	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Floor Truss, Burlington

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Scale = 1:10.0

TOTAL WEIGHT = 11 lb

<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 (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMW+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	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	388	0	388	0
D	21	0	24	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	254	192.0	0.0	0.0	0.0	62.0	0.0
D	17	0.0	0.0	0.0	0.0	17.0	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. 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)	FACTORED LC1 MAX. CS1 (LC)	UNBRAC LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
F-B		-345.0	0.0	0.0	0.04 (1)	7.81	B-E		0.0	0.00 (1)
A-B		0.0	-91.8	-91.8	0.13 (5)	10.00				
B-C		-65.0	-91.8	-91.8	0.38 (1)	6.25				
F-E		0.0	-18.5	-18.5	0.03 (4)	10.00				
E-D		0.0	-18.5	-18.5	0.02 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN./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 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/380 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/380 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.38/1.00 (B-C:1), BC=0.03/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.14/1.00 (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
(PSD)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1687 788	1987 1056

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

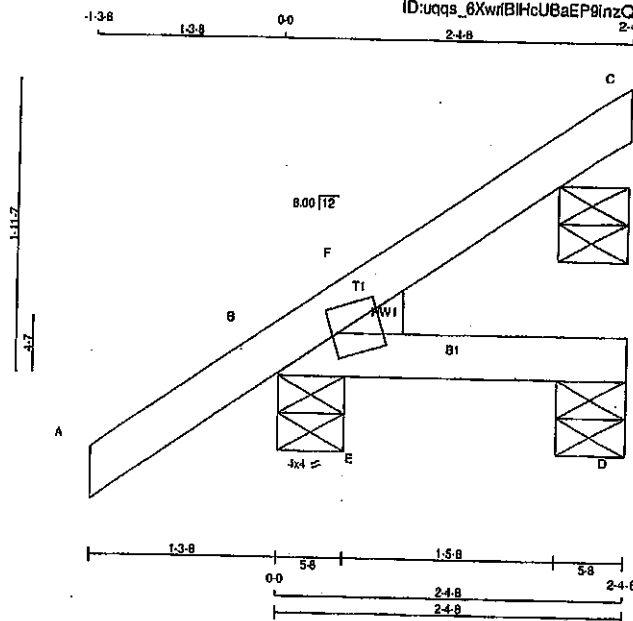


Structural component only
DWG# T-2006438

JOB NAME 408188	TRUSS NAME J34	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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

PLATES (tablets in inches)
JT TYPE PLATES W LEN Y X
B TM8H1-m MT20 4.0 4.0 2.00 0.50

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
C	89	0	89	0	5-8	5-8	
B	257	0	257	0	5-8	5-8	2x4 L
D	42	0	42	0	5-8	5-8	

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JTS: C

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	82	47.0	0.0	0.0	0.0	14.0	0.0
B	178	131.0	0.0	0.0	0.0	48.0	0.0
D	31	13.0	0.0	0.0	0.0	18.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)
FR-TO		FROM TO		
A-B	0.34	-91.8 -91.8 0.13 (5)	10.00	
B-F	-15.0	-91.8 -91.8 0.02 (1)	6.25	
F-C	0.5	-91.8 -91.8 0.08 (1)	10.00	
B-E	0.0	-18.5 -18.5 0.08 (1)	10.00	
E-D	0.0	-18.5 -18.5 0.08 (1)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 8 = 51 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
- TPC 2011, 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CS1: TC=0.13/1.00 (A-B:5), BC=0.08/1.00 (B-E:1), WB=0.00/1.00 (E-F: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

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

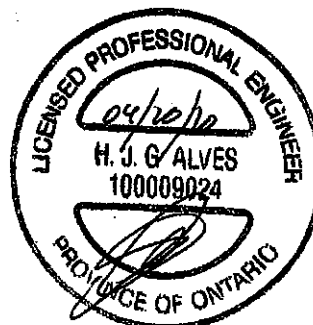
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 768 1887 1888

PLATE PLACEMENT TOL. = 0.250 inches

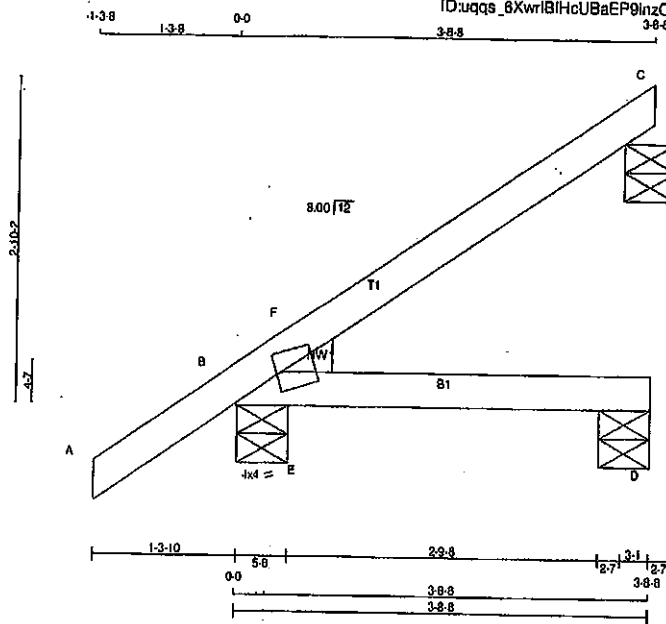
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.30)
JSI METAL= 0.04 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006439

JOB NAME 408188	TRUSS NAME J35	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
B TMBH1-m MT20 4.0 4.0 2.00 0.50

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ			
C	144	0	144	0	5-8 (3-1)	5-8	
B	330	0	330	0	5-8	5-8	2x4 L
D	61	0	61	0	5-8	5-8	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

JT	UNFACTORED REACTIONS		MAX. MIN. COMPONENT REACTIONS				
	1ST LOASE COMBINED		SNOW	LIVE	PERM.LIVE	WIND	DEAD
C	99		77.0	0.0	0.0	0.0	22.0
B	231		185.0	0.0	0.0	0.0	68.0
D	45		18.0	0.0	0.0	0.0	27.0

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

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED				WEBS		FACTORED	
	MAX. FORCE (LBS)		VERT. LOAD (PL)	LC1 (LC)	MAX. UNBRACED LENGTH	FR-TO	MEMB.	MAX. FORCE (LBS)	LC1 (LC)	
A-B	0.34		-91.8	-91.8	0.14 (5)	10.00	E-F	-155.0		0.00 (1)
B-F	-18.0		-91.8	-91.8	0.04 (4)	6.25				
F-C	0.3		-91.8	-91.8	0.15 (1)	10.00				
B-E	0.0		-18.5	-18.5	0.14 (1)	10.00				
E-D	0.0		-18.5	-18.5	0.14 (1)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 12 = 47 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, 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

155% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/989 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSK: TC=0.15/1.00 (C-F:1), BC=0.14/1.00 (B-E:1), WB=0.00/1.00 (E-F:1), SS=0.13/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

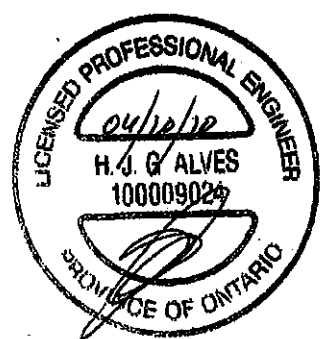
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

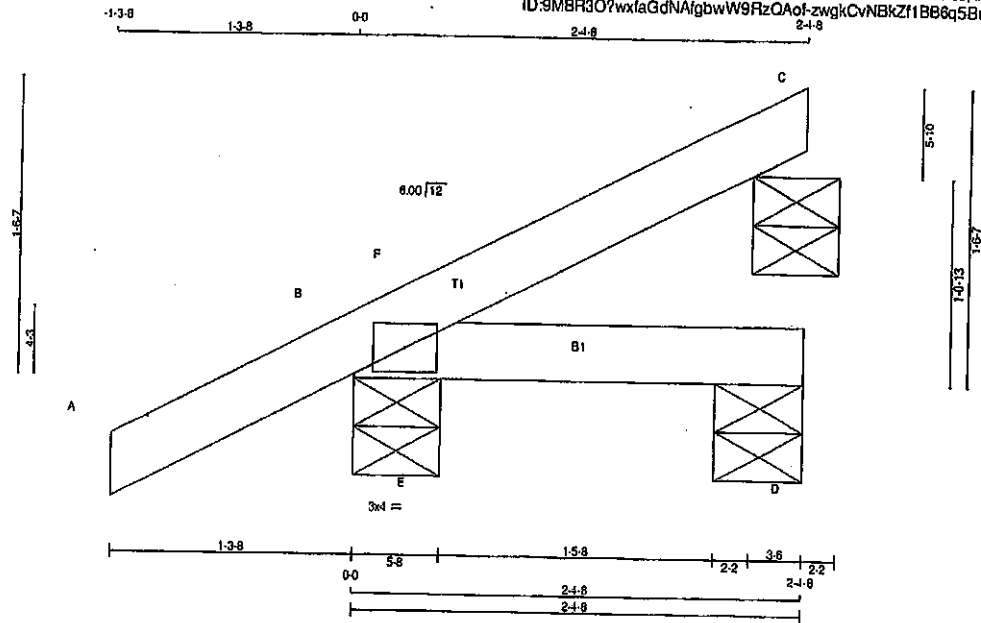
JSI GRIP = 0.22 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



JOB NAME 408189	TRUSS NAME J51	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Rd of Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 28 2019 Mitek Industries, Inc. Fri Apr 17 08:28:19 2020 Page 1	

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Scale = 1:11.0



LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER
A - C 2x4 DRY No.2
B - D 2x4 DRY No.2
DRY: SEASONED LUMBER.
GABLE STUDS SPACED AT 2'-0" O.C.

PLATES (table in inches)
JT TYPE PLATES W LEN Y X
B TMB1-1 MT20 3.0 4.0

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C
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: (6)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM TO					
A-B	0.28	-91.8	-91.8 0.12 (5)	10.00	E-F	-95.2	0.00 (1)
B-F	-9.0	-91.8	-91.8 0.02 (4)	10.00			
F-C	0.2	-91.8	-91.8 0.06 (1)	10.00			
B-E	0.0	-18.5	-18.5 0.05 (1)	10.00			
E-D	0.0	-18.5	-18.5 0.05 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 8 = 45 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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.12/1.00 (A-B:5), BC=0.05/1.00 (B-E:1), WB=0.00/1.00 (E-F:1), SSI=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

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= 0.20 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 1.00)

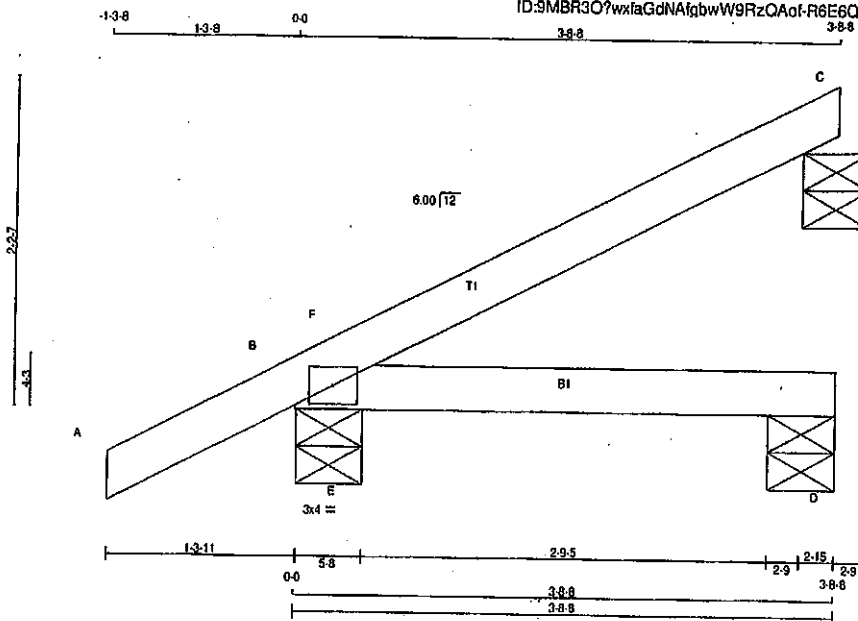


Structural component only
DWG# T-2006451

JOB NAME 408189	TRUSS NAME J52	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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



TOTAL WEIGHT = 4 X 11 = 43 lb

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

PLATES (table in inches)
JT TYPE PLATES W LEN Y X
B TMB1-1 MT20 3.0 4.0

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
C	148	0	148	0	5-8 (2-15)	5-8
B	329	0	329	0	5-8	5-8
D	57	0	57	0	5-8	5-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	102	80.0	0.0	0.0	0.0	23.0	0.0
B	230	164.0	0.0	0.0	0.0	66.0	0.0
D	42	15.0	0.0	0.0	0.0	27.0	0.0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MAX. HORZ. LOAD (LC)	MAX. FACTORED FORCE (LBS)	MAX. HORZ. LOAD (LC)
FR-TO		FROM TO	CS (LC)	UNBRACED LENGTH	FR-TO	
A-B	0.28	-91.8	-91.8	0.13 (5)	10.00	
B-F	-18.17	-91.8	-91.8	0.03 (4)	6.25	
F-C	-2.2	-91.8	-91.8	0.16 (1)	10.00	
B-E	0.0	-18.5	-18.5	0.12 (1)	10.00	
E-D	0.0	-18.5	-18.5	0.12 (1)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 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, NBCO 2010, NBCO 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCO 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.16/1.00 (C-F:1), BC=0.12/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.17/1.00 (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(PRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.26 (B) INPUT = 0.90 ;
JSI METAL = 0.09 (B) INPUT = 1.00 ;

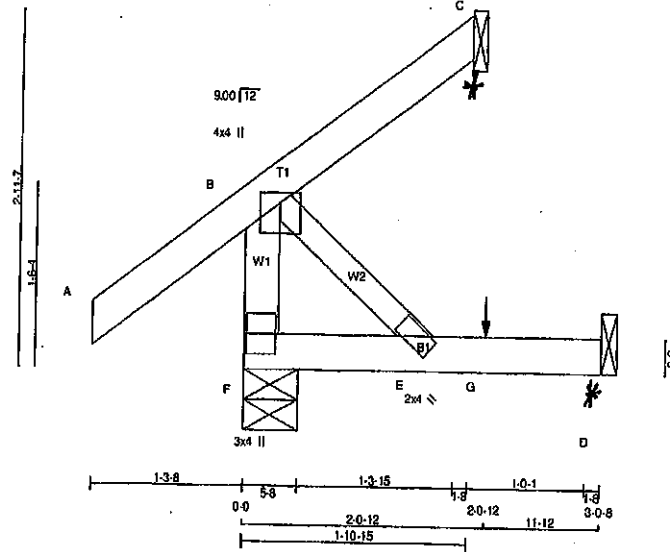


Structural component only
DWG# T-2006452

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408188	C30	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 06:26:01 2020 Page 1
 ID: uqqs 6XwrlBIHcUBaEP9lnzQC9m-7NLZFjdE9GcdzJ7CP9TF9R2v_ZVIMGL7H8zPlqa
 1-3-8 1-3-8 0-0 1-10-15 1-10-15 3-0-8 1-1-9

Scale = 1:17.6



LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
CHORDS	2x4	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 (table in inches)			
JT TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0 4.0 1.00 2.00
E	BMVW+p	MT20	2.0 4.0
F	BMV1+p	MT20	3.0 4.0

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F	288	0	288	0	0	5-8	5-8	
C	42	0	42	0	-35	1-8	1-8	
D	28	0	32	0	0	1-8	1-8	

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX. MIN. COMPONENT REACTIONS		PERM. LIVE WIND		DEAD SOIL	
	SNOW	LIVE	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F	201	145.0	0.0	0.0	0.0	57.0	0.0	
C	29	23.25	0.0	0.0	0.0	5.0	0.0	
D	23	0.0	0.0	0.0	0.0	23.0	0.0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LC1 MAX (PLF)		MAX. CS1 (LC)		WEBS MAX. FACTORED FORCE (LBS)		MAX. CS1 (LC)	
	FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO
F-B	-280.0	0.0	0.0	0.0	0.03 (1)	7.81	0.0	0.0	0.00 (1)	
A-B	0.38	-91.8	-91.8	0.14 (5)	10.00					
B-C	-27.0	-91.8	-91.8	0.13 (5)	6.25					
F-E	0.0	-18.5	-18.5	0.05 (4)	10.00					
E-G	0.0	-18.5	-18.5	0.05 (4)	10.00					
G-D	0.0	-18.5	-18.5	0.05 (4)	10.00					

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	-0	-0	---	BACK	VERT	TOTAL	---	G1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 11 = 22 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
 - PART 9 OF NBC 2010, NBC 2012, ABC 2019
 - PART 9 OF NBC 2012 (2019 AMENDMENT)
 - CSA 088-09, CSA 088-14
 - TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

155 % 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")

CS1: TC=0.14/1.00 (A-B-5), BC=0.05/1.00 (D-E-4),
 WB=0.00/1.00 (B-E-1), SS1=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.

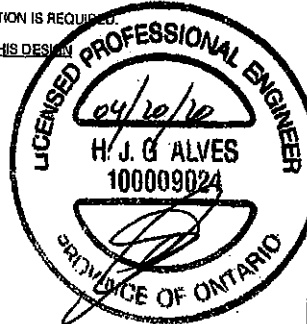
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

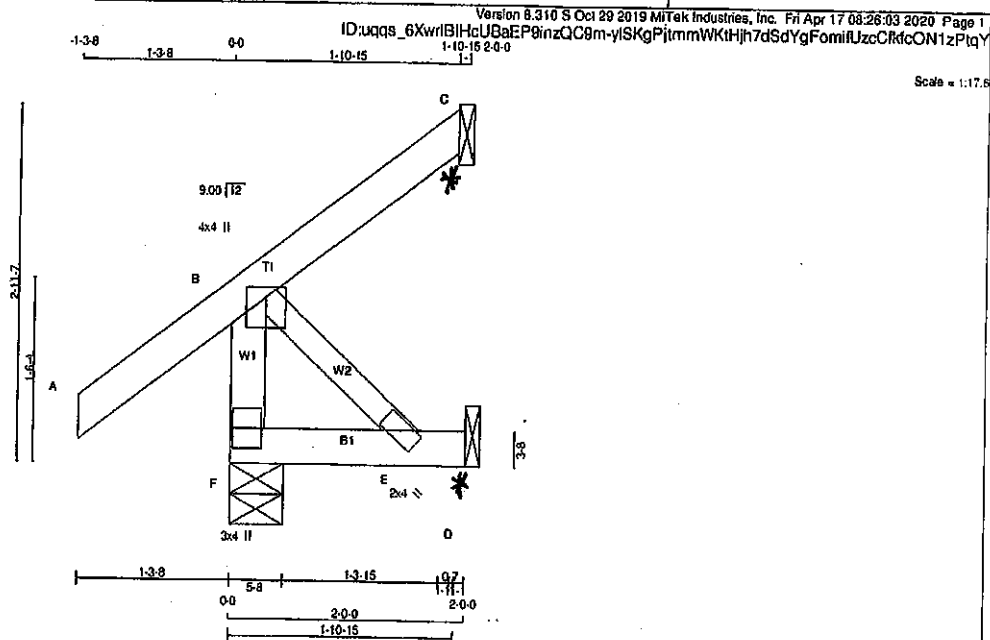
PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP= 0.21 (B) (INPUT = 0.90)
 ISI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
 DWG# T-2006432

JOB NAME 408188	TRUSS NAME C31	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER
N. L. G. A. RULES

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

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

DESCR.
SPF
SPF
SPF

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
	VERT	HORZ	IN-SX	IN-SX
F	278	0	5-8	5-8
C	42	0	1-8	1-8
D	19	0	1-8	1-8

* SEE MITTEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS				
		COMBINED	SNOW	LIVE	PERM. LIVE	WIND
F	194	145.0	0.0	0.0	0.0	49.0
C	29	23.0	0.0	0.0	0.0	5.0
D	15	0.0	0.0	0.0	0.0	15.0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSF (LC)	UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSF (LC)
FR-TO									
F-B	-260.0	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)	
A-B	0.38	-91.8	-91.8	0.12 (1)	10.00				
B-C	-27.0	-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

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 2015, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-00, CSA 085-14
- 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/899 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/899 (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=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

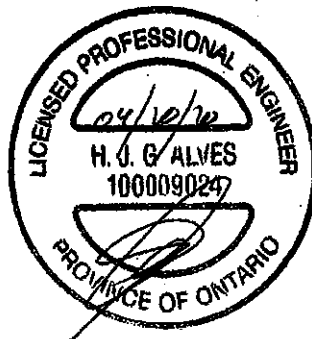
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 Inches

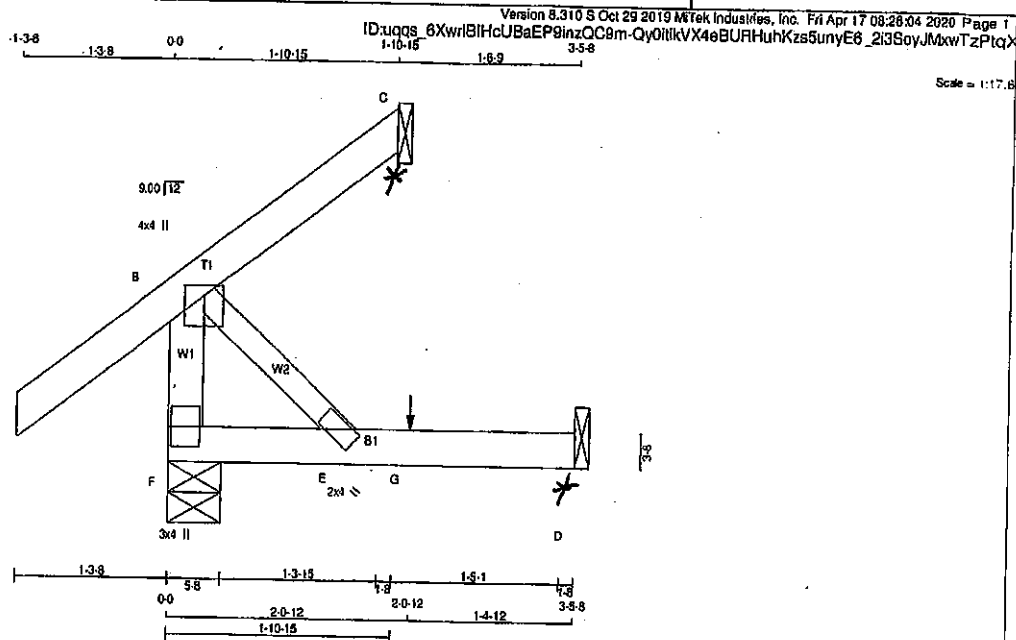
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006433

JOB NAME 408188	TRUSS NAME C32	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

DESCR.
SPF
SPF
SPF

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
F	292	0	292	0	5-8	5-8
C	42	0	42	0	1-8	1-8
D	32	0	38	0	1-8	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 CASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	205	145.0	0.0	0.0	0.0	60.0	0.0
C	29	23.25	0.0	0.0	0.0	5.0	0.0
D	28	0.0	0.0	0.0	0.0	28.0	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 = 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: (5)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FACTORED	VERT. LOAD	LC1	MAX	MEMB.	MAX. FACTORED	FORCE	MAX
FR-TO	(LBS)	(PLF)	CSI (LC)	UNBRAC	FR-TO	(LBS)	CSI (LC)	
F-B	-260.0	0.0	0.0	0.03 (1)	7.81	B-E	0.0	0.00 (1)
A-B	0.38	-91.8	-91.8	0.14 (5)	10.00			
B-C	-27.0	-91.8	-91.8	0.13 (5)	6.25			
F-E	0.0	-18.5	-18.5	0.06 (4)	10.00			
E-G	0.0	-18.5	-18.5	0.06 (4)	10.00			
G-D	0.0	-18.5	-18.5	0.06 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G.	2-0-12	1	1	---	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 = 11 lb (M)

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 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 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 (0.01")

CSI: TC=0.14/1.00 (A-B-5), BC=0.06/1.00 (D-E-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

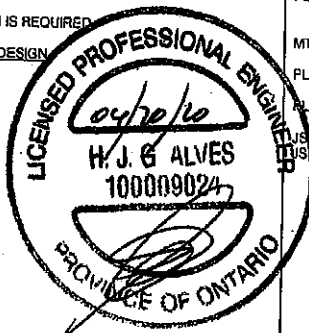
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

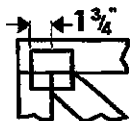
JS GRIP = 0.21 (B) (INPUT = 0.90)
JS METAL = 0.05 (B) (INPUT = 1.00)



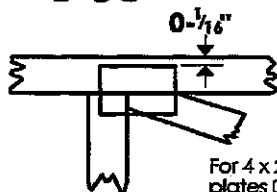
Structural component only
DWG# T-2006434

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 0-1/16" 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



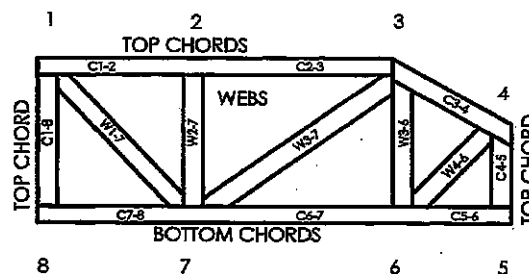
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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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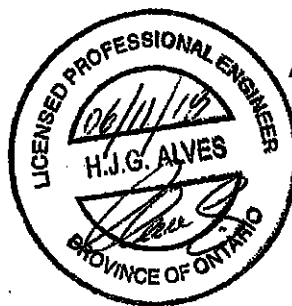
MiTek
POWER TO PERFORM.™

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.



Alves Engineering Services Inc.

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

RESPONSABILITIES

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

SPECIFICATIONS

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

T-1800218

Feb 09, 2018

TECH-NOTES

TN 15-001

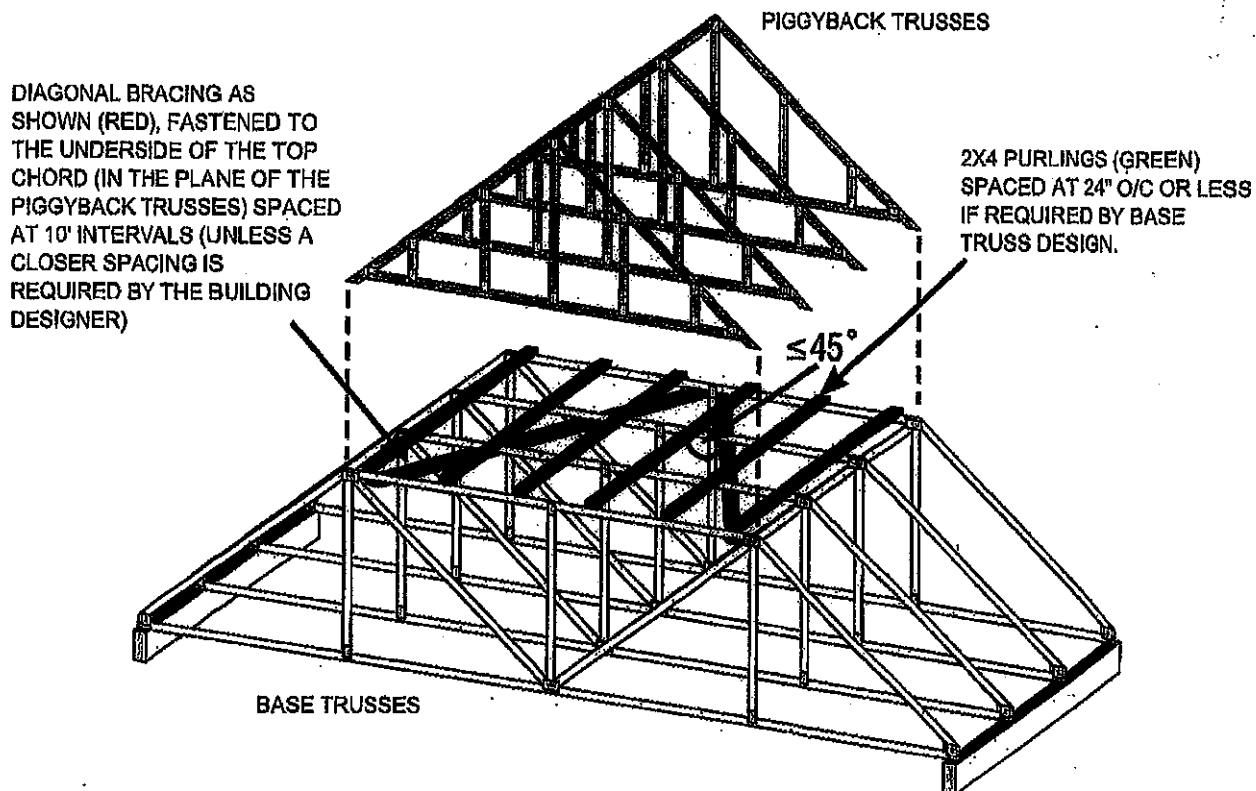
Piggyback Bracing

Overview:

Where piggybacks are connected overtop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

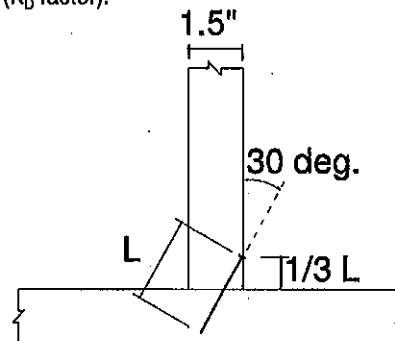
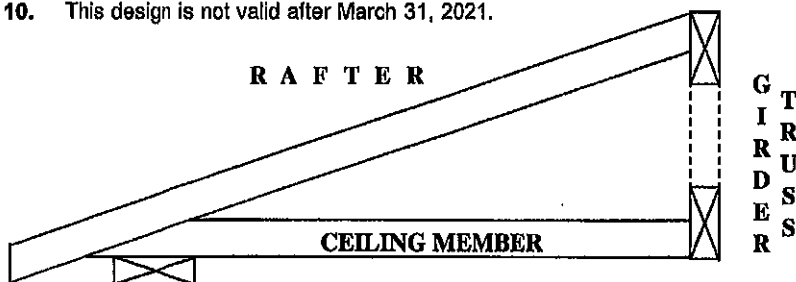
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

December 2, 2019

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

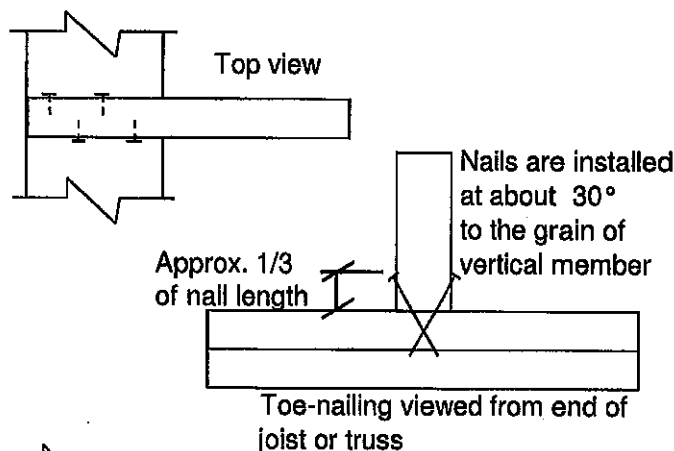
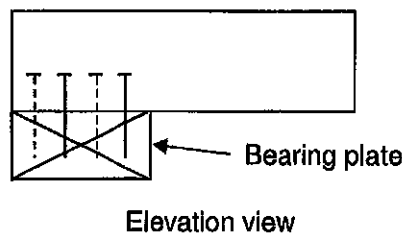
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

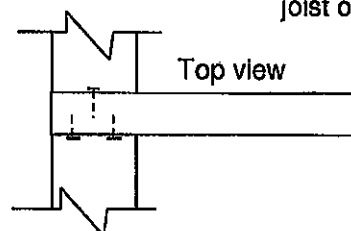
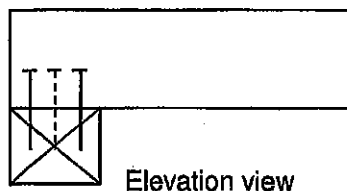
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

December 2, 2019

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:

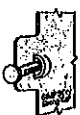
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



Double-Shear
Nailing
Top View

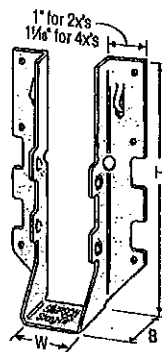
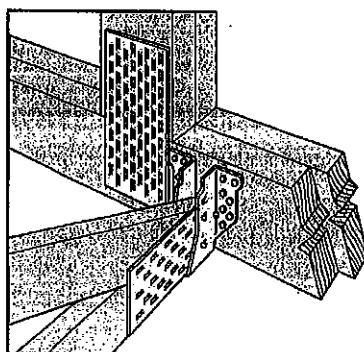


Double-Shear
Nailing
Side View;
Do not
bend tab

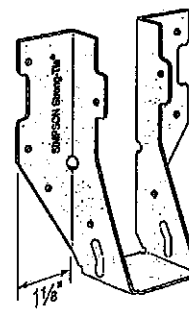


Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,580

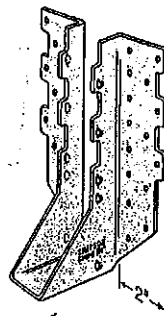
Typical HUS26
Installation
with Reduced
Heel Height
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



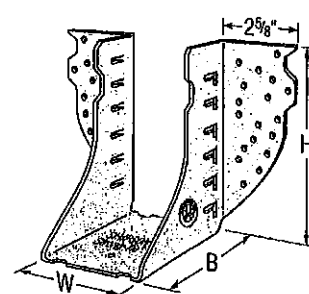
✓ LUS28



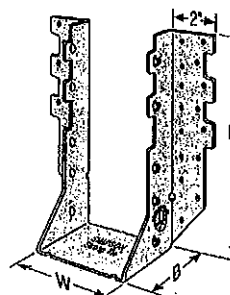
LU26L



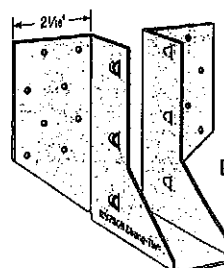
✓ HUS210
(HUS26, HUS28,
and HHUS similar)



✓ HGUS28-2



✓ HHUS210-2



LJS26DS

LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options information on pp. 125–127.

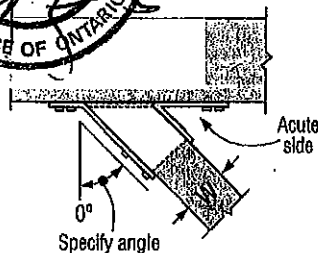
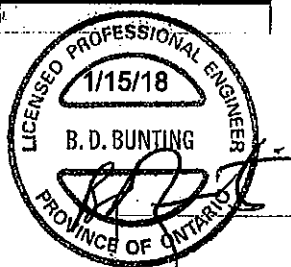
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.62 of table value	0.46 of table value
2" < W < 6"	Bevel cut	0.67 of table value	0.41 of table value
2" < W < 6"	Square cut	0.46 of table value	0.41 of table value
W > 6"	Bevel cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger
Skewed Right
(joist must be bevel cut)
All joist nails installed on the
outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _g ³	Header	Joist	D-Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15)	(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	1⅞	3⅜	1⅝	2¼	(4) 10d	(2) 10d	710	1625	645	1155
								3.16	7.23	2.87	5.14
LU24L	22	1⅞	3	1⅝	2⅞⅙	(4) 10d	(2) 10d x 1½"	360	1020	320	725
								1.60	4.54	1.42	3.22
LU26L	22	1⅞	5	1⅝	4⅝	(6) 10d	(4) 10d x 1½"	720	1605	645	1140
								3.20	7.14	2.87	5.07
LUS26	18	1⅞	4⅝	1⅝	3¾	(4) 10d	(4) 10d	1420	2170	1290	1630
								6.32	9.65	5.74	7.25
HUS26	16	1⅞	5⅝	3	3⅞⅙	(14) 16d	(6) 16d	2705	4940	2085	3875
								11.30	21.97	9.20	17.24
LJS26DS	18	1⅞	5	3½	4⅝	(16) 16d	(6) 16d	2055	4265	1460	4115
								9.14	18.97	6.49	18.31
HGUS26	12	1⅞	5⅝	5	4⅝	(20) 16d	(8) 16d	2685	6625	2685	5700
								11.96	29.51	11.96	25.35
LU28L	20	1⅞	6¾	1⅝	5⅝	(8) 10d	(6) 10d x 1½"	1140	2185	1020	1550
								5.07	9.72	4.54	6.89
LUS28	18	1⅞	6⅝	1⅝	3¾	(6) 10d	(4) 10d	1420	2520	1290	1780
								6.32	11.21	5.74	7.96
HUS28	16	1⅞	7⅞	3	6⅞	(22) 16d	(8) 16d	3605	5385	2675	4345
								16.04	23.86	11.90	19.33
HGUS28	12	1⅞	7⅞	5	6⅞	(36) 16d	(12) 16d	3310	7675	3310	6900
								14.74	34.19	14.74	30.73
LU210L	20	1⅞	8	1⅝	7⅝	(10) 10d	(6) 10d x 1½"	1140	2495	1020	1770
								5.07	11.10	4.54	7.87
LUS210	18	1⅞	7⅞⅙	1⅝	3⅝	(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_b is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

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 _a ¹	Header	Jolst	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
Double 2x Sizes											
■ LUS24-2	18	3½	3½	2	1½	(4) 16d	(2) 16d	835	2020	590	1435
								3.71	8.99	2.62	6.38
SS LUS26-2	18	3½	4½	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
■ HHUS26-2	14	3½	5½	3	3½	(14) 16d	(6) 16d	2850	7335	2065	5205
								12.68	32.63	9.20	23.15
HGUS26-2	12	3½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
SS LUS28-2	18	3½	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
■ HHUS28-2	14	3½	7½	3	6½	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS28-2	12	3½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
SS LUS210-2	18	3½	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
■ HHUS210-2	14	3½	9½	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000
								20.77	42.97	18.84	31.14
HGUS210-2	12	3½	9½	4	8½	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
Triple 2x Sizes											
HGUS26-3	12	4½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-3	12	4½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
■ HHUS210-3	14	4½	9	3	7½	(30) 16d	(10) 16d	4670	9670	4235	6865
								20.77	43.02	18.84	30.54
HGUS210-3	12	4½	9½	4	8½	(46) 16d	(16) 16d	6840	14645	4855	10400
								30.43	65.14	21.60	46.26
Quadruple 2x Sizes											
HGUS26-4	12	6½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-4	12	6½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
■ HHUS210-4	14	6½	8½	3	7½	(30) 16d	(10) 16d	4670	10155	4235	7210
								20.77	45.17	18.84	32.07
HGUS210-4	12	6½	9½	4	8½	(46) 16d	(16) 16d	6840	14645	4855	10400
								30.43	65.14	21.60	46.26
HGUS212-4	12	6½	10½	4	10½	(56) 16d	(20) 16d	7640	14995	5425	10845
								33.98	66.70	24.13	47.35
HGUS214-4	12	6½	12½	4	11½	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
■ LUS46	18	3½	4½	2	3½	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
■ HHUS46	14	3½	5½	3	3½	(14) 16d	(6) 16d	2540	7335	2065	5205
								11.30	32.63	9.20	23.15
HGUS46	12	3½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
■ LUS48	18	3½	6½	2	3½	(6) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
■ HHUS48	14	3½	7½	3	6½	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS48	12	3½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
■ LUS410	18	3½	8½	2	5½	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
HGUS410	12	3½	9	4	8½	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
HGUS412	12	3½	10½	4	10½	(56) 16d	(20) 16d	7640	14995	5425	10845
								33.98	66.70	24.13	47.35
HGUS414	12	3½	12½	4	11½	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes on p. 268.