

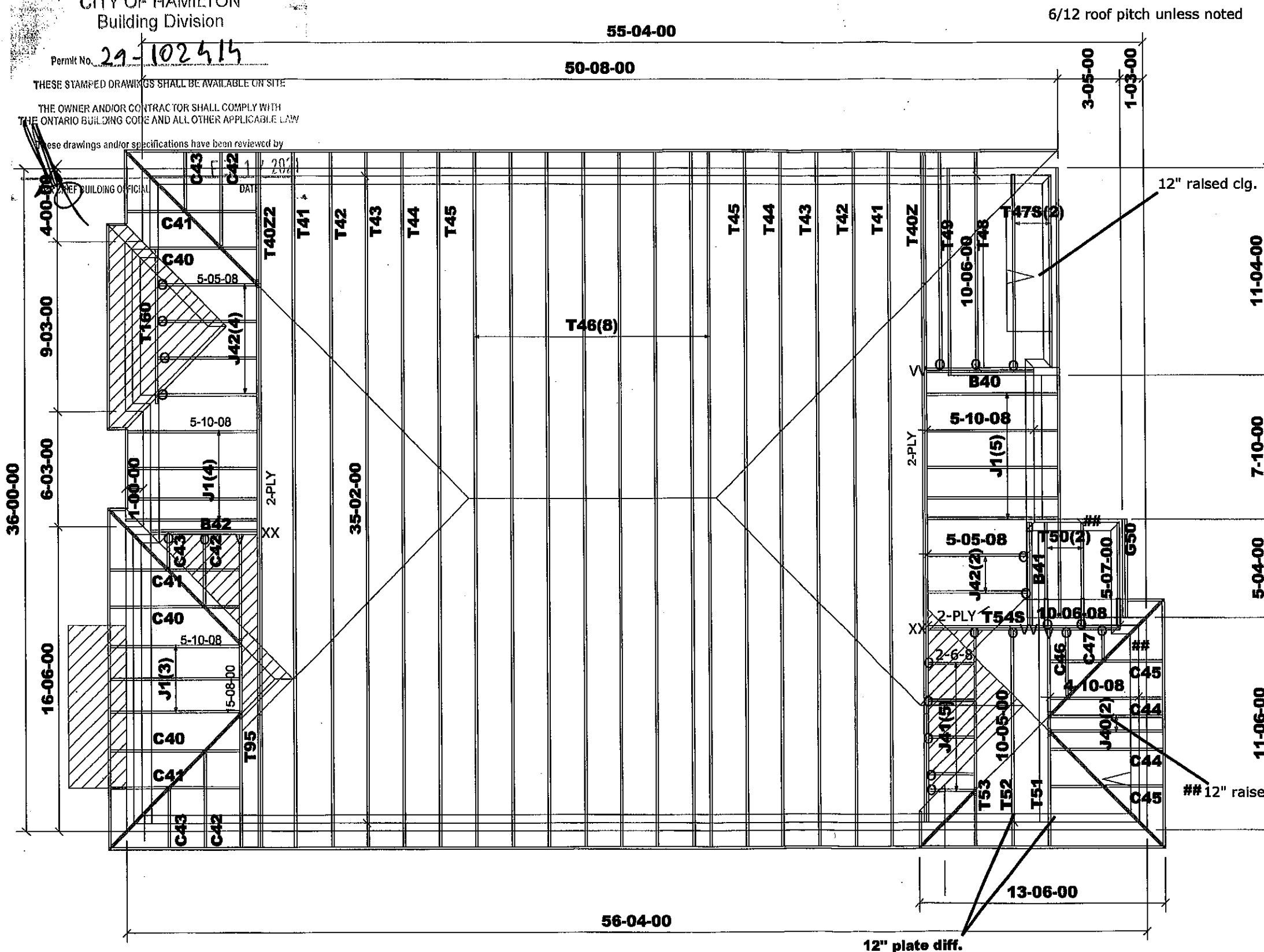
CITY OF HAMILTON
Building Division

Permit No. 29-102415

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

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

These drawings and/or specifications have been reviewed by



6/12 roof pitch unless noted

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

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

DESIGN CONFORMS WITH OBC 2012
(2019 amendment) OCCUPANCY:
RESIDENTIAL | PART: 9
Ss = 31.35 psf | Sr = 8.4 psf

DESIGN LOADS:
TCSL = 25.6 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

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

BEAMS:
B40= B41 = B42 =
2 - 2x10 SPF #2

 DENOTES:
CONVENTIONAL
FRAMING

M13138



Job Track: 51225
Plan Log: 202419
Layout ID: 411920

Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: RUSSELL GARDENS PH.3
Date: 2020-08-28 Sales: Mario DiCano Designer: JG

Model / Elevation:
MOUNTAINASH 6-012 /EL. 3 REAR UPGRADE

Mike ver 8.3.3.247

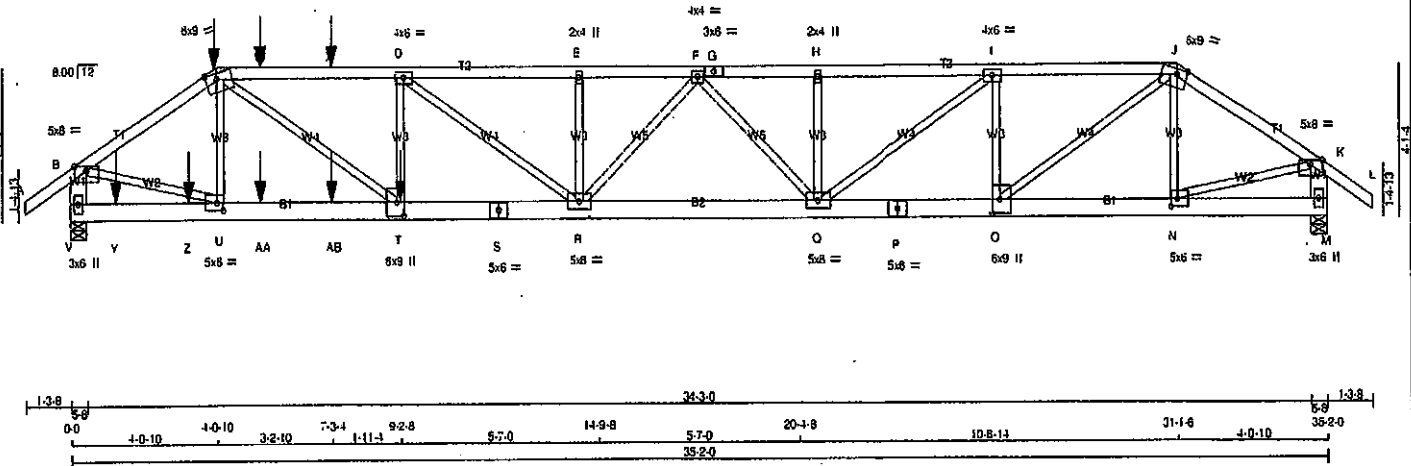
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TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	T1Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRAUSS DESC.	

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ID:DMCubINVR6TstFoe31v6l zns1l-nyjhmNBKcAvHCpOKTuoORWDoScNkApnRqDRR2zMFie

1-3-8 0-0 4-0-10 4-0-10 5-3-4 7-3-4 9-3-12 14-9-8 17-7-0 29-8 20-4-8 1-5-12 25-10-4 3-2 31-1-8 4-0-10 35-2-0 38-3-8
Scale = 1:57.6



TOTAL WEIGHT = 2 X 161 = 323 lb

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - G	12	SIDE(61.0)
C - G	12	SIDE(61.0)
G - J	12	TOP
J - L	12	TOP
V - B	12	TOP
M - K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V - S	12	SIDE(183.1)
S - P	12	SIDE(183.1)
P - M	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	SIDE(385.4)
D - T	4	SIDE(385.4)
I - O	4	SIDE(385.4)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	DOWN	IN-SX	IN-SX
V	4215	0	5-8	5-8
M	2722	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
V	2974	1987	0	0	0	987	0
M	1921	1293	0	0	0	638	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.00 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	MAX. CS	MEMB.	FORCE	MAX. CS
FR-TO		FROM TO	CS (LC)	FR-TO		CS (LC)
A-B	0 35	-91.8 -91.8 0.07 (1)	10.00	U-C	-783 0	0.10 (1)
B-C	-5115 0	-91.8 -91.8 0.28 (1)	4.07	C-T	0 4817	0.60 (1)
C-W	-8135 0	-91.8 -91.8 0.64 (1)	3.00	T-D	-622 0	0.08 (1)
W-X	-8135 0	-91.8 -91.8 0.64 (1)	3.00	O-I	-1797 0	0.23 (1)
X-D	-8135 0	-91.8 -91.8 0.64 (1)	3.00	O-J	0 3211	0.40 (1)
D-E	-8108 0	-91.8 -91.8 0.59 (1)	3.05	N-J	-512 0	0.06 (1)
E-F	-8106 0	-91.8 -91.8 0.32 (1)	3.28	B-U	0 4370	0.54 (1)
F-G	-8928 0	-91.8 -91.8 0.28 (1)	3.57	N-K	0 2899	0.33 (1)
G-H	-8926 0	-91.8 -91.8 0.28 (1)	3.57	O-I	0 2133	0.28 (1)
H-I	-8926 0	-91.8 -91.8 0.45 (1)	3.48	D-H	-37 24	0.01 (1)
I-J	-5210 0	-91.8 -91.8 0.34 (1)	3.98	Q-H	-365 0	0.05 (1)
J-K	-3153 0	-91.8 -91.8 0.19 (1)	5.04	R-F	-343 0	0.04 (1)
K-L	0 35	-91.8 -91.8 0.07 (1)	10.00	R-F	0 692	0.09 (1)
V-B	-4180 0	0.0 0.0 0.15 (1)	6.99	F-Q	-1081 0	0.23 (1)
M-K	-2696 0	0.0 0.0 0.10 (1)	7.81			

V-Y	0 0	-18.5 -18.5 0.05 (4)	10.00
Y-Z	0 0	-18.5 -18.5 0.05 (4)	10.00
Z-U	0 0	-18.5 -18.5 0.05 (4)	10.00
U-AA	0 4227	-18.5 -18.5 0.35 (1)	10.00
AA-AB	0 4227	-18.5 -18.5 0.35 (1)	10.00
AB-T	0 4227	-18.5 -18.5 0.35 (1)	10.00
T-S	0 8135	-18.5 -18.5 0.61 (1)	10.00
S-R	0 8135	-18.5 -18.5 0.61 (1)	10.00
R-Q	0 7645	-18.5 -18.5 0.56 (1)	10.00
Q-P	0 5210	-18.5 -18.5 0.38 (1)	10.00
P-O	0 5210	-18.5 -18.5 0.38 (1)	10.00
O-N	0 2604	-18.5 -18.5 0.19 (1)	10.00
N-M	0 0	-18.5 -18.5 0.03 (4)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	HEEL	CONN.
C	4-0-10	-49	-55	---	FRONT	VERT	---	C1
T	4-0-10	-254	-254	---	FRONT	VERT	---	C1
C	9-2-8	-2179	-2179	---	BACK	VERT	---	C1
W	5-3-4	-110	-110	---	BACK	VERT	---	C1
X	7-3-4	-110	-110	---	BACK	VERT	---	C1
Y	1-3-4	-28	-28	---	BACK	VERT	---	C1
Z	3-3-4	-28	-28	---	BACK	VERT	---	C1
AA	5-3-4	-28	-28	---	BACK	VERT	---	C1
AB	7-3-4	-28	-28	---	BACK	VERT	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2010
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, 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 25.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17)
CALCULATED VERT. DEFL.(LL) = L/999 (0.24)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/954 (0.44)

CS: TC=0.84/1.00 (C-D:1), BC=0.61/1.00 (R-T:1), WB=0.60/1.00 (C-T:1), SSI=0.17/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

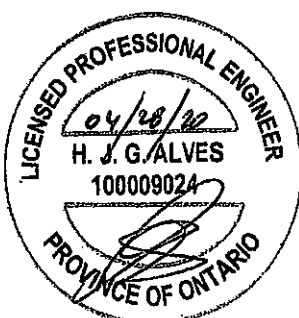
PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MT20	618 354 1867 788 1987 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (J) INPUT = 0.90
JSI METAL= 0.77 (P) INPUT = 1.00

CONTINUED ON PAGE 2



Structural component only
DWG# T-2007603 1/6

Tamarack Roof Truss, Burlington

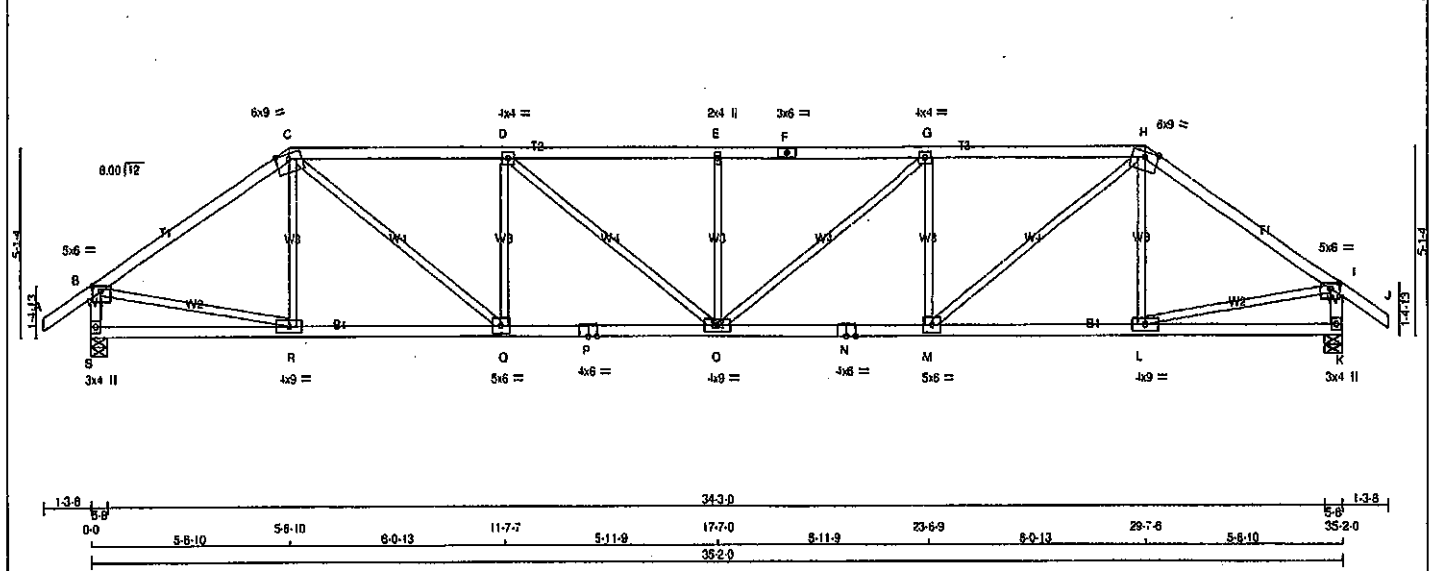
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1-3-8 0-0 5-6-10 11-7-7 17-0 23-6-9 29-7-6 35-2-0 35-8-8

1-3-8 5-6-10 8-0-13 5-11-9 5-11-9 8-0-13 5-8-10 1-3-8

Scale = 1:57.0



TOTAL WEIGHT = 2 X 140 = 280 lb

DRY; SEASONED LUMBER.

PLATES (tablets/inches)		PLATES		W	LEN	Y	X
J	TYPE						
B	TMW-w	MT20		5.0	8.0	1.75	2.75
C	TTWW-m	MT20		6.0	9.0		Edge
D	TMWW-i	MT20		4.0	4.0		
E	TMW-w	MT20		2.0	4.0		
F	TS-i	MT20		3.0	6.0		
G	BMWW-i	MT20		4.0	4.0		
H	TTWW-m	MT20		6.0	9.0		Edge
I	TMW-p	MT20		5.0	8.0	1.75	2.75
K	BMV-i-p	MT20		3.0	4.0		
L	BMWW-i	MT20		4.0	9.0		
M	BMWW-i	MT20		5.0	6.0		
N	BS-i	MT20		4.0	6.0		
O	BMWWW-i	MT20		4.0	9.0		
P	BS-i	MT20		4.0	6.0		
Q	BMWW-i	MT20		5.0	6.0		
R	BMWW-i	MT20		4.0	9.0		
S	BMV-i-p	MT20		3.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQ'D
GROSS REACTION		GROSS REACTION				BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
S	2065	0	2065	0	0	5-8	5-8
K	2065	0	2065	0	0	5-8	5-8

UNFACTORED REACTIONS	
1ST CASE	MAY. MIN. COMPONENT REACTIONS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1458	970 0	0 0	0 0	0 0	488 0	0 0
K	1458	970 0	0 0	0 0	0 0	488 0	0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)									
CHORDS				WEBS					
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	CS1 (LBS)	MAX. UNBRAC (LBS)	MEMB.	FORCE (LBS)	MAX. CS1 (LBS)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 35	-91.8	-91.8 0.12 (1)	10.00	R-C	-243 10	0.09 (1)		
B-C	-2298 0	-91.8	-91.8 0.70 (1)	3.78	C-Q	0 1670	0.38 (1)		
C-D	-3213 0	-91.8	-91.8 0.80 (1)	3.19	Q-O	-929 0	0.38 (1)		
D-E	-3594 0	-91.8	-91.8 0.68 (1)	2.97	D-O	0 490	0.11 (1)		
E-F	-3594 0	-91.8	-91.8 0.68 (1)	2.97	O-E	-505 0	0.19 (1)		
F-G	-3594 0	-91.8	-91.8 0.68 (1)	2.97	O-G	0 490	0.11 (1)		
G-H	-3213 0	-91.8	-91.8 0.80 (1)	3.19	M-G	-929 0	0.38 (1)		
H-I	-2298 0	-91.8	-91.8 0.70 (1)	3.78	M-H	0 1670	0.38 (1)		
I-J	0 35	-91.8	-91.8 0.12 (1)	10.00	L-H	-243 10	0.09 (1)		
S-B	-2023 0	0.0	0.0 0.21 (1)	5.94	B-R	0 1943	0.44 (1)		
K-I	-2023 0	0.0	0.0 0.21 (1)	5.94	L-I	0 1943	0.44 (1)		
S-R	0 0	-18.5	-18.5 0.15 (4)	10.00					
R-Q	0 1903	-18.5	-18.5 0.39 (1)	10.00					
O-P	0 3213	-18.5	-18.5 0.58 (1)	10.00					
P-O	0 3213	-18.5	-18.5 0.58 (1)	10.00					
O-N	0 3213	-18.5	-18.5 0.58 (1)	10.00					
N-M	0 3213	-18.5	-18.5 0.68 (1)	10.00					
M-L	0 1903	-18.5	-18.5 0.39 (1)	10.00					
L-K	0 0	-18.5	-18.5 0.15 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=		38.0	PSF

SPACING = 24.0 IN. C/C

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

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

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN
LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF
LIVE LOAD

ALLOWABLE DEFL.(LL)= L 360 (1.17")
CALCULATED VERT. DEFL.(LL) = L 999 (0.21")
ALLOWABLE DEFL.(TL)= L 380 (1.17")
CALCULATED VERT. DEFL.(TL) = L 999 (0.39")

CSI: TC=0.86/1.00 (D-E:1), BC=0.58/1.00 (M-O:1),
WB=0.44/1.00 (I-L:1), SSF=0.28/1.00 (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	GRIP (DRY)		SHEAR		SECTION	
	(PSI)	(PLI)	(PLI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	818	354	1867	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

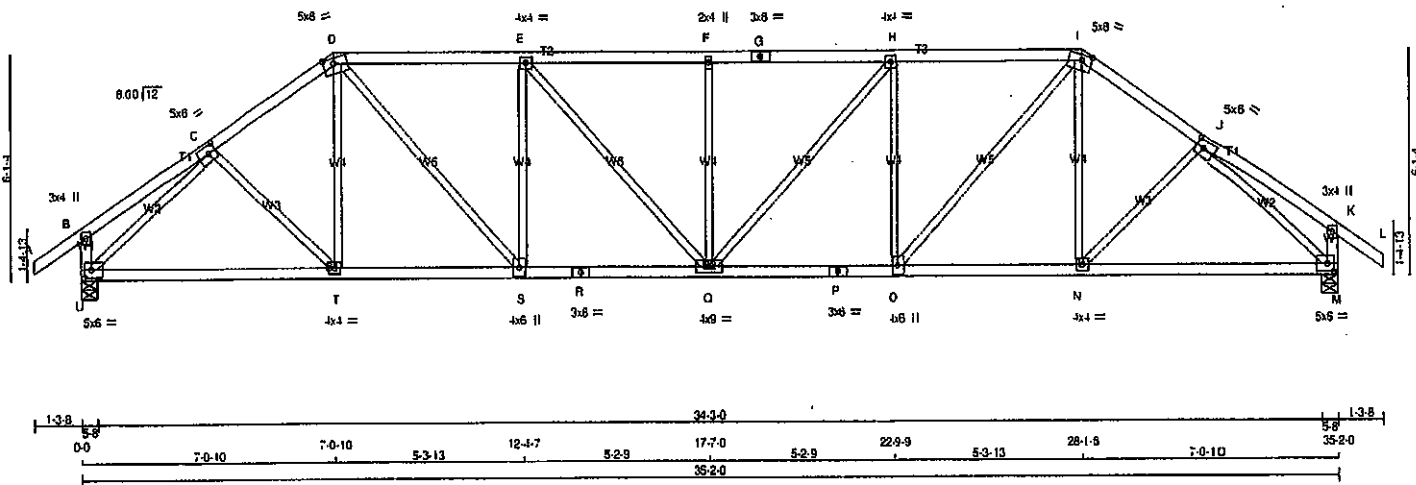
(continued)

JSI GRIP = 0.87 (I) INPUT = 0.90
JSI METAL = 0.74 (F) INPUT = 1.00



Structural component only
DWG# T-2007604

JOB NAME 408222	TRUSS NAME T3	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 28 09:00:06 2020 Page 1	ID:DMCubINVR6TstFoe31v6I_zns11-F8H4a[Cx5wlmvMOcuAP1x12QrG_VTXHwUz? UzMFid
1-3.8 0-0 3-7.9 3-7.9 7-0-10 5-3-13 12-4-7 5-2-9 17-7-0 5-2-9 22-9-9 5-3-13 28-1-6 3-5-1 3-7-9 3-5-8 1-3-8 Scale = 1:57.6					



TOTAL WEIGHT = 2 X 151 = 303 lb (M)

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

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

BEARINGS			
FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORIZ	DOWN	HORIZ
U 2065 0	2065 0	5-8	5-8
M 2065 0	2065 0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERALIVE	
U 1458 970.0	0.0	0.0	0.0	488 0
M 1458 970.0	0.0	0.0	0.0	488 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED	FACTORED	WEBS
	FORCE	VERT. LOAD	MAX. FACTORED
	(LBS)	(PLF)	FORCE
		CS (LC)	MAX
FR-TO		FROM TO	LENGTH FR-TO
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00
B-C	0 18	-91.8 -91.8 0.16 (1)	10.00
C-D	-2305 0	-91.8 -91.8 0.23 (1)	4.31
D-E	-2723 0	-91.8 -91.8 0.54 (1)	3.89
E-F	-2966 0	-91.8 -91.8 0.58 (1)	3.53
F-G	-2966 0	-91.8 -91.8 0.58 (1)	3.53
G-H	-2966 0	-91.8 -91.8 0.58 (1)	3.53
H-I	-2723 0	-91.8 -91.8 0.54 (1)	3.89
I-J	-2305 0	-91.8 -91.8 0.23 (1)	4.31
J-K	0 18	-91.8 -91.8 0.16 (1)	10.00
K-L	0 35	-91.8 -91.8 0.12 (1)	10.00
U-B	-255 0	0.0 0.0 0.03 (1)	7.81
M-K	-255 0	0.0 0.0 0.03 (1)	7.81
U-T	0 1801	-18.5 -18.5 0.40 (1)	10.00
T-S	0 1800	-18.5 -18.5 0.41 (1)	10.00
S-R	0 2723	-18.5 -18.5 0.49 (1)	10.00
R-Q	0 2723	-18.5 -18.5 0.49 (1)	10.00
Q-P	0 2723	-18.5 -18.5 0.49 (1)	10.00
P-O	0 2723	-18.5 -18.5 0.49 (1)	10.00
O-N	0 1900	-18.5 -18.5 0.41 (1)	10.00
N-M	0 1801	-18.5 -18.5 0.40 (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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CS: TC=0.58/1.00 (E-F:1), BC=0.49/1.00 (O-Q:1), WB=0.97/1.00 (J-M:1), SS=0.23/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.90 (M) (INPUT = 0.90)
JSI METAL=0.84 (I) (INPUT = 1.00)



Structural component only
DWG# T-2007605

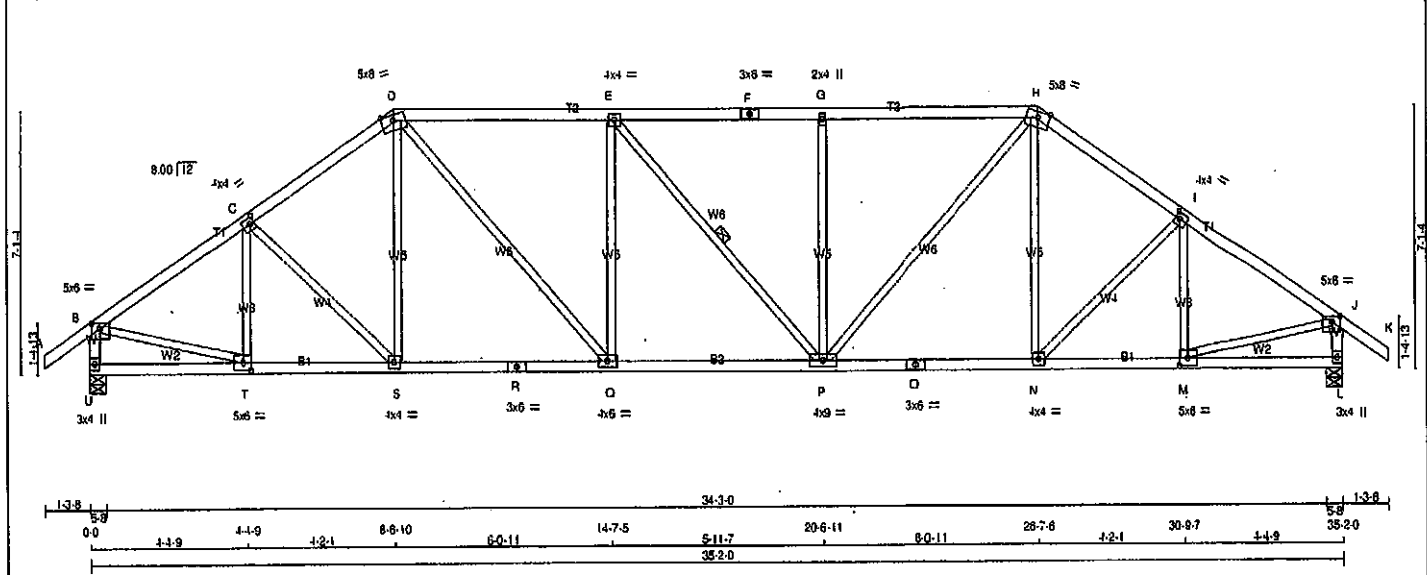
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	T4	2	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:DMCubiNVR6TstFoe31v6l_zns11-iLrSn2CZsDQdXWpSuwGTsbZigK2C5T4u8iYVWwzMFic

1-3.8 0.0 1-1.9 1-1.9 1-2.1 8-6-10 2-0-11 14-7-5 5-11-7 20-6-11 5-0-11 26-7-6 1-2-1 30-9-7 1-4-9 35-2-0 35-2-0 1-3-8
Scale = 1:57.6



TOTAL WEIGHT = 2 X 155 = 309 lb

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

PLATES (tablets in inches)			
JT TYPE	PLATES	W	LEN Y X
B TMW-p	MT20	5.0	6.0 1.75 2.75
C TMW-W	MT20	4.0	4.0 2.00 1.50
D TTW-W	MT20	5.0	8.0 Edge
E TMW-W	MT20	4.0	4.0
F TS-1	MT20	3.0	6.0
G TMW-W	MT20	2.0	4.0
H TTW-W	MT20	5.0	8.0 Edge
I TMW-W	MT20	4.0	4.0 2.00 1.50
J TMW-p	MT20	5.0	8.0 1.75 2.75
L BMV1-p	MT20	3.0	4.0
M BMW-W	MT20	5.0	8.0 2.50 2.75
N BMW-W	MT20	4.0	4.0
O BS-1	MT20	3.0	6.0
P BMW-W	MT20	4.0	9.0
Q BMW-W	MT20	4.0	6.0
R BS-1	MT20	3.0	8.0
S BMW-W	MT20	4.0	4.0
T BMW-W	MT20	5.0	8.0 2.50 2.75
U BMV1-p	MT20	3.0	4.0

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

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

BEARINGS			
	FACTORED	MAXIMUM FACTORED	INPUT
	GROSS REACTION	GROSS REACTION	BRG
JT	VERT	DOWN	UP
U	2065	0	0
L	2065	0	0

UNFACTORED REACTIONS			
1ST CASE	MAX. MIN. COMPONENT REACTIONS		
JT	COMBINED	SNOW	LIVE
U	1458	970	0
L	1458	970	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1.2 LENGTH OF E-F.

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 (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO			
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00
B-C	-2289 0	-91.8 -91.8 0.37 (1)	4.19
C-D	-2254 0	-91.8 -91.8 0.36 (1)	4.21
D-E	-2485 0	-91.8 -91.8 0.84 (1)	3.72
E-F	-2483 0	-91.8 -91.8 0.84 (1)	3.72
F-G	-2483 0	-91.8 -91.8 0.84 (1)	3.72
G-H	-2483 0	-91.8 -91.8 0.83 (1)	3.74
H-I	-2254 0	-91.8 -91.8 0.36 (1)	4.21
I-J	-2289 0	-91.8 -91.8 0.37 (1)	4.19
J-K	0 35	-91.8 -91.8 0.12 (1)	10.00
U-B	-2027 0	0.0 0.0 0.21 (1)	5.84
L-J	-2026 0	0.0 0.0 0.21 (1)	5.84
U-T	0 0	-18.5 -18.5 0.08 (4)	10.00
T-S	0 1908	-18.5 -18.5 0.37 (1)	10.00
S-R	0 1853	-18.5 -18.5 0.36 (1)	10.00
R-Q	0 1853	-18.5 -18.5 0.36 (1)	10.00
Q-P	0 2485	-18.5 -18.5 0.47 (1)	10.00
P-O	0 1854	-18.5 -18.5 0.36 (1)	10.00
O-N	0 1854	-18.5 -18.5 0.36 (1)	10.00
N-M	0 1908	-18.5 -18.5 0.37 (1)	10.00
M-L	0 0	-18.5 -18.5 0.08 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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 (1.17')
CALCULATED VERT. DEFL.(LL) = L/999 (0.12')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/999 (0.24')

CSK TO = 0.64/1.00 (D-E:1), BC = 0.47/1.00 (P-Q:1), WB = 0.52/1.00 (E-Q:1), SS = 0.26/1.00 (D-E:1)

DOL LUMBER = 1.00 NAIL = 1.00 L/S BEND = 1.10 COMP = 1.10 SHEAR = 1.10 TENS = 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1867 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

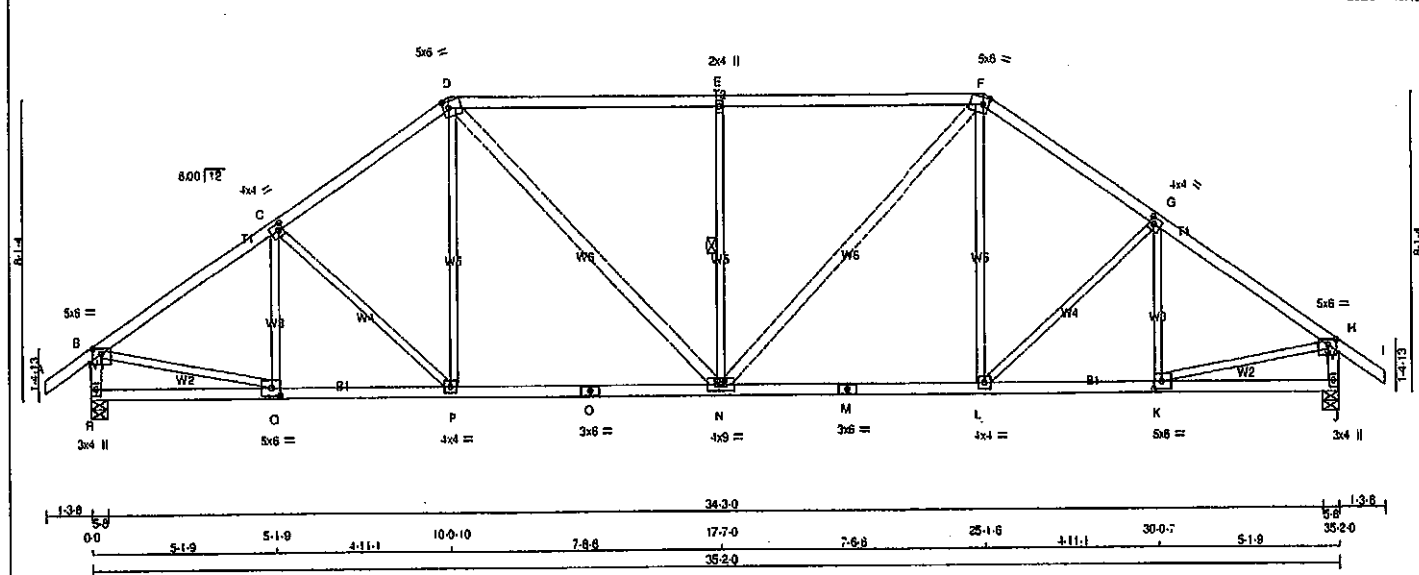
JSI GRIP = 0.90 (D) INPUT = 0.90 1

JSI METAL = 0.62 (D) INPUT = 1.00 1



Structural component only
DWG# T-2007606

JOB NAME 408222	TRUSS NAME T5	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 09:00:08 2020 Page 1
ID:DMCubINVR6TstFoe31v6I_zns1I-BXPq ODBdXUJ8Y77bRVO48iM4gExZrD7oS52NzMFk				Scale = 1:57.6	



TOTAL WEIGHT = 2 X 158 = 317 lb

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

PLATES (table in inches)			
JT TYPE	PLATES	W	LEN Y X
A - B	MT20	5.0	6.0 1.75 2.75
B - C	MT20	4.0	4.0 2.00 1.50
C - D	MT20	5.0	6.0 2.25 1.75
D - E	MT20	2.0	4.0
E - F	MT20	5.0	6.0 2.25 1.75
F - G	MT20	4.0	4.0 2.00 1.50
G - H	MT20	5.0	6.0 1.75 2.75
H - I	MT20	3.0	4.0
I - J	MT20	5.0	6.0 2.50 2.75
J - K	MT20	4.0	4.0
K - L	MT20	3.0	6.0
L - M	MT20	4.0	9.0
M - N	MT20	3.0	6.0
N - O	MT20	4.0	4.0
O - P	MT20	5.0	6.0 2.50 2.75
P - Q	MT20	4.0	4.0
Q - R	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 REORD
VERT			
DOWN			
UP			
UPLIFT			
IN-SX			
IN-SX			

UNFACTORED REACTIONS			
JT	1ST LOOSE	MAX. MIN. COMPONENT REACTIONS	
COMBINED			
SNOW			
LIVE			
PERM. LIVE			
WIND			
DEAD			
SOIL			

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC) UNBRAC
FR-TO			
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00
B-C	-2317 0	-91.8 -91.8 0.38 (1)	4.18
C-D	-2185 0	-91.8 -91.8 0.37 (1)	4.28
D-E	-2274 0	-91.8 -91.8 0.81 (1)	3.47
E-F	-2274 0	-91.8 -91.8 0.81 (1)	3.47
F-G	-2185 0	-91.8 -91.8 0.37 (1)	4.28
G-H	-2317 0	-91.8 -91.8 0.38 (1)	4.18
H-I	0 35	-91.8 -91.8 0.12 (1)	10.00
I-J	-2022 0	0.0 0.0 0.21 (1)	5.94
J-K	-2022 0	0.0 0.0 0.21 (1)	5.94
K-L	0 0	-18.5 -18.5 0.10 (4)	10.00
L-M	0 1953	-18.5 -18.5 0.40 (1)	10.00
M-N	0 1794	-18.5 -18.5 0.41 (1)	10.00
N-O	0 1794	-18.5 -18.5 0.41 (1)	10.00
O-P	0 1794	-18.5 -18.5 0.41 (1)	10.00
P-Q	0 1794	-18.5 -18.5 0.41 (1)	10.00
Q-R	0 1953	-18.5 -18.5 0.40 (1)	10.00
R-S	0 0	-18.5 -18.5 0.10 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CS: TC=0.81 1.00 (E-F:1), SC=0.41 1.00 (L-N:1), WB=0.45 1.00 (H-K:1), SSI=0.34 1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

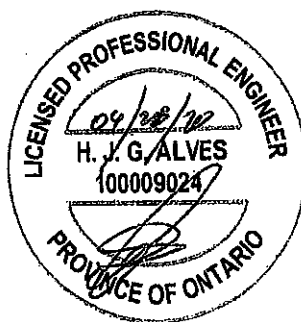
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(ORY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1897 798 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

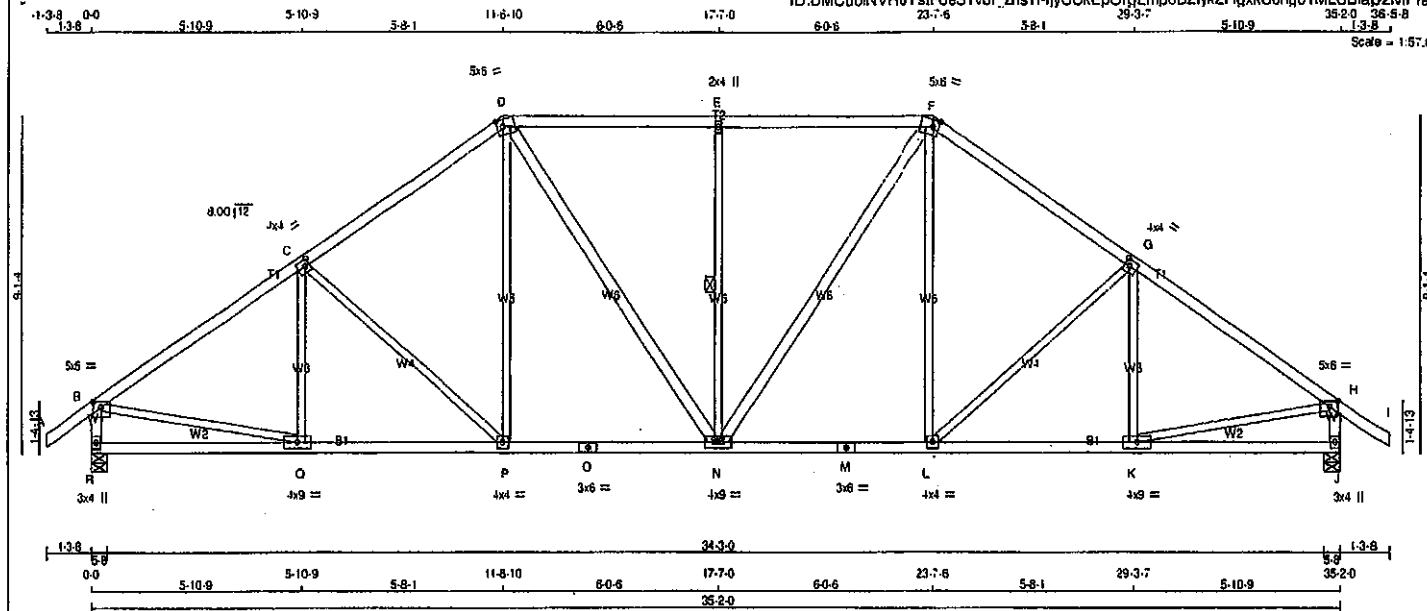


Structural component only
DWG# T-2007607

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	T6	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubNVR6TstFoe31v6I_zns11-fjyCCKepOrgLmp6BZlykZHqkU0ng01MLSBapzMFfa



TOTAL WEIGHT = 2 X 165 = 329 lb
[M/F]

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

DRY: SEASONED LUMBER.

PLATES (table in inches)	PLATES	W.	LEN	Y	X
JT TYPE	MT20	5.0	6.0	1.75	2.75
B	TMW-p	MT20	4.0	4.0	2.00 1.50
C	TMW-w	MT20	5.0	6.0	2.25 2.00
D	TTW-w	MT20	2.0	4.0	
E	TMW-w	MT20	5.0	6.0	2.25 2.00
F	TTW-w	MT20	4.0	4.0	2.00 1.50
G	TMW-w	MT20	5.0	6.0	1.75 2.75
H	BMW-i	MT20	3.0	4.0	
I	BMW-i	MT20	4.0	9.0	
L	BMW-w	MT20	4.0	9.0	
M	BS-i	MT20	3.0	6.0	
N	BMW-w	MT20	4.0	9.0	
O	BS-i	MT20	3.0	6.0	
P	BMW-w	MT20	4.0	9.0	
Q	BMW-w	MT20	4.0	9.0	
R	BMW-i	MT20	3.0	4.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORIZ	DOWN	HORIZ
R	2065	0	2065	0
J	2065	0	2065	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS								
JT	COMBINED	SNOW	LIVE	PERMALIVE	WIND	DEAD	SOIL		
R	1458	970	0	0	0	488	0	0	0
J	1458	970	0	0	0	488	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	MAX
MEMB.	FORCE	VERT.	LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH		(LBS)	CSI (LC)
FR-TO							FR-TO		
A-B	0 35	-91.8	-91.8	0.12 (1)	10.00	Q-C	-249	11	0.11 (1)
B-C	-2346	0	-91.8	-91.8	0.52 (1)	3.99	C-P	-366	0
C-D	-2095	0	-91.8	-91.8	0.48 (1)	4.22	P-D	0	0.341 (1)
D-E	-1985	0	-91.8	-91.8	0.48 (1)	4.26	D-N	0	0.477 (1)
E-F	-1985	0	-91.8	-91.8	0.48 (1)	4.26	N-E	-678	0
F-G	-2095	0	-91.8	-91.8	0.48 (1)	4.22	N-F	0	0.477 (1)
G-H	-2346	0	-91.8	-91.8	0.52 (1)	3.99	L-F	0	0.341 (1)
H-I	0 35	-91.8	-91.8	0.12 (1)	10.00	L-G	-356	0	0.42 (1)
R-B	-2016	0	0.0	0.0	0.21 (1)	5.94	K-G	-249	11
J-H	-2016	0	0.0	0.0	0.21 (1)	5.94	B-Q	0	0.2014 (1)
R-Q	0 0	-18.5	-18.5	0.14 (4)	10.00	K-H	0	0.2014 (1)	0.45 (1)
Q-P	0 1980	-18.5	-18.5	0.39 (1)	10.00				
P-O	0 1718	-18.5	-18.5	0.34 (1)	10.00				
O-N	0 1718	-18.5	-18.5	0.34 (1)	10.00				
N-M	0 1718	-18.5	-18.5	0.34 (1)	10.00				
M-L	0 1718	-18.5	-18.5	0.34 (1)	10.00				
L-K	0 1981	-18.5	-18.5	0.39 (1)	10.00				
K-J	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

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

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

THIS DESIGN COMPLIES WITH:

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

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 (1.17)
CALCULATED VERT. DEFL.(LL) = L 999 (0.10")
ALLOWABLE DEFL.(TL) = L 360 (1.17)
CALCULATED VERT. DEFL.(TL) = L 999 (0.19")

CSI: TC=0.52(1.00 (G-H:1), BC=0.39(1.00 (K-L:1), WB=0.45(1.00 (H-K:1), SB=0.27(1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

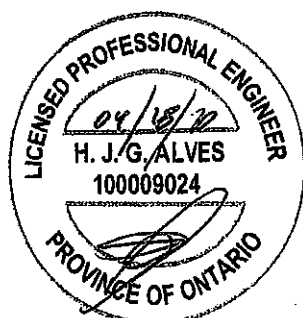
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



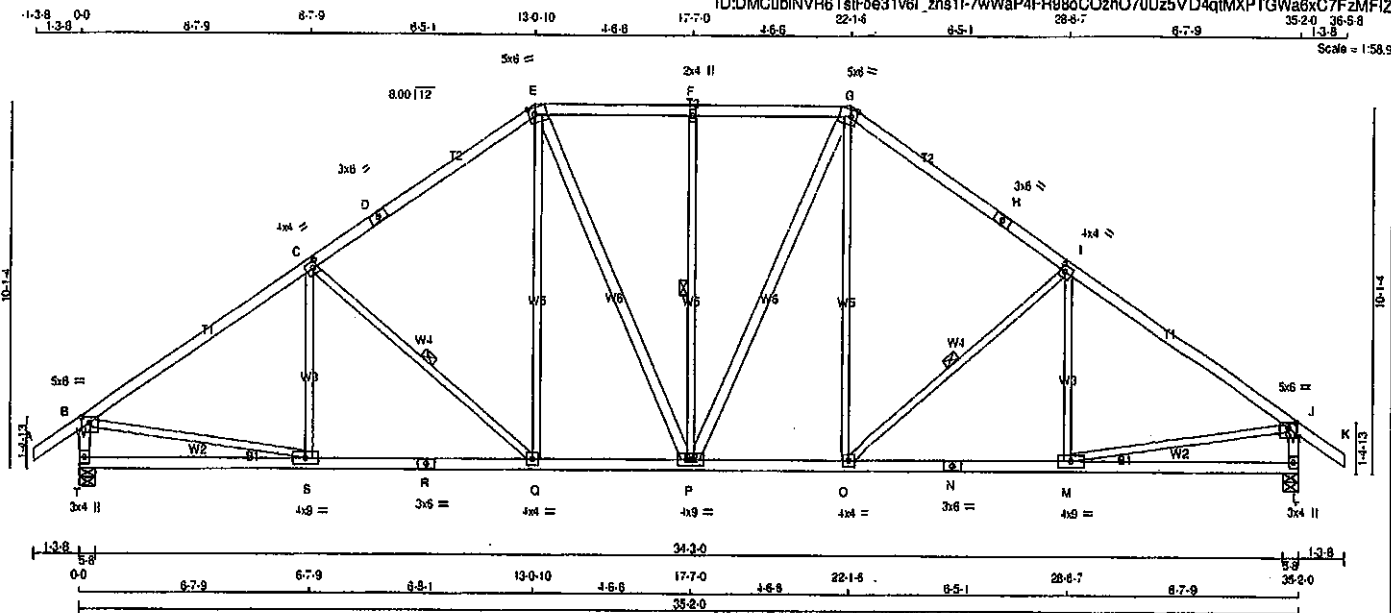
Structural component only
DWG# T-2007608

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	T7	6	1	TRUSS DESC.		

Famarack Roof Truss, Burlington

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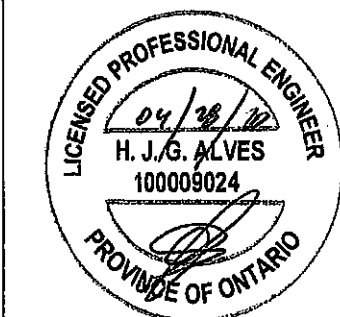
TOTAL WEIGHT = 6 X 172 = 1030 lb

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.75	2.75
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	2.00
F	TMVW-w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	6.0	2.25	2.00
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	1.75	2.75
L	BMV1-p	MT20	3.0	4.0		
M	BMVW-t	MT20	4.0	9.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	4.0		
P	BMVW-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	4.0	9.0		
T	BMV1-p	MT20	3.0	4.0		



Structural component only
DWG# T-2007609

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

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

UNFACTORED REACTIONS

IST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD
T	1458	970.0	0.0	0.0	0.0	488.0
L	1458	970.0	0.0	0.0	0.0	488.0

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

BRACING

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

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

1 LATERAL BRACE(S) AT 1:2 LENGTH OF C-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

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	(PLF)	(LC)					FORCE	MEMB.	FORCE
FR-TO										
A-B	0.35	-91.8	-91.8	0.12 (1)	10.00	S-C	-189	46	0.10 (1)	
B-C	-2368	0	-91.8	-91.8	0.69 (1)	3.77	C-D	-484	0	0.24 (1)
C-D	-1996	0	-91.8	-91.8	0.62 (1)	4.11	D-E	0	415	0.09 (1)
D-E	-1996	0	-91.8	-91.8	0.62 (1)	4.11	E-F	0	315	0.05 (1)
E-F	-1761	0	-91.8	-91.8	0.27 (1)	4.77	F-G	-502	0	0.35 (1)
F-G	-1761	0	-91.8	-91.8	0.27 (1)	4.77	G-H	0	315	0.05 (1)
G-H	-1996	0	-91.8	-91.8	0.62 (1)	4.11	H-I	-1996	0	0.09 (1)
H-I	-1996	0	-91.8	-91.8	0.62 (1)	4.11	I-J	-2358	0	0.24 (1)
I-J	-2358	0	-91.8	-91.8	0.69 (1)	3.77	J-K	0	415	0.10 (1)
J-K	0.35	-91.8	-91.8	0.12 (1)	10.00	K-L	0	2021	0.45 (1)	
K-L	-2014	0	0.0	0.0	0.21 (1)	5.95	L-M	0	2021	0.45 (1)
L-M	-2014	0	0.0	0.0	0.21 (1)	5.95				
T-S	0.0	-18.5	-18.5	0.19 (4)	10.00					
S-R	0.1995	-18.5	-18.5	0.42 (1)	10.00					
R-Q	0.1995	-18.5	-18.5	0.42 (1)	10.00					
Q-P	0.1829	-18.5	-18.5	0.32 (1)	10.00					
P-O	0.1829	-18.5	-18.5	0.32 (1)	10.00					
O-N	0.1995	-18.5	-18.5	0.42 (1)	10.00					
N-M	0.1995	-18.5	-18.5	0.42 (1)	10.00					
M-L	0.0	-18.5	-18.5	0.19 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, 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) = $L/360 (1.17')$
CALCULATED VERT. DEFL.(LL) = $L/999 (0.09')$
ALLOWABLE DEFL.(TL) = $L/360 (1.17')$
CALCULATED VERT. DEFL.(TL) = $L/999 (0.18')$

CS: TC=0.69/1.00 (J-J:1), BC=0.42/1.00 (M-O:1),
WB=0.45/1.00 (J-M:1), SS=0.24/1.00 (J-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

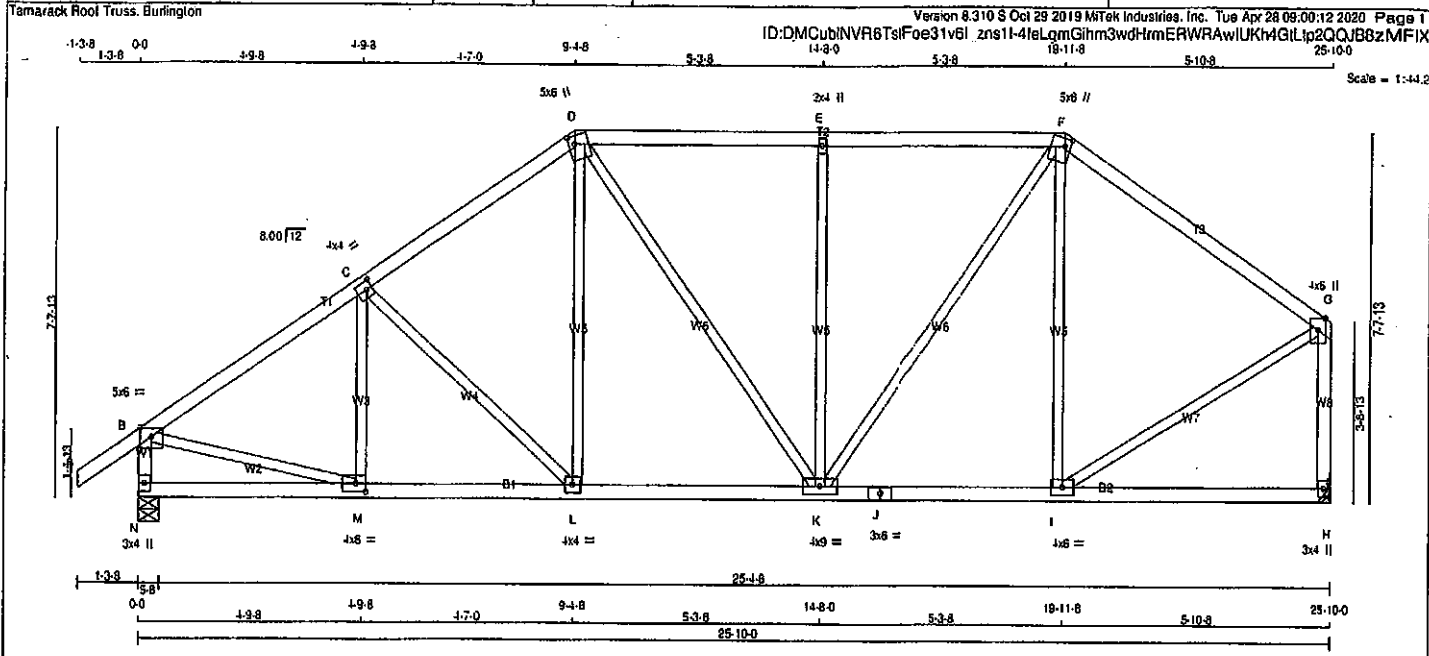
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (J) (INPUT = 0.90)
JSI METAL = 0.87 (N) (INPUT = 1.00)



LUMBER
N. L. G. A. RULES

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

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTVW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW-w	MT20	2.0	4.0		
F	TTVW+m	MT20	5.0	6.0	2.00	1.50
G	TMVW-p	MT20	4.0	6.0	Edge	
H	BMVW-p	MT20	3.0	4.0		
I	BMVW-t	MT20	4.0	6.0		
J	BS-t	MT20	3.0	6.0		
K	BMVW-w	MT20	4.0	9.0		
L	BMVW-t	MT20	4.0	4.0		
M	BMVW-t	MT20	4.0	6.0	2.00	2.50
N	BMVW-p	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
N	1550	0	1550	0	5-8	5-8
H	1424	0	1424	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
N	1084	731	0	0	0	363	0
H	1007	681	0	0	0	346	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00	M-C	-217 3	0.07 (1)	
B-C	-1609 0	-91.8 -91.8 0.28 (1)	4.93	C-L	-273 0	0.20 (1)	
C-D	-1425 0	-91.8 -91.8 0.28 (1)	5.17	L-D	0 280	0.06 (1)	
D-E	-1272 0	-91.8 -91.8 0.35 (1)	5.30	D-K	0 185	0.04 (1)	
E-F	-1272 0	-91.8 -91.8 0.35 (1)	5.30	K-E	-595 0	0.64 (1)	
F-G	-1077 0	-91.8 -91.8 0.43 (1)	5.52	K-F	0 655	0.15 (1)	
N-B	-1511 0	0.0 0.0 0.16 (1)	6.68	I-F	-390 0	0.42 (1)	
H-G	-1380 0	0.0 0.0 0.32 (1)	6.92	B-M	0 1396	0.31 (1)	
				I-G	0 1031	0.23 (1)	
N-M	0 0	-18.5 -18.5 0.09 (4)	10.00				
M-L	0 1362	-18.5 -18.5 0.27 (1)	10.00				
L-K	0 1164	-18.5 -18.5 0.24 (1)	10.00				
K-J	0 890	-18.5 -18.5 0.23 (1)	10.00				
J-I	0 890	-18.5 -18.5 0.23 (1)	10.00				
I-H	0 0	-18.5 -18.5 0.15 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.86")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.86")
CALCULATED VERT. DEFL.(TL) = L/998 (0.09")

CSI: TC=0.43/1.00 (F-G:1), BC=0.27/1.00 (L-M:1), WB=0.64/1.00 (E-K:1), SS=0.23/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1 10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

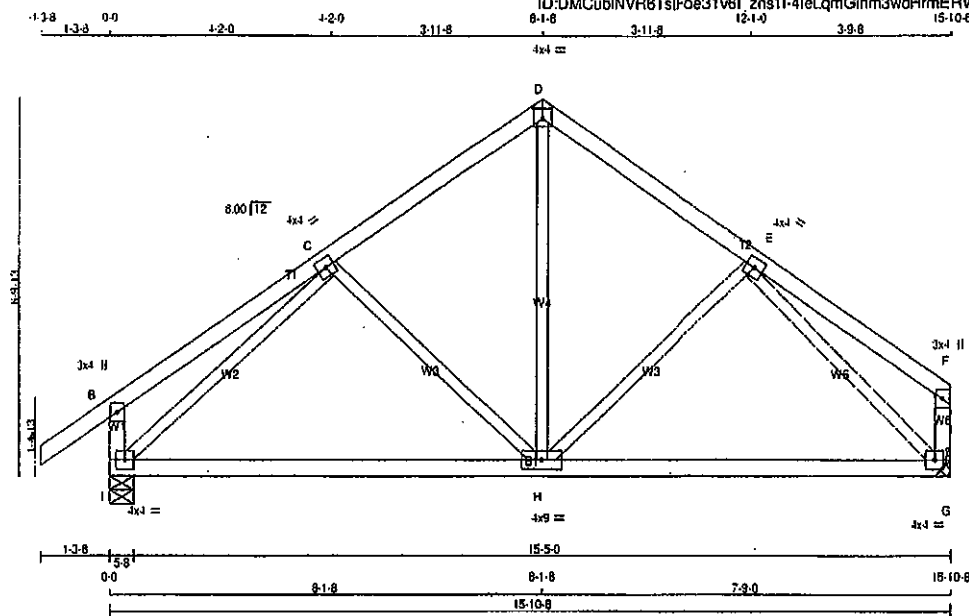
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.58 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007612.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	T11A	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 09:00:12 2020 Page 1			
		ID:DMCubINVR6TsFoe31v6I zns11-4leLqmGihm3wdHrmERWRAwIXHh2PiN5p2QQJB8zMFIX			



TOTAL WEIGHT = 2 X 68 = 133 lb (M)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0			
C TMWW-I	MT20	4.0	4.0			
D TTW-p	MT20	4.0	4.0	2.25	2.00	
E TMWW-I	MT20	4.0	4.0			
F TMV+p	MT20	3.0	4.0			
G BMWW-I	MT20	4.0	4.0			
H BMWW-I	MT20	4.0	9.0			
I BMWW-I	MT20	4.0	4.0			

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UP
I	1001	0	1001	0
G	875	0	875	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	706	476 0	0 0	0 0	0 0	228 0	0 0
G	619	406 0	0 0	0 0	0 0	213 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 35	-91.8 -91.8 0.12 (1)	C-H	-228 0 0.12 (1)
B-C	0 24	-91.8 -91.8 0.24 (1)	H-D	0 -449 0.10 (1)
C-D	-891 0	-91.8 -91.8 0.19 (1)	D-E	-166 0 0.09 (1)
D-E	-689 0	-91.8 -91.8 0.17 (1)	E-F	0 -968 0.50 (1)
E-F	0 24	-91.8 -91.8 0.22 (1)	F-G	-971 0 0.44 (1)
F-G	-269 0	0 0 0.03 (1)		
G-F	-125 0	0 0 0.01 (1)		
I-H	0 722	-18.5 -18.5 0.39 (4)		
H-G	0 677	-18.5 -18.5 0.39 (4)		

DESIGN CRITERIA

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

SPACING = 24.0 IN. GC

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.24(1.00 (B-C:1), BC=0.39(1.00 (H-I:4), WB=0.50(1.00 (C-I:1), SS=0.15(1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (E) (INPUT = 0.90)
JSI METAL= 0.35 (C) (INPUT = 1.00)



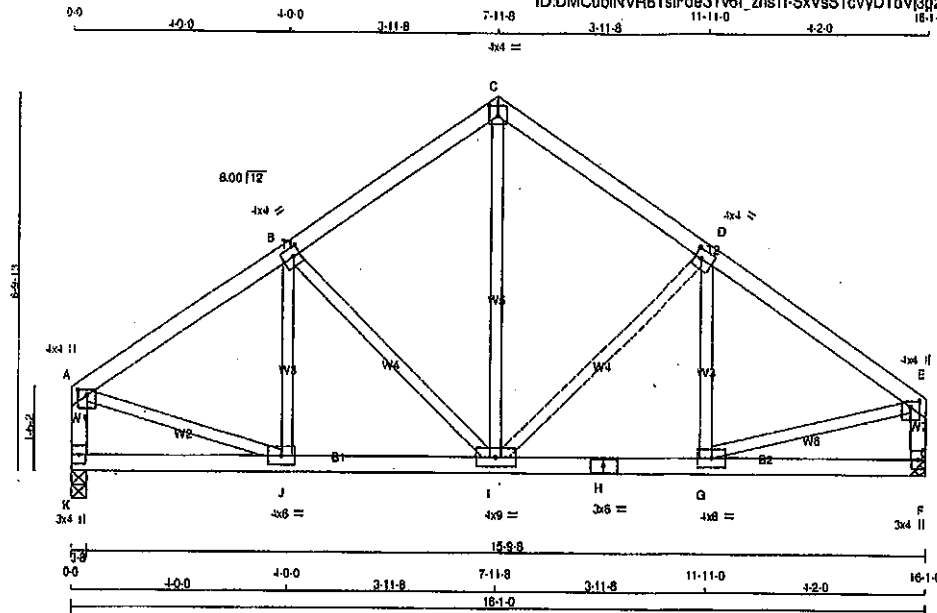
Structural component only
DWG# T-2007613

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	T11B	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1/32 S

TOTAL WEIGHT = 2 X 69 = 137 lb

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - TMVW+p	MT20	4.0	4.0	1.25	2.00
B - TMVW-l	MT20	4.0	4.0	2.00	1.50
C - TTV-p	MT20	4.0	4.0	2.25	2.00
D - TMVW-l	MT20	4.0	4.0	2.00	1.50
E - TMVW+p	MT20	4.0	4.0	1.25	2.00
F - BMVl+p	MT20	3.0	4.0		
G - BMVW-l	MT20	4.0	6.0		
H - BS-l	MT20	3.0	6.0		
I - BMVW-l	MT20	4.0	9.0		
J - BMVW-l	MT20	4.0	6.0		
K - BMVl+p	MT20	3.0	4.0		

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

BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
K	887 0	887 0	0	3-8
F	887 0	887 0	0	MECHANICAL

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
K	627	411 0 0 0 0 0 0 0 0 0 0
F	627	411 0 0 0 0 0 0 0 0 0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	UNBRACED LENGTH	WEBS	MAX. FACTORED MEMB. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	-886 0	-91.8 -91.8	0.19 (1)	8.25	J-B	-142 18	0.04 (1)
B-C	-887 0	-91.8 -91.8	0.18 (1)	8.25	B-I	-263 0	0.13 (1)
C-D	-888 0	-91.8 -91.8	0.19 (1)	8.25	I-C	0 461	0.10 (1)
D-E	-891 0	-91.8 -91.8	0.20 (1)	8.25	I-D	-292 0	0.15 (1)
K-A	-855 0	0.0 0.0	0.09 (1)	7.81	G-D	-117 28	0.03 (1)
F-E	-853 0	0.0 0.0	0.09 (1)	7.81	A-J	0 772	0.17 (1)
					G-E	0 787	0.18 (1)
K-J	0 0	-18.5 -18.5	0.07 (4)	10.00			
J-I	0 740	-18.5 -18.5	0.15 (1)	10.00			
I-H	0 781	-18.5 -18.5	0.15 (1)	10.00			
H-G	0 781	-18.5 -18.5	0.15 (1)	10.00			
G-F	0 0	-18.5 -18.5	0.07 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. CG

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.20/1.00 (D-E:1), BC=0.15/1.00 (G-I:1), WB=0.18/1.00 (E-G:1), SS=0.15/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

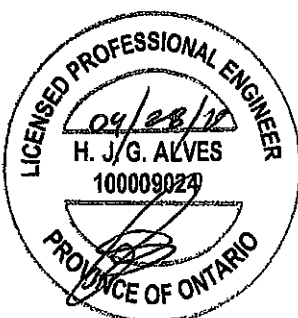
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (E) (INPUT = 0.90)
JSI METAL = 0.25 (H) (INPUT = 1.00)

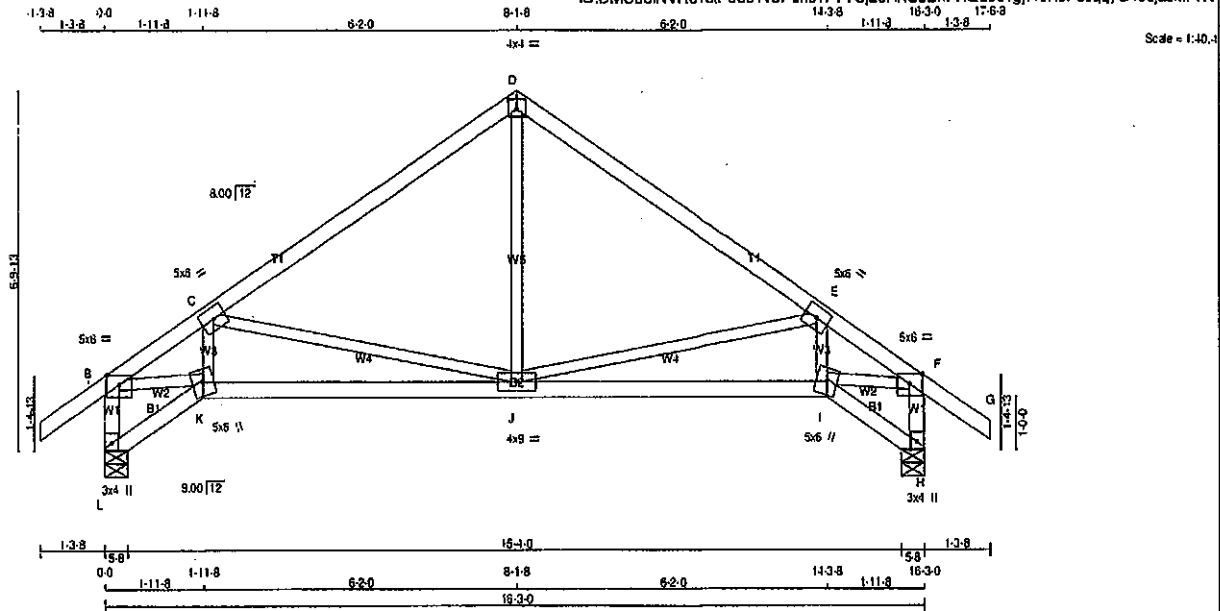


Structural component only
DWG# T-2007631

JOB NAME 408222	TRUSS NAME T11S	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6I zns11-YVCJ26HKS3BnFRQzo81gJ7reK5PdcqyG49sJazMFIV



TOTAL WEIGHT = 2 X 67 = 134 lb (M/F)

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

ALL WEBS 2x3 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	Edge	
C TMVW-i	MT20	5.0	6.0		
D TTW-p	MT20	4.0	4.0	2.25	2.00
E TMVW-i	MT20	5.0	6.0		
F TMVW-p	MT20	5.0	6.0	Edge	
H BMV1-p	MT20	3.0	4.0	Edge	
I BBIW-w	MT20	5.0	6.0		
J BMVW-w	MT20	4.0	9.0		
K BBIW-w	MT20	5.0	6.0		
L BMV1-p	MT20	3.0	4.0	Edge	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
L	1022	0	1022	0
H	1022	0	1022	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	COMBINED	SNOW	0	0	0	234	0
H	720	486	0	0	0	234	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.97 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
L-B	-1004	0	0.0 0.11 (1)	7.80	B-K	0 1321	0.30 (1)
A-B	0 35	-91.8 -91.8 0.12 (1)	10.00	K-C	0 55	0.02 (4)	
B-C	-1508	0	-91.8 -91.8 0.33 (1)	4.97	C-J	-859	0 46 (1)
C-D	-841	0	-91.8 -91.8 0.41 (1)	6.08	J-D	0 444	0 10 (1)
D-E	-841	0	-91.8 -91.8 0.42 (1)	6.07	E-J	-861	0 47 (1)
E-F	-1510	0	-91.8 -91.8 0.33 (1)	4.97	F-E	0 56	0.02 (4)
F-G	0 35	-91.8 -91.8 0.12 (1)	10.00	I-F	0 1323	0.30 (1)	
H-F	-1004	0	0.0 0.11 (1)	7.80			
L-K	0 0	-18.5 -18.5 0.02 (4)	10.00				
K-J	0 1319	-18.5 -18.5 0.33 (1)	10.00				
J-I	0 1320	-18.5 -18.5 0.33 (1)	10.00				
I-H	0 0	-18.5 -18.5 0.02 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. CG

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

THIS DESIGN COMPLES 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

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 (0.54")
CALCULATED VERT. DEFL. (LL) = L 999 (0.03")
ALLOWABLE DEFL. (TL) = L 360 (0.54")
CALCULATED VERT. DEFL. (TL) = L 999 (0.08")

CS: TC=0.42/1.00 (D-E:1), BC=0.33/1.00 (J-I:1), WB=0.47/1.00 (E-J:1), SS=0.21/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

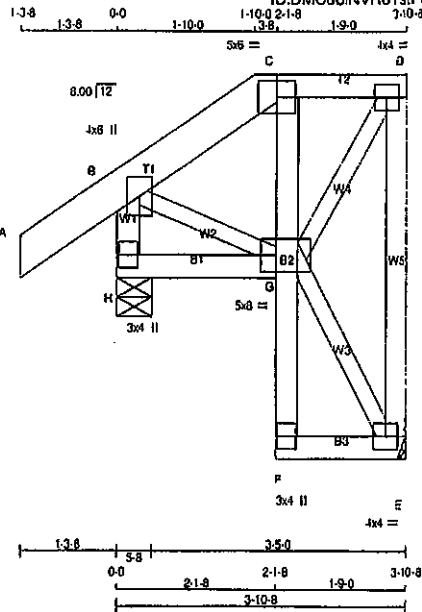
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (I) INPUT = 0.90
JSI METAL = 0.47 (K) INPUT = 1.00



Structural component only
DWG# T-2007614

JOB NAME 408222	TRUSS NAME T12S	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DWG NO.
Tamarack Roof Truss, Burlington					



Scale = 1:27.5

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR
A - C	2x6 DRY No.2	SPF			
C - D	2x4 DRY No.2	SPF			
E - D	2x4 DRY No.2	SPF			
H - B	2x4 DRY No.2	SPF			
H - G	2x4 DRY No.2	SPF			
F - C	2x4 DRY No.2	SPF			
F - E	2x4 DRY No.2	SPF			
ALL WEBS	2x3 DRY No.2	SPF			
EXCEPT					

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0		
C	TTV-m	MT20	5.0	6.0		
D	TMVW-1	MT20	4.0	4.0		
E	BMVW1-1	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BMVW1-1	MT20	5.0	8.0	2.50	2.50
H	BMV1+p	MT20	3.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX	BRG
E	214	0	214	0	0	0	5-8	5-8	
H	344	0	344	0	0	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	151	99	0	0	0	0	52
H	241	172	0	0	0	0	69

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 = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
A-B	0 36	G-D	0 139
B-C	-105 0	B-G	0 96
C-D	-79 0	G-E	-3 0
E-D	-196 0		
H-B	-323 0		
H-G	0 0		
F-G	0 17		
G-C	-119 0		
F-E	0 2		

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. CC

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 086-09, CSA 086-14
- TPC 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/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.08/1.00 (D-E:1), BC=0.03/1.00 (G-H:4), WB=0.03/1.00 (D-G:1), SSI=0.07/1.00 (A-B:5)

DOL LUMBER=1.03 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)
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 = 0.19 (B) INPUT = 0.90
JSI METAL = 0.11 (B) INPUT = 1.00



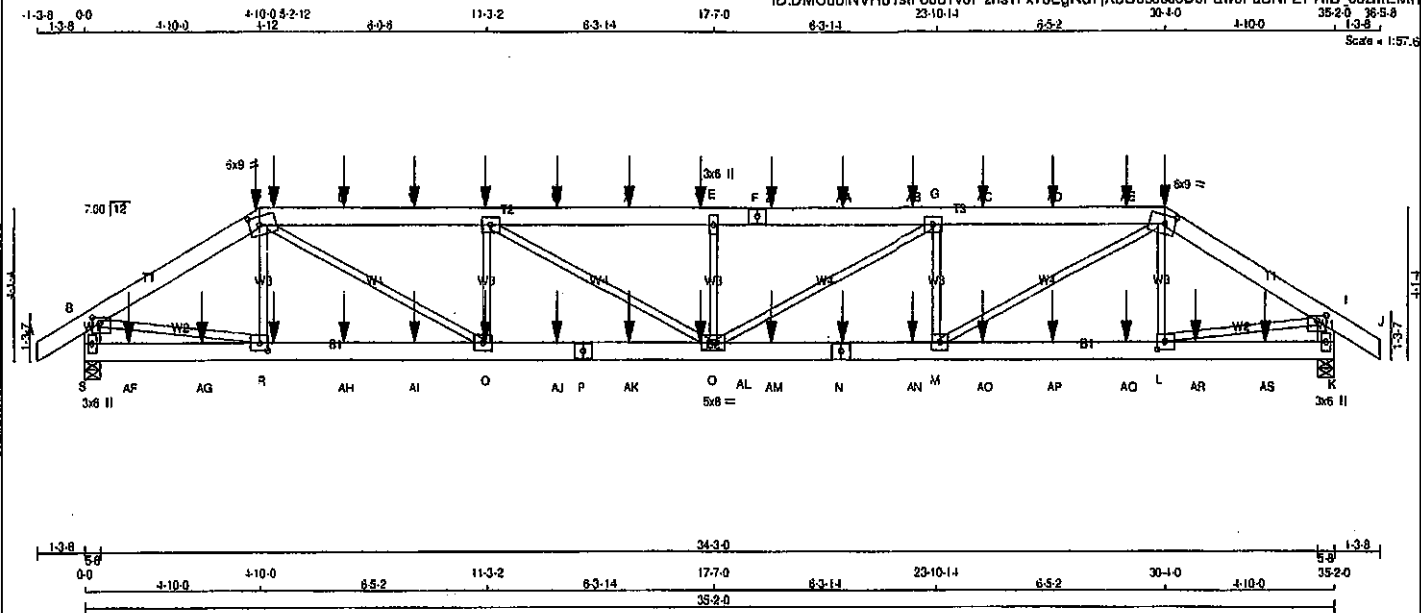
Structural component only
DWG# T-2007615

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T20	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:57.6



TOTAL WEIGHT = 2 X 180 = 360 lb

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD/(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	2	12
C - F	2	12
F - H	2	12
H - J	2	12
S - B	2	12
K - I	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P	2	12
P - N	2	12
N - K	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	RECORD
JT	VERT	HORZ	DOWN	HORZ
S	3423	0	0	5-8
K	3365	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	2418	1800	0	0	0	0
S	2418	1800	0	0	0	0	0
K	2378	1573	0	0	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FORCE	FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	WEBS	MAX. FORCE	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO						FR-TO			
A-B	0	33	-91.8	-91.8	0.04 (1)	10.00	R-C	-431	9
B-C	-4881	0	-91.8	-91.8	0.13 (1)	5.23	C-Q	0	3534
C-T	-7102	0	-91.8	-91.8	0.31 (1)	4.28	Q-D	-1555	0
T-U	-7102	0	-91.8	-91.8	0.31 (1)	4.28	D-O	0	1048
U-V	-7102	0	-91.8	-91.8	0.31 (1)	4.28	O-E	-884	0
V-D	-7102	0	-91.8	-91.8	0.31 (1)	4.28	E-G	0	1085
D-W	-8010	0	-91.8	-91.8	0.32 (1)	4.05	M-H	-1573	0
W-X	-8010	0	-91.8	-91.8	0.32 (1)	4.05	H-I	0	3572
X-Y	-8010	0	-91.8	-91.8	0.32 (1)	4.05	L-H	-421	10
Y-E	-8010	0	-91.8	-91.8	0.32 (1)	4.05	B-R	0	4088
E-F	-8010	0	-91.8	-91.8	0.33 (1)	4.03	L-I	0	-4022
F-Z	-8010	0	-91.8	-91.8	0.33 (1)	4.03			
Z-AA	-8010	0	-91.8	-91.8	0.33 (1)	4.03			
AA-AB	-8010	0	-91.8	-91.8	0.33 (1)	4.03			
AB-G	-8010	0	-91.8	-91.8	0.33 (1)	4.03			
G-AC	-7070	0	-91.8	-91.8	0.30 (1)	4.27			
AC-AD	-7070	0	-91.8	-91.8	0.30 (1)	4.27			
AD-AE	-7070	0	-91.8	-91.8	0.30 (1)	4.27			
AE-H	-7070	0	-91.8	-91.8	0.30 (1)	4.27			
H-I	-4806	0	-91.8	-91.8	0.13 (1)	5.28			
I-J	0	33	-91.8	-91.8	0.04 (1)	10.00			
S-B	-3367	0	0.0	0.0	0.12 (1)	7.58			
K-I	-3318	0	0.0	0.0	0.12 (1)	7.63			

SAF	0	0	-18.5	-18.5	0.06 (4)	10.00
AF-AG	0	0	-18.5	-18.5	0.06 (4)	10.00
AG-R	0	0	-18.5	-18.5	0.06 (4)	10.00
R-AH	0	4024	-18.5	-18.5	0.31 (1)	10.00
AH-AI	0	4024	-18.5	-18.5	0.31 (1)	10.00
AI-Q	0	4024	-18.5	-18.5	0.31 (1)	10.00
Q-AJ	0	7102	-18.5	-18.5	0.52 (1)	10.00
AJ-P	0	7102	-18.5	-18.5	0.52 (1)	10.00
P-AK	0	7102	-18.5	-18.5	0.52 (1)	10.00
AK-AL	0	7102	-18.5	-18.5	0.52 (1)	10.00
AL-O	0	7102	-18.5	-18.5	0.52 (1)	10.00
O-AM	0	7070	-18.5	-18.5	0.52 (1)	10.00
AM-N	0	7070	-18.5	-18.5	0.52 (1)	10.00
N-AN	0	7070	-18.5	-18.5	0.52 (1)	10.00
AN-M	0	7070	-18.5	-18.5	0.52 (1)	10.00
MAO	0	3960	-18.5	-18.5	0.30 (1)	10.00
AO-AP	0	3960	-18.5	-18.5	0.30 (1)	10.00
AP-AO	0	3960	-18.5	-18.5	0.30 (1)	10.00
AO-L	0	3960	-18.5	-18.5	0.30 (1)	10.00

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BOBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (11.17")
CALCULATED VERT. DEFL.(LL) = L/999 (10.20")
ALLOWABLE DEFL.(TL) = L/360 (11.17")
CALCULATED VERT. DEFL.(TL) = L/999 (10.37")

CSI: TC=0.33/1.00 (E-G:1), BC=0.52/1.00 (Q-Q:1),
WB=0.51/1.00 (B-R:1), SS=0.18/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

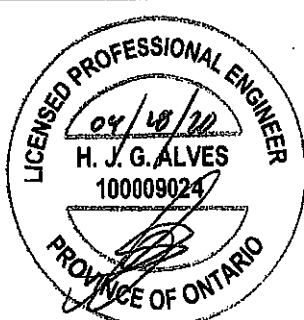
PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354 1687 788 1987 1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (Q) INPUT = 0.90
JSI METAL= 0.68 (P) INPUT = 1.00

CONTINUED ON PAGE 2



Structural component only
DWG# T-2007632 1/2

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ID:PMCubINVR6TsiEge31v6l zns1l-x73EqNd7XbU6ssesc0DbPaw0PaBNFZ7YIIB c8zMEMM

CHORDS					WEBS									
MEMB.	MAX.	FACTORED			VERT.	LOAD	LC1	MAX.		MEMB.	MAX.	FACTORED		
		FORCE										FORCE		
		(LBS)			(PLF)			CS(I/LC)		UNBRAC			MAX	
FR-TO					FROM					LENGTH	FR-TO			CS(I/LC)
L-AR	0	0			-18.5	-18.5	0.06	(4)		10.00				
AR-AS	0	0			-18.5	-18.5	0.06	(4)		10.00				
AS-K	0	0			-18.5	-18.5	0.06	(4)		10.00				

FACTORED CONCENTRATED LOADS (LBS)					FACE	DIR.	TYPE	HEEL	CONN.
JT	LOC.	LC1	MAX-	MAX+					
C	4-0-0	-80	-87	---	FRONT	VERT	DEAD	---	C1
C	4-0-0	-311	-311	---	FRONT	VERT	SNOW	---	C1
D	11-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	30-4-0	-80	-87	---	FRONT	VERT	DEAD	---	C1
H	30-4-0	-311	-311	---	FRONT	VERT	SNOW	---	C1
N	21-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
O	11-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
Q	5-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
T	5-2-12	-138	-138	---	FRONT	VERT	TOTAL	---	C1
U	7-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	9-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	13-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	16-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	17-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	19-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	21-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	23-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	25-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AD	27-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AE	29-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AF	1-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AG	3-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AH	7-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AI	9-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AJ	13-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AK	15-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AL	17-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AM	23-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AN	25-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AO	27-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AP	29-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AQ	29-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AR	31-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AS	33-2-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1

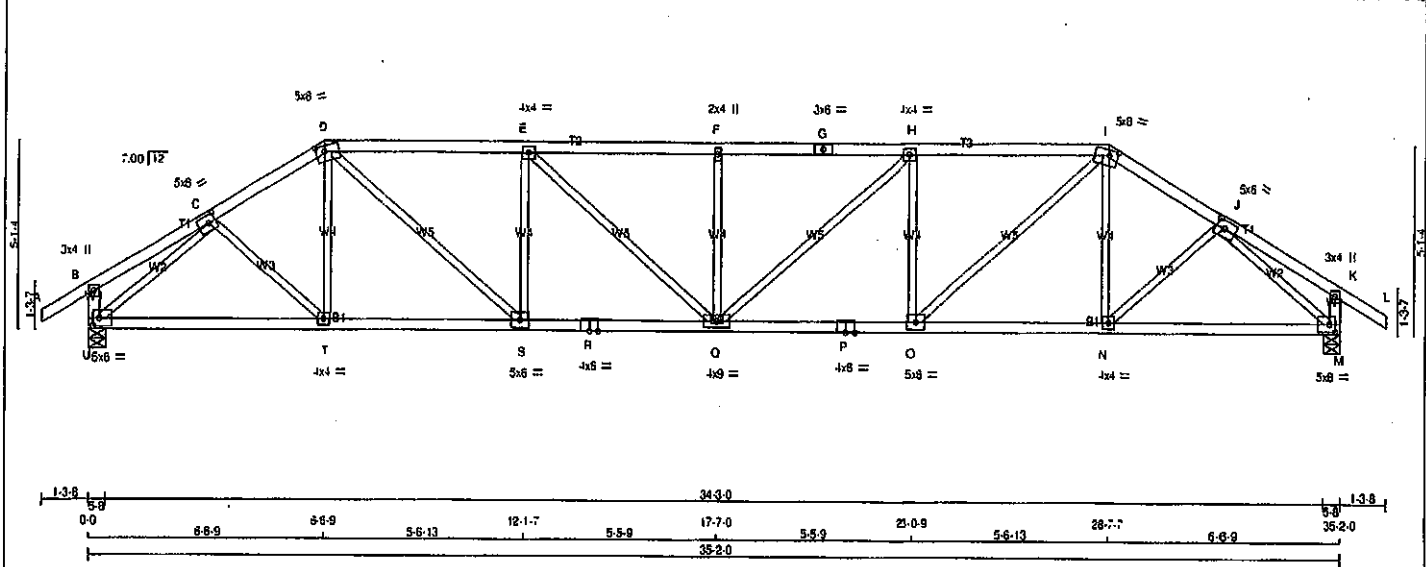
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007632 *YJ*

JOB NAME 408223	TRUSS NAME T21	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 M&T Industries, Inc. Tue Apr 28 10:04:03 2020 Page 1	
ID:DMCubINVR6T8F0e31v6I zns11-PKd0t0eUg1k0D3AWq0T6J Wk xSi yxX9bzMEMg				35-2-0 36-5-8	
1-3-8 0-0 3-4-3 3-4-9 3-2-1 6-6-9 5-6-13 12-1-7 5-5-9 17-7-0 5-5-9 23-0-9 5-6-13 28-7-7 32-1 31-9-7 3-3-9 1-3-8				Scale = 1:57.6	



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. A - D 2x4 DRY No.2 SPF D - G 2x4 DRY No.2 SPF G - I 2x4 DRY No.2 SPF I - L 2x4 DRY No.2 SPF U - B 2x4 DRY No.2 SPF M - K 2x4 DRY No.2 SPF U - R 2x4 DRY No.2 SPF R - P 2x4 DRY No.2 SPF P - M 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REGRD JT VERT HORZ DOWN HORZ UPLIFT W-SX IN-SX U 2084 0 2084 0 0 5-8 5-8 M 2084 0 2084 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX. MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL U 1457 970 0 0 0 0 0 488 0 0 0 M 1457 970 0 0 0 0 0 488 0 0 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, M BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.12 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE (LBS) VERT. LOAD LC1 MAX. UNBRACED LENGTH FR-TO FROM TO CSI (LC) MEMB. MAX. FACTORED FORCE (LBS) MAX. UNBRACED LENGTH FR-TO FROM TO CSI (LC) A-B 0 32 -91.8 -91.8 0.12 (1) 10.00 C-T 0 213 0.05 (1) B-C 0 13 -91.8 -91.8 0.12 (1) 10.00 D-D 8 69 0.02 (4) C-D -2527 0 -91.8 -91.8 0.20 (1) 4.18 D-S 0 1447 0.33 (1) D-E -3264 0 -91.8 -91.8 0.66 (1) 3.30 E-E -853 0 0.33 (1) E-F -3585 0 -91.8 -91.8 0.70 (1) 3.12 E-Q 0 428 0.10 (1) F-G -3585 0 -91.8 -91.8 0.70 (1) 3.12 Q-F -462 0 0.18 (1) G-H -3585 0 -91.8 -91.8 0.70 (1) 3.12 Q-H 0 428 0.10 (1) H-I -3264 0 -91.8 -91.8 0.66 (1) 3.30 Q-H -853 0 0.33 (1) I-J -2527 0 -91.8 -91.8 0.20 (1) 4.18 O-I 0 1447 0.33 (1) J-K 0 13 -91.8 -91.8 0.12 (1) 10.00 N-I 8 69 0.02 (4) K-L 0 32 -91.8 -91.8 0.12 (1) 10.00 N-J 0 213 0.05 (1) U-B -249 0 0.0 0.0 0.03 (1) 7.81 U-C -2671 0 0.82 (1) M-K -249 0 0.0 0.0 0.03 (1) 7.81 J-M -2671 0 0.82 (1) U-T 0 2005 -18.5 -18.5 0.42 (1) 10.00 T-S 0 2187 -18.5 -18.5 0.44 (1) 10.00 S-R 0 3264 -18.5 -18.5 0.58 (1) 10.00 R-Q 0 3264 -18.5 -18.5 0.58 (1) 10.00 Q-P 0 3264 -18.5 -18.5 0.58 (1) 10.00 P-O 0 3264 -18.5 -18.5 0.58 (1) 10.00 O-N 0 2187 -18.5 -18.5 0.44 (1) 10.00 N-M 0 2005 -18.5 -18.5 0.42 (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 = 21.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF BCBC 2018, OBC 2012, ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL. (LL) = L/360 (1.17") CALCULATED VERT. DEFL. (LL) = L/989 (0.21") ALLOWABLE DEFL. (TL) = L/360 (1.17") CALCULATED VERT. DEFL. (TL) = L/999 (0.39") CSI TO=0.70 (1.00) (E-F:1), BC=0.58 (1.00) (Q-S:1), WB=0.82 (1.00) (J-K:1), SS=0.24 (1.00) (D-E:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 788 1987 1856 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (M) (INPUT = 0.90) JSI METAL= 0.74 (R) (INPUT = 1.00)			
---	--	--	--	--	--	--	--	--	--	--	--



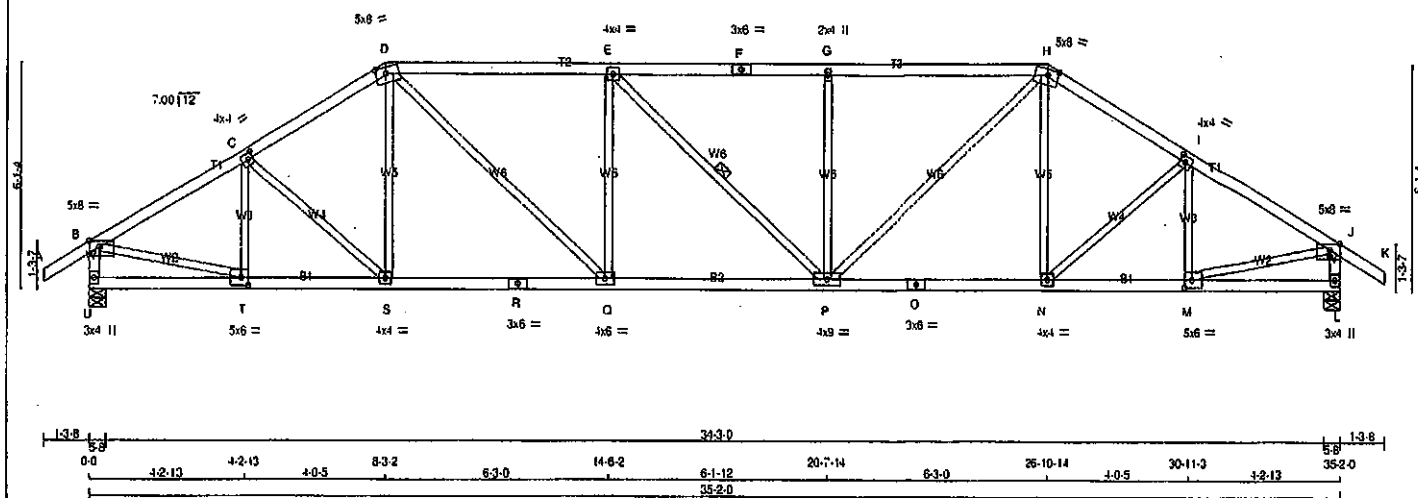
Structural component only
DWG# T-2007633

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	T22	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCub/NVR6TsFoe31v6I zns11-WB743eNF8CMAoFjDG3U?0GFOHjTirCcg4htzMEMI
20-7-14 26-10-14 30-11-3 35-2-0 38-5-8
1-3-8 4-2-13 4-2-13 4-0-5 3-3-2 6-3-0 14-6-2 6-1-12 4-3-0 4-0-5 30-11-3 4-2-13 1-3-8
Scale = 1:57.6



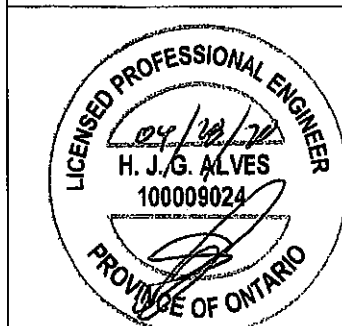
LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - K	2x4	DRY	No.2	SPF	
U - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
U - R	2x4	DRY	No.2	SPF	
R - O	2x4	DRY	No.2	SPF	
O - L	2x4	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
BT TMWV-p	MT20	5.0	8.0	Edge 3.50
CT TMWV-l	MT20	4.0	4.0	2.00 1.75
DT TTWW-m	MT20	5.0	8.0	2.00 3.50
ET TMWV-l	MT20	4.0	4.0	
FT TS-l	MT20	3.0	6.0	
GT TMWV-m	MT20	2.0	4.0	
HT TTWW-m	MT20	5.0	8.0	2.00 3.50
IT TMWV-l	MT20	4.0	4.0	2.00 1.75
JT TMWV-p	MT20	5.0	8.0	Edge 3.50
LT BMWV-l-p	MT20	3.0	4.0	
M BMWV-l	MT20	5.0	8.0	2.50 2.50
N BMWV-l	MT20	4.0	4.0	
O BS-l	MT20	3.0	6.0	
P BMWV-l	MT20	4.0	9.0	
Q BMWV-l	MT20	4.0	6.0	
R BS-l	MT20	3.0	6.0	
S BMWV-l	MT20	4.0	4.0	
T BMWV-l	MT20	5.0	8.0	2.50 2.50
U BMWV-l-p	MT20	3.0	4.0	

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



Structural component only
DWG# T-2007634

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

BUILDING DESIGNER

BEARINGS

	FACTORED		MAXIMUM FACTORED			INPUT	REQD
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
U	2064	0	2064	0	0	5-8	5-8
L	2064	0	2064	0	0	5-8	5-8

UNFACTORED REACTIONS

	1ST LOOSE	MAX. MIN. COMPONENT REACTIONS							
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
JT	1457	970	0	0	0	0	488	0	0
U	1457	970	0	0	0	0	488	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.37 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-P.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FORCE	VERT. LOAD	MEMB.	MAX. FACTORED	FORCE	VERT. LOAD
(LBS)	(LBS)	(PLF)	CS1(LC)	(LBS)	(LBS)	(LBS)	CS1(LC)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 32	-91.8 -91.8	0.12 (1)	10.00	T-C	-426 0	0.10 (1)
B-C	-2468 0	-91.8 -91.8	0.35 (1)	4.07	C-S	-39 0	0.02 (1)
C-D	-2478 0	-91.8 -91.8	0.34 (1)	4.08	S-D	0 131	0.04 (4)
D-E	-2910 0	-91.8 -91.8	0.75 (1)	3.37	D-Q	0 1078	0.24 (1)
E-F	-2909 0	-91.8 -91.8	0.74 (1)	3.38	Q-E	-817 0	0.36 (1)
F-G	-2909 0	-91.8 -91.8	0.74 (1)	3.38	E-P	-2 0	0.00 (1)
G-H	-2909 0	-91.8 -91.8	0.75 (1)	3.38	P-G	-817 0	0.36 (1)
H-I	-2478 0	-91.8 -91.8	0.34 (1)	4.06	I-H	0 1073	0.24 (1)
I-J	-2468 0	-91.8 -91.8	0.35 (1)	4.07	N-H	0 132	0.04 (4)
J-K	0 32	-91.8 -91.8	0.12 (1)	10.00	N-I	-39 0	0.02 (1)
U-B	-2025 0	0.0 0.0	0.21 (1)	5.94	M-I	-426 0	0.10 (1)
L-J	-2025 0	0.0 0.0	0.21 (1)	5.94	B-T	0 2205	0.50 (1)
					M-J	0 2205	0.50 (1)
U-T	0 0	-18.5 -18.5	0.07 (4)	10.00			
T-S	0 2149	-18.5 -18.5	0.41 (1)	10.00			
S-R	0 2122	-18.5 -18.5	0.41 (1)	10.00			
R-Q	0 2122	-18.5 -18.5	0.41 (1)	10.00			
Q-P	0 2910	-18.5 -18.5	0.54 (1)	10.00			
P-O	0 2122	-18.5 -18.5	0.41 (1)	10.00			
O-N	0 2122	-18.5 -18.5	0.41 (1)	10.00			
N-M	0 2149	-18.5 -18.5	0.41 (1)	10.00			
M-L	0 0	-18.5 -18.5	0.07 (4)	10.00			

TOTAL WEIGHT = 148 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:

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

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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CS1: TC=0.75:1.00 (D-E:1), BC=0.54:1.00 (P-Q:1), WB=0.50:1.00 (B-T:1), SS=0.27:1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

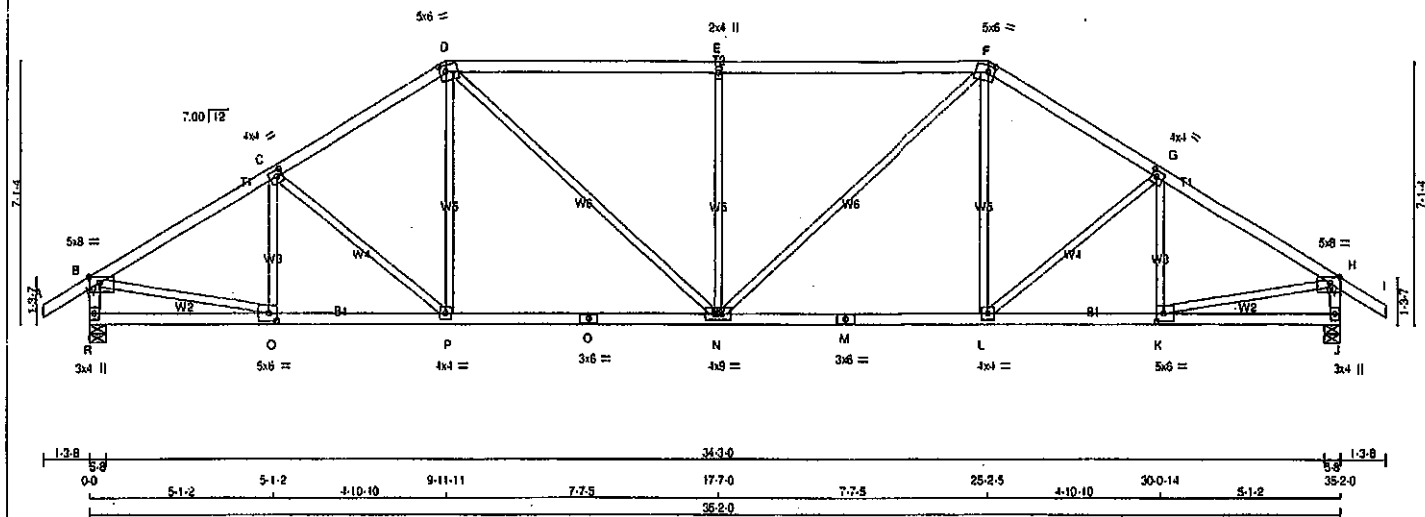
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (T) (INPUT = 0.90)
JSI METAL = 0.70 (O) (INPUT = 1.00)



LUMBER

N. L. G. A. RULES

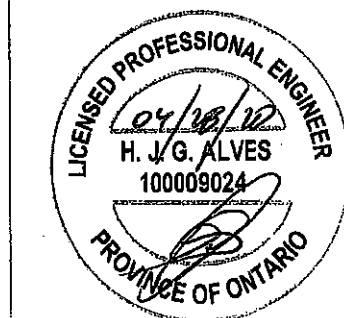
CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - B	2x4	DRY	No.2	SPF
B - H	2x4	DRY	No.2	SPF
H - O	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	3.50
C	TMVW-l	MT20	4.0	4.0	2.00	1.75
D	ITVW-m	MT20	5.0	8.0	2.00	2.00
E	TMVW-w	MT20	2.0	4.0		
F	ITVW-m	MT20	5.0	8.0	2.00	2.00
G	BMVW-l	MT20	4.0	4.0	2.00	1.75
H	TMVW-p	MT20	5.0	8.0	Edge	3.50
J	BMV-l+p	MT20	3.0	4.0		
K	BMVW-l	MT20	5.0	6.0	2.50	2.50
L	BMVW-l	MT20	4.0	4.0		
M	BS-l	MT20	3.0	6.0		
N	BMVW-w-l	MT20	4.0	9.0		
O	BS-l	MT20	3.0	6.0		
P	BMVW-l	MT20	4.0	4.0		
Q	BMVW-l	MT20	5.0	6.0	2.50	2.50
R	BMV-l+p	MT20	3.0	4.0		

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



Structural component only
DWG# T-2007635

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	2064	0	2064	0	0	5-8	5-8
J	2064	0	2064	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
R	1457	970.0	0.0	0.0	0.0	488.0	0.0
J	1457	970.0	0.0	0.0	0.0	488.0	0.0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSF (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSF (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 32	-91.8 -91.8 0.12 (1)	10.00	C-C	-335 0	0.09 (1)	
B-C	-2537 0	-91.8 -91.8 0.39 (1)	4.00	C-P	-216 0	0.16 (1)	
C-D	-2398 0	-91.8 -91.8 0.37 (1)	4.11	P-D	0 258	0.08 (4)	
D-E	-2609 0	-91.8 -91.8 0.88 (1)	3.16	D-N	0 752	0.17 (1)	
E-F	-2609 0	-91.8 -91.8 0.88 (1)	3.16	N-E	-880 0	0.75 (1)	
F-G	-2398 0	-91.8 -91.8 0.37 (1)	4.11	N-F	0 752	0.17 (1)	
G-H	-2537 0	-91.8 -91.8 0.39 (1)	4.00	L-F	0 258	0.08 (4)	
H-I	0 32	-91.8 -91.8 0.12 (1)	10.00	L-G	-216 0	0.16 (1)	
I-B	-2020 0	0.0 0.0 0.21 (1)	5.94	K-G	-335 0	0.09 (1)	
J-H	-2020 0	0.0 0.0 0.21 (1)	5.94	B-Q	0 2253	0.51 (1)	
				K-H	0 2253	0.51 (1)	
R-Q	0 0	-18.5 -18.5 0.10 (4)	10.00				
Q-P	0 2213	-18.5 -18.5 0.45 (1)	10.00				
P-O	0 2048	-18.5 -18.5 0.44 (1)	10.00				
O-N	0 2048	-18.5 -18.5 0.44 (1)	10.00				
N-M	0 2048	-18.5 -18.5 0.44 (1)	10.00				
M-L	0 2048	-18.5 -18.5 0.44 (1)	10.00				
L-K	0 2213	-18.5 -18.5 0.45 (1)	10.00				
K-J	0 0	-18.5 -18.5 0.10 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 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 086-09, CSA 086-14
- 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSF: TC=0.88(1.00) (E-F:1), BC=0.45(1.00) (K-L:1), WS=0.75(1.00) (E-N:1), SS=0.34(1.00) (E-F:1)

COL 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 (PSI)	SECTION (PLI)
MT20	618	354
1687	788	1987
1656		

PLATE PLACEMENT TOL. = 0.250 inches

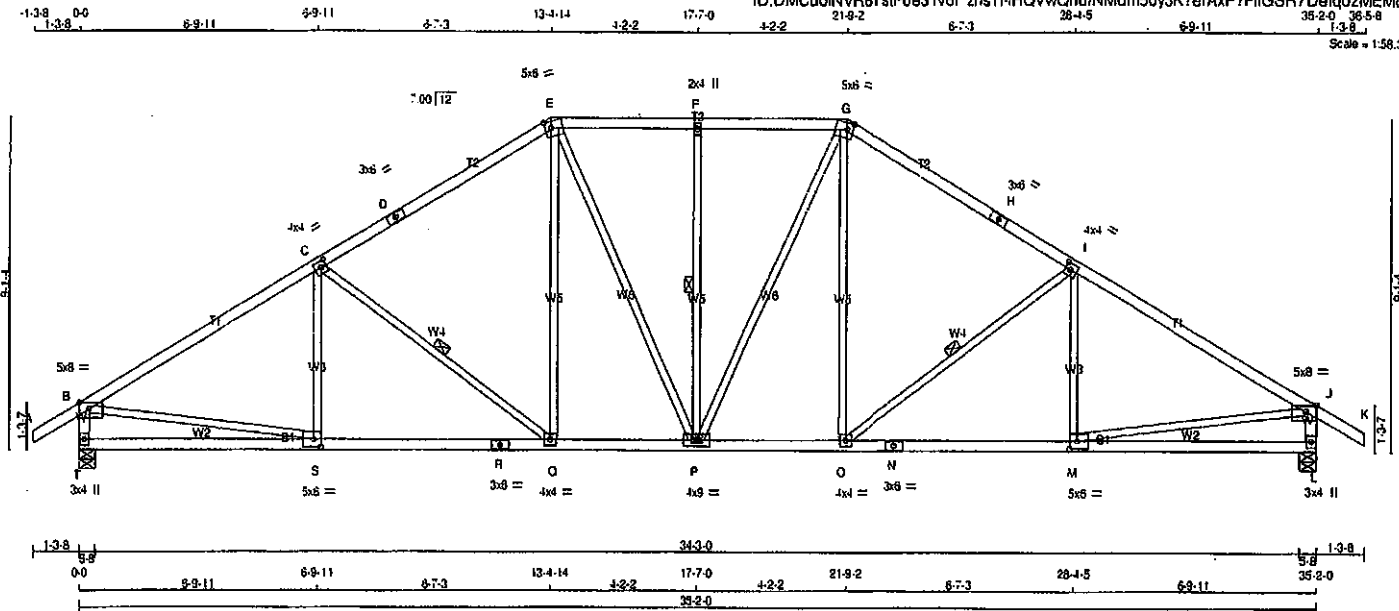
PLATE ROTATION TOL. = 5.0 Deg.

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

JOB NAME 408223	TRUSS NAME T25	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TslFo631v6l zns11-HQVwQhuNMdm50y3K7erAxP7FIIGSR7DelqozMEMb



TOTAL WEIGHT = 4 X 158 = 632 lb (M/F)

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

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMWV-p	MT20	5.0	8.0	Edge 3.50
C TMWV-l	MT20	4.0	4.0	2.00 1.75
D TS-l	MT20	3.0	6.0	
E TTWV-m	MT20	5.0	6.0	2.25 2.00
F TMWV-w	MT20	2.0	4.0	
G TTWV-m	MT20	5.0	6.0	2.25 2.00
H TS-l	MT20	3.0	6.0	
I TMWV-l	MT20	4.0	4.0	2.00 1.75
J TMWV-p	MT20	5.0	8.0	Edge 3.50
L BMV-l+p	MT20	3.0	4.0	
M BMWV-l	MT20	5.0	6.0	2.50 2.50
N BS-l	MT20	3.0	6.0	
O BMWV-l	MT20	4.0	4.0	
P BMWVW-l	MT20	4.0	9.0	
Q BMWV-l	MT20	4.0	4.0	
R BS-l	MT20	3.0	6.0	
S BMWV-l	MT20	5.0	6.0	2.50 2.50
T BMV-l+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
T	2064	0	2064	0	5-8
L	2064	0	2064	0	5-8

UNFACTORED REACTIONS

1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
T	1457	970	0	0	0	488	0
L	1457	970	0	0	0	488	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.54 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1:2 LENGTH OF 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

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 32	-91.8	-91.8 0.12 (1)	10.00	S-C	-185 51	0.08 (1)
B-C	-2590 0	-91.8	-91.8 0.74 (1)	3.54	C-Q	-548 0	0.26 (1)
C-D	-2156 0	-91.8	-91.8 0.66 (1)	3.91	Q-E	0 431	0.10 (1)
D-E	-2156 0	-91.8	-91.8 0.66 (1)	3.91	E-P	0 288	0.08 (1)
E-F	-1956 0	-91.8	-91.8 0.24 (1)	4.61	P-F	-480 0	0.25 (1)
F-G	-1956 0	-91.8	-91.8 0.24 (1)	4.61	P-G	0 288	0.08 (1)
G-H	-2156 0	-91.8	-91.8 0.66 (1)	3.91	Q-G	0 431	0.10 (1)
H-I	-2156 0	-91.8	-91.8 0.66 (1)	3.91	O-I	-548 0	0.26 (1)
I-J	-2590 0	-91.8	-91.8 0.74 (1)	3.54	M-I	-185 51	0.08 (1)
J-K	0 32	-91.8	-91.8 0.12 (1)	10.00	B-S	0 2292	0.52 (1)
T-B	-2011 0	0.0	0.0 0.20 (1)	5.85	M-J	0 2292	0.52 (1)
L-J	-2011 0	0.0	0.0 0.20 (1)	5.85			

T-S	0 0	-18.5	-18.5 0.20 (4)	10.00
S-R	0 2269	-18.5	-18.5 0.46 (1)	10.00
R-O	0 2269	-18.5	-18.5 0.46 (1)	10.00
O-P	0 1833	-18.5	-18.5 0.38 (1)	10.00
P-O	0 1833	-18.5	-18.5 0.38 (1)	10.00
O-N	0 2269	-18.5	-18.5 0.46 (1)	10.00
N-M	0 2269	-18.5	-18.5 0.46 (1)	10.00
M-L	0 0	-18.5	-18.5 0.20 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.74/1.00 (I-J:1), BC=0.46/1.00 (M-Q:1), WB=0.52/1.00 (J-M:1), SS=0.26/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

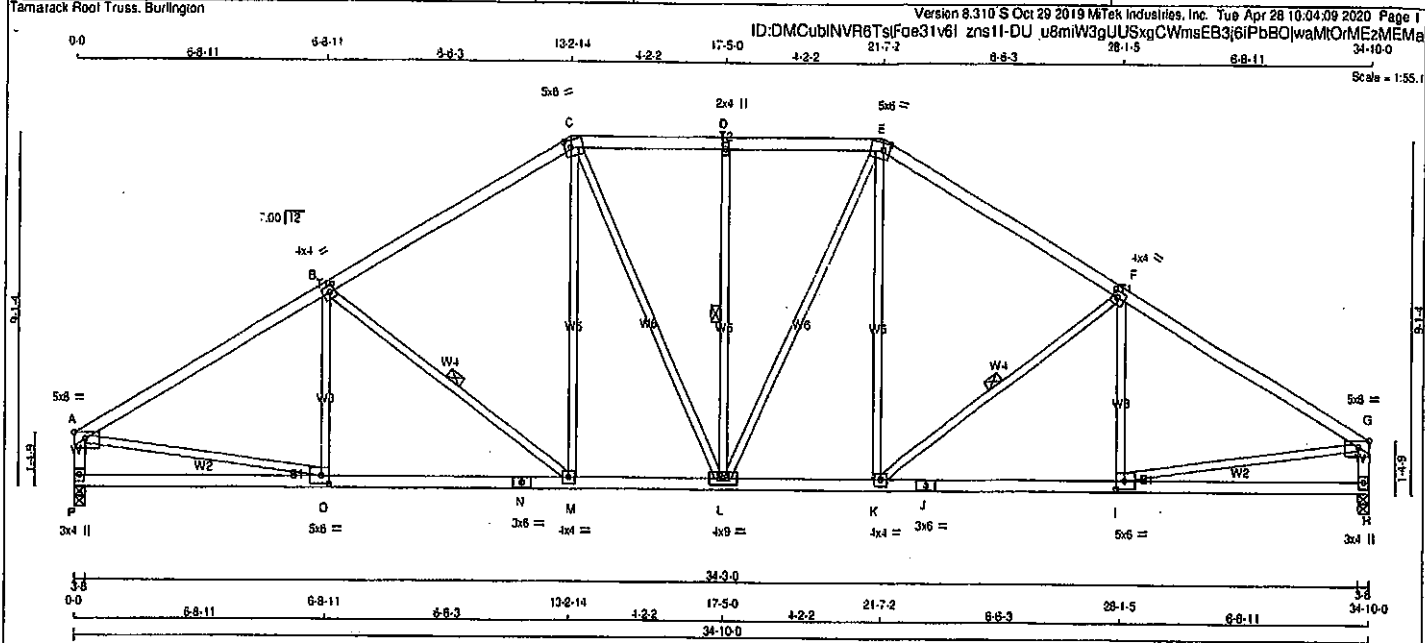
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (S) (INPUT = 0.90)
JSI METAL = 0.89 (N) (INPUT = 1.00)



Structural component only
DWG# T-2007637

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T25A	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
A - B	TMWW-p	MT20	5.0	8.0 2.00 Edge
B - C	TMWW-t	MT20	4.0	4.0 2.00 1.75
C - D	TTWW-m	MT20	5.0	6.0 2.25 2.00
D - E	TMWW-w	MT20	2.0	4.0
E - F	TTWW-m	MT20	5.0	6.0 2.25 2.00
F - G	TMWW-t	MT20	4.0	4.0 2.00 1.75
G - H	TMWW-p	MT20	5.0	8.0 Edge 3.50
H - I	BMV1-p	MT20	3.0	4.0
I - J	BMWW-t	MT20	5.0	6.0 2.50 2.50
J - K	BS-t	MT20	3.0	6.0
K - L	BMWW-t	MT20	4.0	4.0
L - M	BMWW-w	MT20	4.0	9.0
M - N	BMWW-t	MT20	4.0	4.0
N - O	BS-t	MT20	3.0	6.0
O - P	BMWW-t	MT20	5.0	6.0 2.50 2.50
P - Q	BMV1-p	MT20	3.0	4.0

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

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

BEARINGS							
FACTORED				MAXIMUM FACTORED			
GROSS REACTION				GROSS REACTION			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REGR
P	1920	0	1920	0	0	3-8	3-8
H	1920	0	1920	0	0	3-8	3-8

UNFACTORED REACTIONS							
1ST LOASE				MAX. MIN. COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1358	891	0	0	0	487	0
H	1358	891	0	0	0	487	0

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

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF B-M, D-L, F-K.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LBS)
FR-TO		FROM TO			FR-TO		
A-B	-2510 0	-91.8	-91.8 0.71 (1)	3.64	O-B	-212 40	0.09 (1)
B-C	-2113 0	-91.8	-91.8 0.63 (1)	3.99	B-M	-510 0	0.24 (1)
C-D	-1919 0	-91.8	-91.8 0.24 (1)	4.64	M-C	0 412	0.09 (1)
D-E	-1919 0	-91.8	-91.8 0.24 (1)	4.64	C-L	0 287	0.06 (1)
E-F	-2113 0	-91.8	-91.8 0.63 (1)	3.99	L-D	-461 0	0.25 (1)
F-G	-2510 0	-91.8	-91.8 0.71 (1)	3.64	L-E	0 287	0.06 (1)
G-A	-1858 0	0.0	0.0 0.19 (1)	6.13	K-E	0 412	0.09 (1)
H-G	-1858 0	0.0	0.0 0.19 (1)	6.13	K-F	-510 0	0.24 (1)
					I-F	-212 40	0.09 (1)
P-O	0 0	-18.5	-18.5 0.20 (4)	10.00	A-O	0 2227	0.50 (1)
O-N	0 2189	-18.5	-18.5 0.45 (1)	10.00	I-G	0 2227	0.50 (1)
N-M	0 2189	-18.5	-18.5 0.45 (1)	10.00			
M-L	0 1787	-18.5	-18.5 0.35 (1)	10.00			
L-K	0 1787	-18.5	-18.5 0.35 (1)	10.00			
K-J	0 2189	-18.5	-18.5 0.45 (1)	10.00			
J-I	0 2189	-18.5	-18.5 0.45 (1)	10.00			
I-H	0 0	-18.5	-18.5 0.20 (4)	10.00			

TOTAL WEIGHT = 3 X 154 = 462 lb

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH. LL	=	25.6	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	39.0	PSF
SPACING = 24.0 IN. C/C			

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.16")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.16")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")
CSI: TC=0.71 (A-B:1), BC=0.45/1.00 (M-O:1), WB=0.50/1.00 (A-C:1), SS=0.26/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE GRIP(DRY) SHEAR	SECTION		
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618	354	1857 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (N) INPUT = 0.90)
JSI METAL= 0.66 (N) INPUT = 1.00)

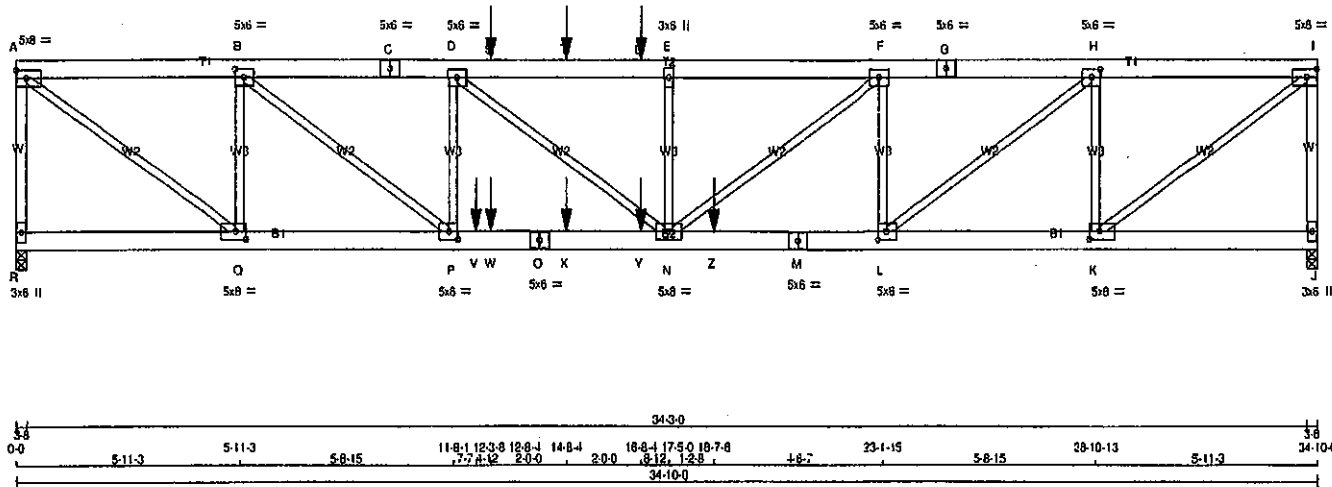
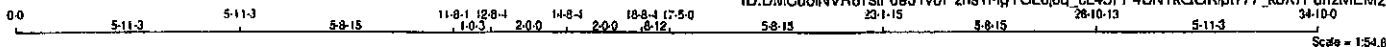


Structural component only
DWG# T-2007638

JOB NAME 408223	TRUSS NAME T28	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC					

Tamarack Roof Truss, Burlington

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ID:DMCubiNVR6TslFoe31v6l zns1l-igYGL6Bq cl45FP4UNTkGGKpt777_kbX7PuhzMEMZ



TOTAL WEIGHT = 2 X 183 = 366 lb (M)

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
R - A	2x4	DRY	No.2	SPF		
A - C	2x6	DRY	No.2	SPF		
C - G	2x6	DRY	No.2	SPF		
G - I	2x6	DRY	No.2	SPF		
J - I	2x4	DRY	No.2	SPF		
R - O	2x6	DRY	No.2	SPF		
O - M	2x6	DRY	No.2	SPF		
M - J	2x6	DRY	No.2	SPF		

ALL WEBS 2x3 DRY, SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
R - A	12	TOP
I - J	12	TOP
A - C	12	TOP
C - G	12	SIDE (0.0)
G - I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
R - O	12	SIDE (0.0)
O - M	12	SIDE (0.0)
M - J	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
		GROSS REACTION		DOWN		BRG		IN-SX	
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		
R	3373	0	3373	0	0	3-8	3-8		
J	3103	0	3103	0	0	3-8	3-8		

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT REACTIONS						
R	2380	1591	0	0	0	0	0	789	0
J	2190	1459	0	0	0	0	0	731	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 = 4.03 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX. MIN.		UNBRAC		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	PLF	CS1 (LC)	MAX.	MIN.	LENGTH	MEMB.	FORCE (LBS)	MAX.	CS1 (LC)
FR-TO								FR-TO			
R-A	-3316	0	0.0	0.0	0.58 (1)	8.39		K-I	0	4719	0.58 (1)
A-B	-4149	0	-91.8	-91.8	0.14 (1)	5.47		A-Q	0	5171	0.84 (1)
B-C	-7288	0	-91.8	-91.8	0.20 (1)	4.33		K-H	-2757	0	0.44 (1)
C-D	-7288	0	-91.8	-91.8	0.20 (1)	4.33		Q-B	-2997	0	0.48 (1)
D-S	-8278	0	-91.8	-91.8	0.28 (1)	4.03		L-H	0	3530	0.44 (1)
S-T	-8278	0	-91.8	-91.8	0.28 (1)	4.03		B-P	0	3958	0.48 (1)
T-U	-8278	0	-91.8	-91.8	0.28 (1)	4.03		L-F	-1791	0	0.28 (1)
U-E	-8278	0	-91.8	-91.8	0.28 (1)	4.03		P-D	-1403	0	0.22 (1)
E-F	-8278	0	-91.8	-91.8	0.21 (1)	4.11		N-F	0	2134	0.28 (1)
F-G	-6586	0	-91.8	-91.8	0.19 (1)	4.52		D-N	0	1249	0.15 (1)
G-H	-6586	0	-91.8	-91.8	0.19 (1)	4.52		N-E	-673	0	0.11 (1)
H-I	-3787	0	-91.8	-91.8	0.13 (1)	5.68					
I-J	-3042	0	0.0	0.0	0.51 (1)	6.82					

R-Q	0	0	-18.5	-18.5	0.04 (4)	10.00
Q-P	0	-4149	-18.5	-18.5	0.30 (1)	10.00
P-V	0	7288	-18.5	-18.5	0.67 (1)	10.00
V-W	0	7288	-18.5	-18.5	0.67 (1)	10.00
W-O	0	7288	-18.5	-18.5	0.67 (1)	10.00
O-X	0	7288	-18.5	-18.5	0.67 (1)	10.00
X-Y	0	7288	-18.5	-18.5	0.67 (1)	10.00
Y-N	0	7288	-18.5	-18.5	0.67 (1)	10.00
N-Z	0	6586	-18.5	-18.5	0.72 (1)	10.00
Z-M	0	6586	-18.5	-18.5	0.72 (1)	10.00
M-L	0	6586	-18.5	-18.5	0.72 (1)	10.00
L-K	0	3787	-18.5	-18.5	0.32 (1)	10.00
K-J	0	0	-18.5	-18.5	0.04 (4)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
S	12-8-4	-86	-86	---	BACK	VERT	TOTAL	---
T	14-8-4	-86	-86	---	BACK	VERT	TOTAL	---
U	16-8-4	-86	-86	---	BACK	VERT	TOTAL	---
V	12-3-8	-1052	-1052	---	BACK	VERT	TOTAL	---
W	12-8-4	-17	-17	---	BACK	VERT	TOTAL	---
X	14-8-4	-17	-17	---	BACK	VERT	TOTAL	---
Y	16-8-4	-17	-17	---	BACK	VERT	TOTAL	---
Z	18-7-8	-1273	-1273	---	BACK	VERT	TOTAL	---

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
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 BCBC 2019, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, 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 (1.16")
CALCULATED VERT. DEFL. (LL) = L/999 (0.21")
ALLOWABLE DEFL. (TL) = L/360 (1.16")
CALCULATED VERT. DEFL. (TL) = L/999 (0.39")

CS1: TC=0.56/1.00 (A/R:1), BC=0.72/1.00 (L/N:1), WB=0.64/1.00 (A/Q:1), SS1=0.37/1.00 (L/N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLB)
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 (I) (INPUT = 0.90)
JSI METAL = 0.73 (M) (INPUT = 1.00)

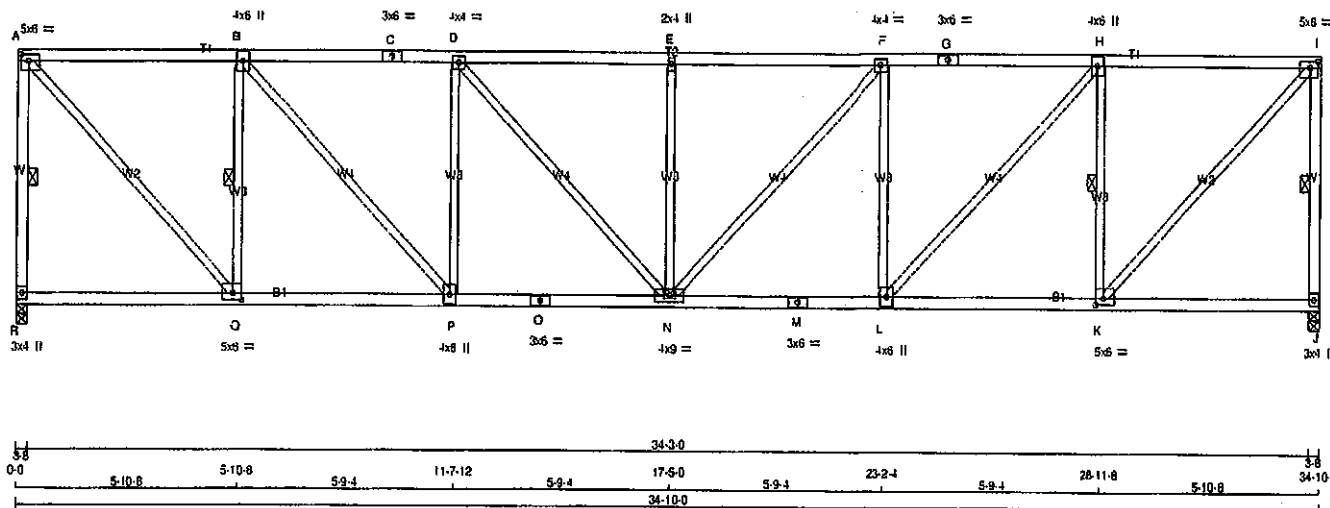
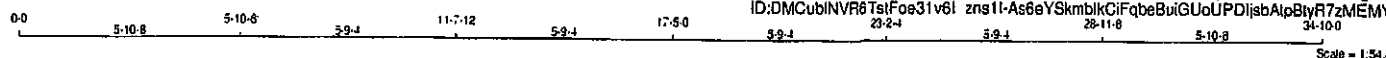


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TOTAL WEIGHT = 2 X 157 = 314 lb

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	BMVW-1	MT20	5.0	6.0	2.00 2.50
B	BMVW-1	MT20	4.0	6.0	
C	TS-1	MT20	3.0	6.0	
D	BMVW-1	MT20	4.0	6.0	
E	BMVW-1	MT20	2.0	4.0	
F	BMVW-1	MT20	4.0	4.0	
G	TS-1	MT20	3.0	6.0	
H	BMVW-1	MT20	4.0	6.0	
I	BMVW-1	MT20	5.0	6.0	2.00 2.50
J	BMV-1-p	MT20	3.0	4.0	
K	BMVW-1	MT20	5.0	6.0	2.00 2.50
L	BMVW-1	MT20	4.0	6.0	
M	BS-1	MT20	3.0	6.0	
N	BMVWVW-1	MT20	4.0	9.0	
O	BS-1	MT20	3.0	6.0	
P	BMVW-1	MT20	4.0	6.0	
Q	BMVW-1	MT20	5.0	6.0	2.00 2.50
R	BMV-1-p	MT20	3.0	4.0	

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

BUILDING DESIGNER

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
R	1920	0	1920	0	0	3-8	3-8
J	1920	0	1920	0	0	3-8	3-8

LINEARIZED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBND	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1358	891 0	0 0	0 0	0 0	-467 0	0 0
J	1358	891 0	0 0	0 0	0 0	-467 0	0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-B, I-J, B-C, H-K

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

LOADING

TOTAL LOAD CASES: 14)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC1)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC1)		
FR-TO		FROM TO			FR-TO				
R-A	-1876 0	0.0	0.0	0.37 (1)	A-Q	0	2281	0.51 (1)	
A-B	1563 0	-91.8	-91.8	0.53 (1)	Q-B	-1540 0	0	0.43 (1)	
B-C	2426 0	-91.8	-91.8	0.83 (1)	B-P	0	1272	0.29 (1)	
C-D	2426 0	-91.8	-91.8	0.83 (1)	P-D	-831 0	0	0.58 (1)	
D-E	-2725 0	-91.8	-91.8	0.56 (1)	D-N	0	440	0.10 (1)	
E-F	-2725 0	-91.8	-91.8	0.56 (1)	N-E	-539 0	0	0.38 (1)	
F-G	2426 0	-91.8	-91.8	0.83 (1)	F-H	0	440	0.10 (1)	
G-H	2426 0	-91.8	-91.8	0.83 (1)	H-F	-831 0	0	0.58 (1)	
H-I	-1583 0	-91.8	-91.8	0.53 (1)	I-H	0	1272	0.29 (1)	
J-I	-1876. 0	0.0	0.0	0.37 (1)	K-H	-1540 0	0	0.43 (1)	
				4.90	K-I	0	2281	0.51 (1)	
R-Q	0 0	-18.5	-18.5	0.15 (4)	10.00				
Q-P	0 1563	-18.5	-18.5	0.33 (1)	10.00				
P-O	0 2426	-18.5	-18.5	0.44 (1)	10.00				
O-N	0 2426	-18.5	-18.5	0.44 (1)	10.00				
N-M	0 2428	-18.5	-18.5	0.44 (1)	10.00				
M-L	0 2426	-18.5	-18.5	0.44 (1)	10.00				
L-K	0 1583	-18.5	-18.5	0.33 (1)	10.00				
K-J	0 0	-18.5	-18.5	0.15 (4)	10.00				

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

LOADING IN FLAT SECTION BASED ON A SLOPE
OF 5.00:12

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

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 (1.16")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.16")
CALCULATED VERT. DEFL.(TL) = L/999 (0.31")

CSI: TC=0.63, 1.00 (F-H:1), BC=0.44, 1.00 (N-P:1),
WB=0.58, 1.00 (F-L:1), SS=0.25, 1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

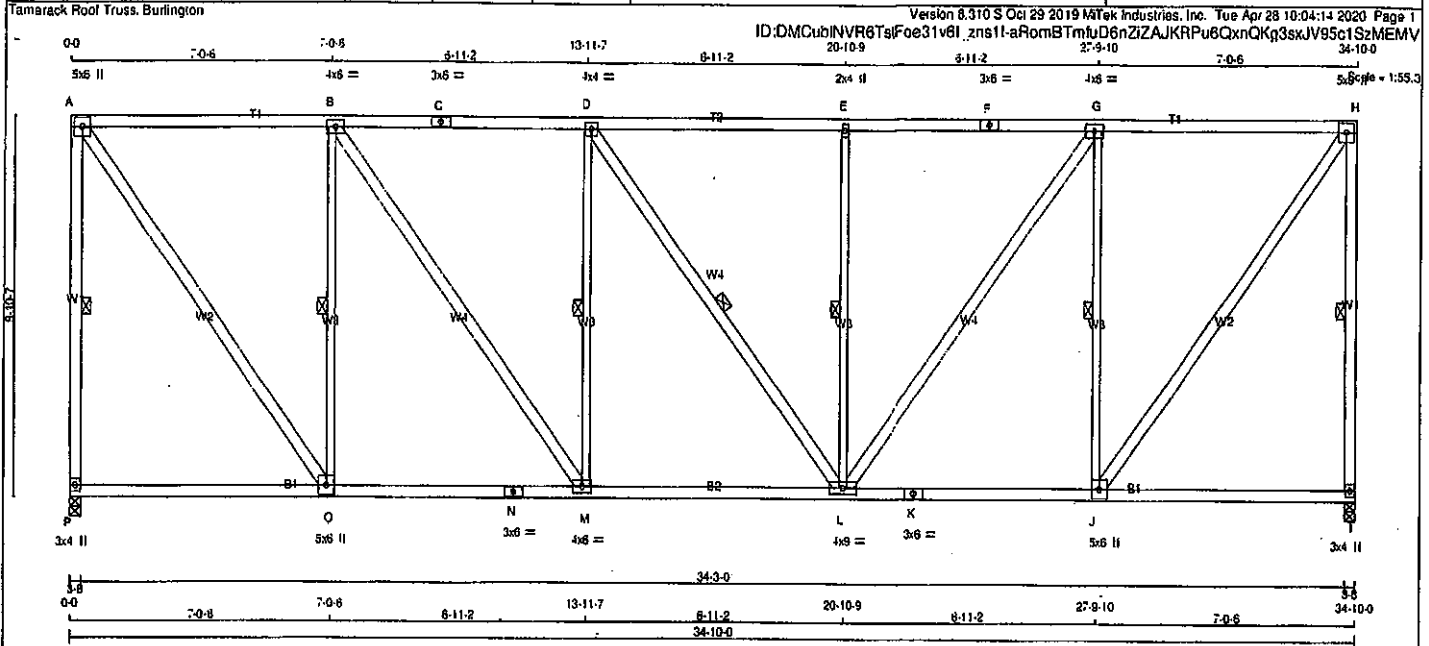
PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.87 (A) (INPUT = 0.90)
JSI METAL= 0.78 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007640

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T31	5	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMWV+p	MT20	5.0	6.0
B	TMWV-1	MT20	4.0	8.0
C	TS-1	MT20	3.0	6.0
D	TMWV-1	MT20	4.0	4.0
E	TMWV-1	MT20	2.0	4.0
F	TS-1	MT20	3.0	6.0
G	TMWV-1	MT20	4.0	8.0
H	TMWV+p	MT20	5.0	6.0
I	BMV1+p	MT20	3.0	4.0
J	BMWV-1	MT20	5.0	6.0
K	BS-1	MT20	3.0	6.0
L	BMWV-1	MT20	4.0	9.0
M	BMWV-1	MT20	4.0	6.0
N	BS-1	MT20	3.0	6.0
O	BMWV-1	MT20	5.0	6.0
P	BMV1+p	MT20	3.0	4.0

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
P	1920	0	1920	0	3-8
I	1920	0	1920	0	3-8

UNFACTORED REACTIONS

1ST LOASE		MAX. MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
P	1358	891	0	0.0	0.0	487
I	1358	891	0	0.0	0.0	487

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.98 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-P, H-I, B-O, D-M, O-L, E-L, G-J.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED	MEMB.	MAX. FACTORED
FORCE	FORCE	FORCE	FORCE
(LBS)	(LBS)	(LBS)	(LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	-1888 0	A-O	0 1999
B-C	-1183 0	O-B	-1468 0
C-D	-1719 0	B-M	0 916
D-E	-1719 0	M-D	-817 0
E-F	-1718 0	D-L	-2 0
F-G	-1718 0	L-E	-818 0
G-H	-1718 0	L-G	0 913
H-I	-1888 0	G-J	-1465 0
		J-H	0 2000

P-O	0 0	-18.5	-18.5	0.22 (4)	10.00
O-N	0 1183	-18.5	-18.5	0.32 (4)	10.00
N-M	0 1183	-18.5	-18.5	0.32 (4)	10.00
M-L	0 1719	-18.5	-18.5	0.36 (1)	10.00
L-K	0 1183	-18.5	-18.5	0.32 (4)	10.00
K-J	0 1183	-18.5	-18.5	0.32 (4)	10.00
J-I	0 0	-18.5	-18.5	0.22 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPC 2011, TPC 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 (1.18")
CALCULATED VERT. DEFL.(LL) = L/998 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.18")
CALCULATED VERT. DEFL.(TL) = L/998 (0.22")

CSI: TC=0.88/1.00 (H=1), BC=0.38/1.00 (L=M),
WB=0.98/1.00 (B=O), SSI=0.30/1.00 (G=H)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (H) (INPUT = 0.90)
JSI METAL= 0.43 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007642



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



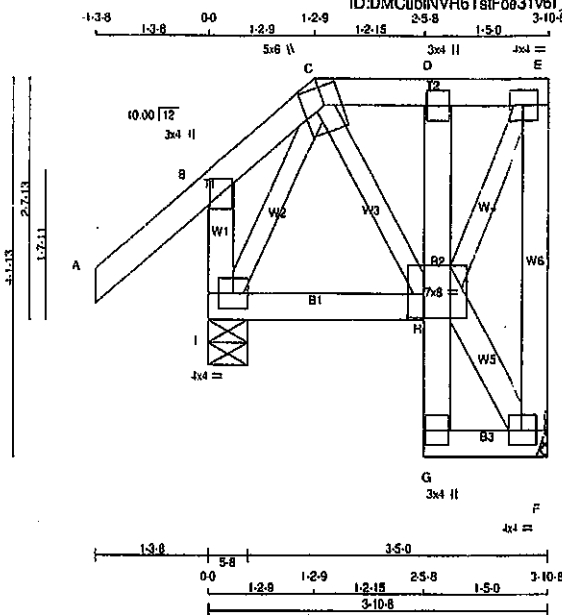
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T35S	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6I_znst1l_0TvpVoXB8UMQAH1_S76W2dVdRQGSemC7KGenzMEMS

Scale = 1/23.4



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TTWW+m	MT20	5.0	5.0	2.50 2.25
D	TMV+p	MT20	3.0	4.0	
E	TMVW-t	MT20	4.0	4.0	
F	BMVW-1	MT20	4.0	4.0	
G	BMV+p	MT20	3.0	4.0	
H	BMVWW-1	MT20	7.0	8.0	3.25 2.25
I	BMVW-1	MT20	4.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
F	191	0	191	0	0
I	363	0	363	0	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	135	88	-13	0	0	0	49	0
I	254	183	0	0	0	0	72	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
A-B	0 41	H-F	-6 0
B-C	-45 0	H-E	0 141
C-D	-69 0	C-H	0 46
D-E	-67 0	I-C	-98 28
F-E	-175 0		
I-B	-255 0		
I-H	-13 45		
G-H	0 13		
H-D	-135 0		
G-F	0 4		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.0/12

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2010, OSC 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

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

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

AUTOSOLVE RIGHT HEEL ONLY

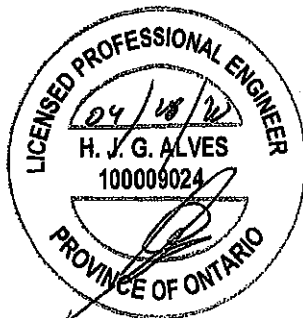
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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.

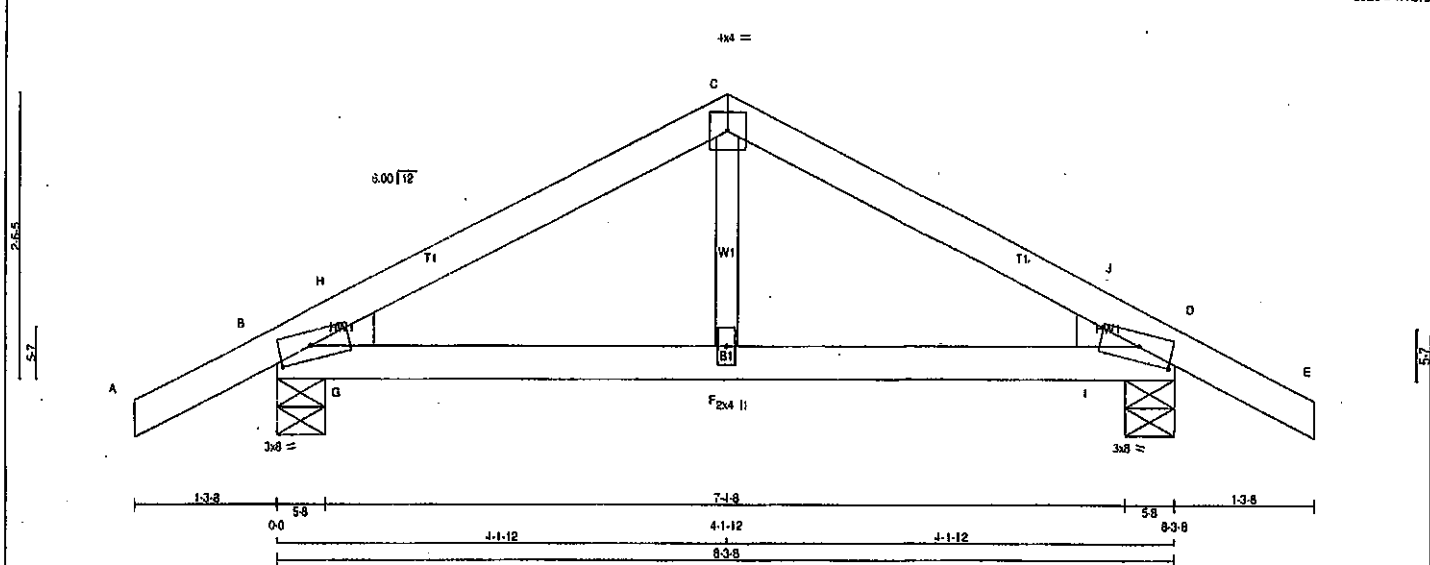
JSI GRIP= 0.18 (E) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007645

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	T36	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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ID:DMCubINVR6TslFos31v6l zns11-TC1H0rp9yRcD1KsxY9WL2ybo51j27vNvQn3qBDzMEMR
Scale = 1:18.9



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

PLATES (Table is in inches)			
JT TYPE	PLATES	W	LEN Y X
B TMBH1-m	MT20	3.0	8.0 1.50 3.75
C TTW-p	MT20	4.0	4.0
D TMBH1-m	MT20	3.0	8.0 1.50 3.75
F BMM-w	MT20	2.0	4.0

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	HEEL
B 582	0	582	0	5-8	5-8	5-8	2x4 L
D 582	0	582	0	5-8	5-8	5-8	2x4 R

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
B 409	282	0	0	0	127	0	0
D 409	282	0	0	0	127	0	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO	LENGTH	FR-TO		LENGTH	
A-B	0 23	-91.8 -91.8	0.12 (1)	10.00	F-C	0 170	0.04 (1)
B-H	-539 0	-91.8 -91.8	0.04 (1)	6.25	G-H	-158 3	0.00 (1)
H-C	-525 0	-91.8 -91.8	0.15 (1)	6.25	I-J	-158 3	0.00 (1)
C-J	-525 0	-91.8 -91.8	0.15 (1)	6.25			
J-D	-539 0	-91.8 -91.8	0.04 (1)	6.25			
D-E	0 23	-91.8 -91.8	0.12 (1)	10.00			
B-G	0 465	-18.5 -18.5	0.21 (1)	10.00			
G-F	0 465	-18.5 -18.5	0.21 (1)	10.00			
F-I	0 465	-18.5 -18.5	0.21 (1)	10.00			
I-O	0 465	-18.5 -18.5	0.21 (1)	10.00			

TOTAL WEIGHT = 3 X 27 = 80 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

1.55% 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

ALLOWABLE DEFL. (LL) = L/360 (0.28")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.28")
CALCULATED VERT. DEFL. (TL) = L/999 (0.02")

CSI: TC=0.15 (C-J:1), BC=0.21 (F-I:1),
WB=0.04 (1.00 (C-F:1), SS=0.12 (1.00 (C-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(P.S.I.) (P.L.I.) (P.L.I.)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1658

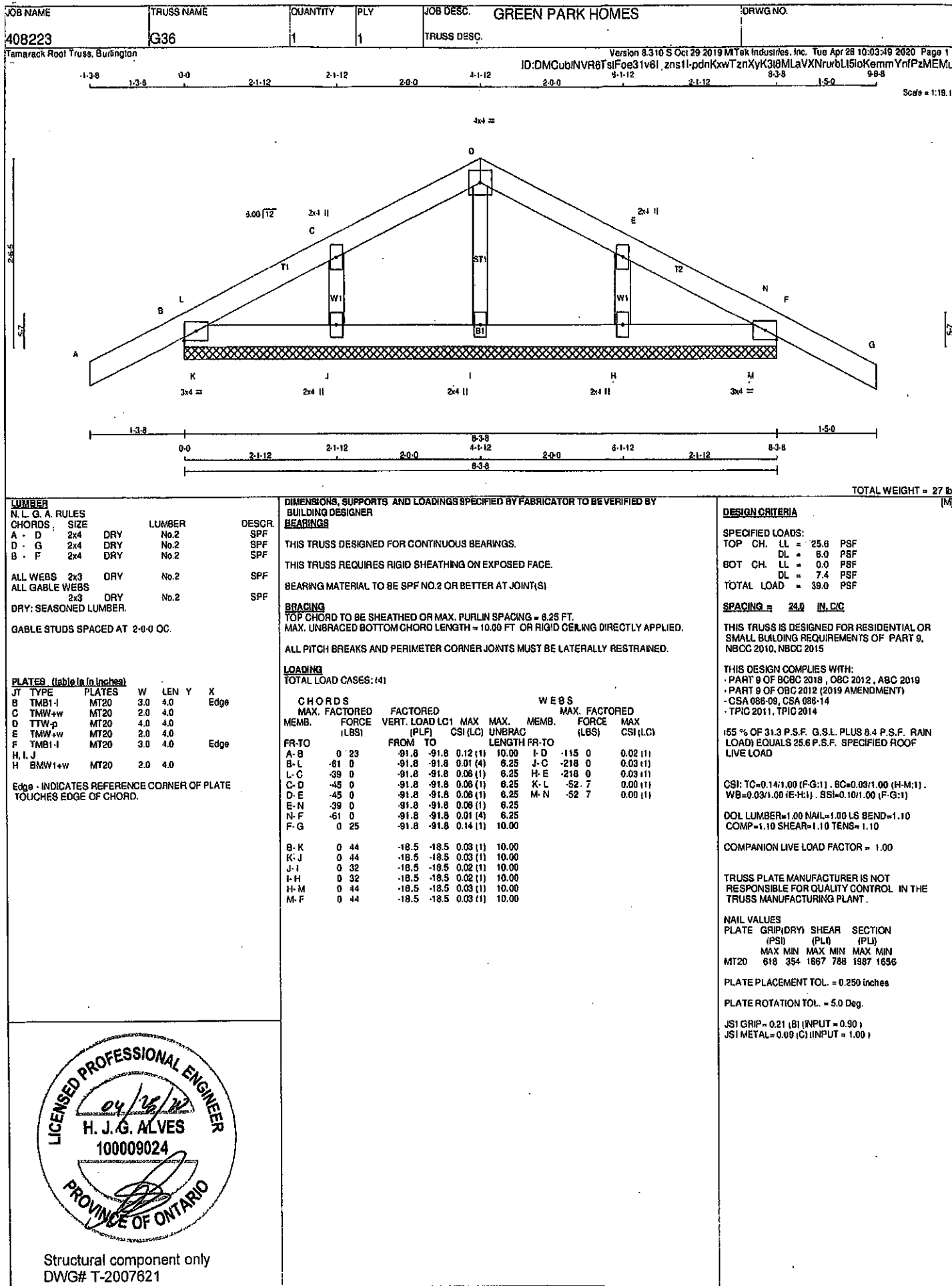
PLATE PLACEMENT TOL. = 0.250 inches

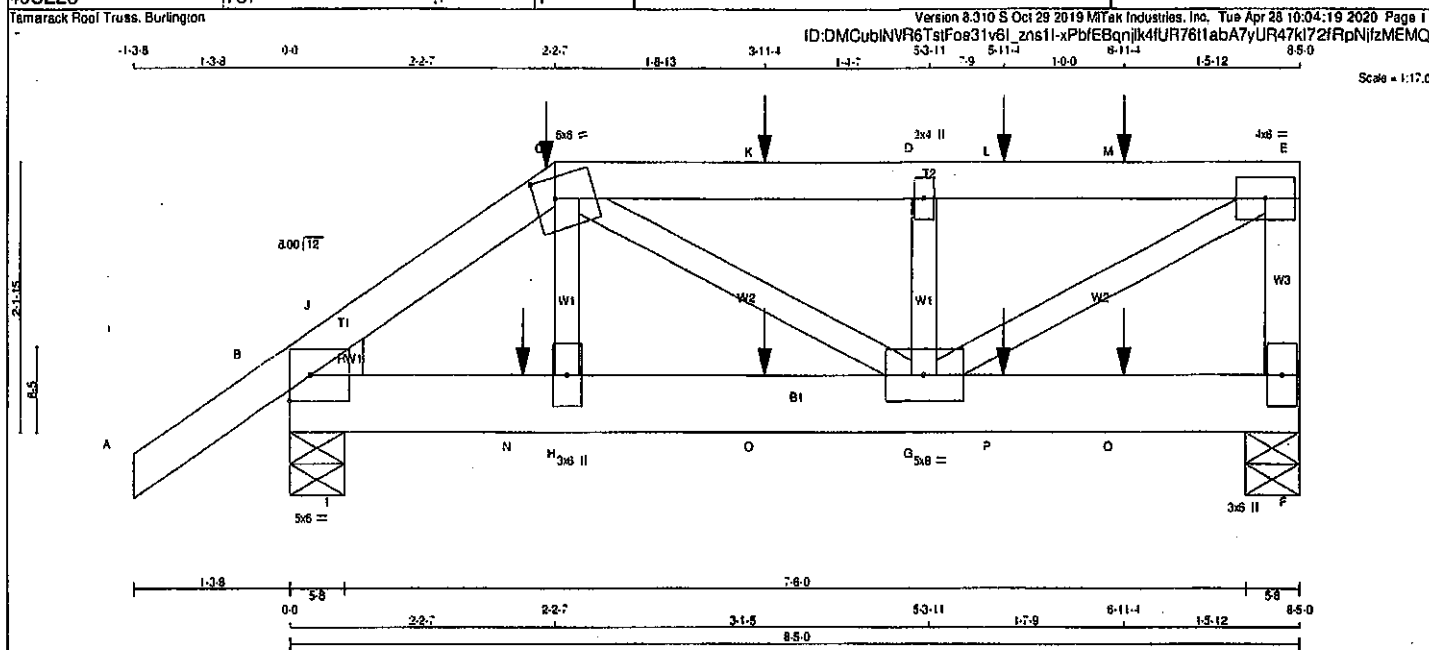
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.25 (B) (INPUT = 0.90)
JSI METAL = 0.11 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007646





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	NO.2
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
F - E	2x4	DRY	No.2
B - F	2x6	DRY	No.2

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

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBH1-I	MT20	5.0	6.0	Edge	
C	TTWW-m	MT20	5.0	6.0	2.00	2.00
D	TMW-w	MT20	2.0	4.0		
E	TMW-w	MT20	4.0	6.0		
F	BMV1-p	MT20	3.0	6.0		
G	BMVWW-I	MT20	5.0	6.0		
H	BMV-w	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

JT	FACTORED		MAXIMUM FACTORED		INPUT	REQD	HEEL
	VERT	HORZ	GROSS REACTION	GROSS REACTION			
F	760	0	760	0	5-8	5-8	
B	823	0	823	0	5-8	5-8	2x4 L

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	537	352.0	0.0	0.0	0.0	165.0	0.0
B	580	392.0	0.0	0.0	0.0	168.0	0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX CS1(LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1(LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 26	-91.8	-91.8 0.13 (1)	10.00	H-C	0 73	0.02 (4)		
B-J	-1068 0	-91.8	-91.8 0.08 (1)	5.39	C-G	0 252	0.06 (1)		
J-C	-980 0	-91.8	-91.8 0.08 (1)	6.25	G-D	-528 0	0.09 (1)		
C-K	-923 0	-91.8	-91.8 0.24 (1)	6.09	G-E	0 1062	0.28 (1)		
K-D	-923 0	-91.8	-91.8 0.24 (1)	6.09	I-J	0 207	0.00 (1)		
D-L	-924 0	-91.8	-91.8 0.24 (1)	6.09					
L-M	-924 0	-91.8	-91.8 0.24 (1)	6.09					
M-E	-924 0	-91.8	-91.8 0.24 (1)	6.09					
F-E	-682 0	0.0	0.0 0.08 (1)	7.81					
B-I	0 701	-18.5	-18.5 0.14 (1)	10.00					
I-N	0 701	-18.5	-18.5 0.14 (1)	10.00					
N-H	0 701	-18.5	-18.5 0.14 (1)	10.00					
H-O	0 705	-18.5	-18.5 0.15 (1)	10.00					
O-G	0 705	-18.5	-18.5 0.15 (1)	10.00					
G-P	0 0	-18.5	-18.5 0.07 (1)	10.00					
P-O	0 0	-18.5	-18.5 0.07 (1)	10.00					
O-F	0 0	-18.5	-18.5 0.07 (1)	10.00					

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	2-2.7	-88	-88	---	FRONT	VERT	TOTAL	---	C1
K	3-11.4	-83	-83	---	FRONT	VERT	TOTAL	---	C1
L	5-11.4	-83	-83	---	FRONT	VERT	TOTAL	---	C1
M	6-11.4	-83	-83	---	FRONT	VERT	TOTAL	---	C1
N	1-11.4	-48	-48	---	FRONT	VERT	TOTAL	---	C1
O	3-11.4	-48	-48	---	FRONT	VERT	TOTAL	---	C1
P	5-11.4	-48	-48	---	FRONT	VERT	TOTAL	---	C1
Q	6-11.4	-48	-48	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER MECHANICAL CONNECTION IS REQUIRED

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, 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 (0.28")
CALCULATED VERT. DEFL. (LL) = L/989 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.28")
CALCULATED VERT. DEFL. (TL) = L/989 (0.03")

CSI: TC=0.24/1.00 (D-E:1), BC=0.15/1.00 (G-H:1), WB=0.26/1.00 (E-G:1), SS=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

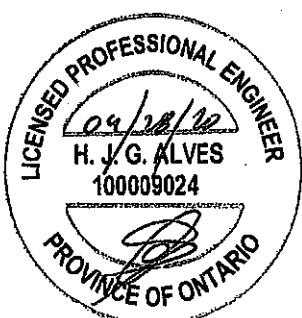
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

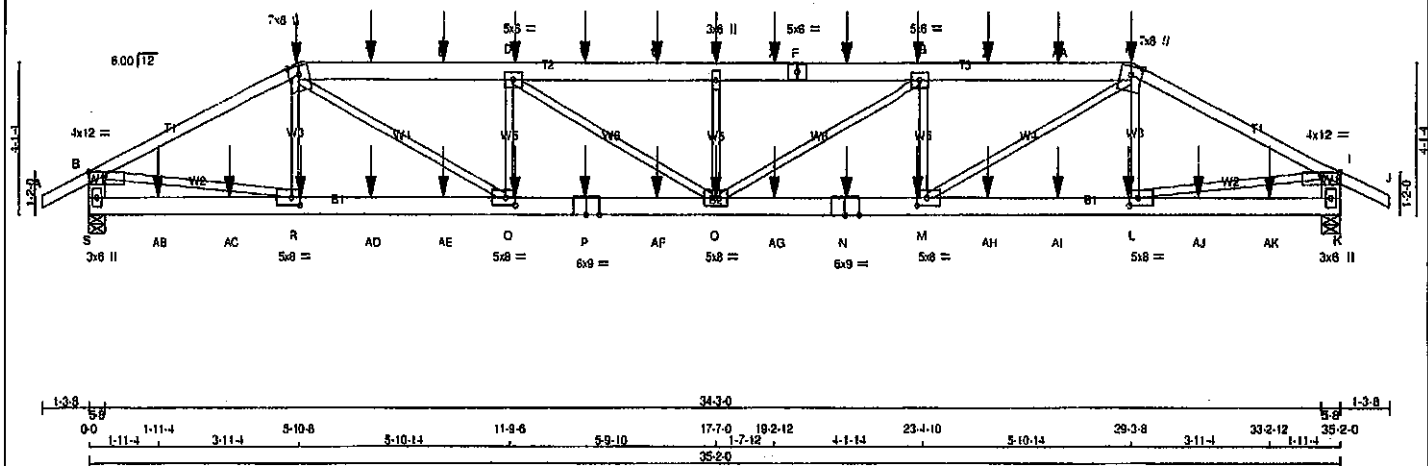
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (E) (INPUT = 0.90)
JSI METAL= 0.24 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007647

JOB NAME 408224	TRUSS NAME T40	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Tue Apr 26 10:19:57 2020 Page 1	
ID:DMCubINVR6TstFoe31v8l_zns11-TsGG5wA9pyw_Bd8P2IsXcZ_APYAIVTa7LN10dlzME7m				35-2-0 35-5-8	
-1-3-8 0-0 5-10-8 5-10-8 5-10-14 11-9-6 5-9-10 17-7-0 19-2-12 3-1-14 23-4-10 5-10-14 29-3-8 5-10-8 35-2-0 35-5-8				Scale = 1:57.6	



LUMBER	SIZE	DRY	No.2	DESCR.
N. L. G. A. RULES				
CHORDS				
A - C	2x4	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
S - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
S - P	2x6	DRY	1650F 1.5E	SPF
P - N	2x6	DRY	1650F 1.5E	SPF
N - K	2x6	DRY	1650F 1.5E	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122'X3') SPIRAL NAILS		
A - C	12	SIDE(181.0)
H - J	12	SIDE(181.0)
C - F	12	SIDE(183.1)
F - H	12	SIDE(183.1)
S - B	12	TOP
K - I	12	TOP
BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS		
S - P	12	SIDE(183.1)
P - N	12	SIDE(183.1)
N - K	12	SIDE(183.1)
WEBS : (0.122'X3') SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
S	3323	0	3323	0
K	3323	0	3323	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT	SNOW	LIVE	PERM. LIVE	
S	2350	1538	0	0
K	2350	1538	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
A-B	0 28	-91.8	-91.8	0.07 (1)	10.00	R-C	-413 20	0.05 (1)	
B-C	-5066 0	-91.8	-91.8	0.52 (1)	3.87	C-Q	0 3193	0.40 (1)	
C-T	-7284 0	-91.8	-91.8	0.27 (1)	4.28	Q-D	-1500 0	0.18 (1)	
T-U	-7284 0	-91.8	-91.8	0.27 (1)	4.28	D-O	0 946	0.12 (1)	
U-D	-7284 0	-91.8	-91.8	0.27 (1)	4.28	O-E	-830 0	0.10 (1)	
D-V	-8064 0	-91.8	-91.8	0.27 (1)	4.08	E-G	0 948	0.12 (1)	
V-W	-8064 0	-91.8	-91.8	0.27 (1)	4.08	M-H	-1500 0	0.18 (1)	
W-E	-8064 0	-91.8	-91.8	0.27 (1)	4.08	M-G	0 3193	0.40 (1)	
E-X	-8064 0	-91.8	-91.8	0.27 (1)	4.08	L-H	-413 20	0.05 (1)	
X-F	-8064 0	-91.8	-91.8	0.27 (1)	4.08	B-R	0 4582	0.57 (1)	
F-Y	-8064 0	-91.8	-91.8	0.27 (1)	4.08	L-I	0 4582	0.57 (1)	
Y-G	-8064 0	-91.8	-91.8	0.27 (1)	4.08				
G-Z	-7284 0	-91.8	-91.8	0.27 (1)	4.28				
Z-AA	-7284 0	-91.8	-91.8	0.27 (1)	4.28				
AA-H	-7284 0	-91.8	-91.8	0.27 (1)	4.28				
H-I	-5065 0	-91.8	-91.8	0.52 (1)	3.87				
I-J	0 28	-91.8	-91.8	0.07 (1)	10.00				
S-B	-3248 0	0.0	0.0	0.11 (1)	7.69				
K-L	-3248 0	0.0	0.0	0.11 (1)	7.69				

S-AB	0	0	-18.5	-18.5	0.04 (4)	10.00
AB-AC	0	0	-18.5	-18.5	0.04 (4)	10.00
AC-R	0	0	-18.5	-18.5	0.04 (4)	10.00
R-AD	0	4553	-18.5	-18.5	0.22 (1)	10.00
AD-AE	0	4553	-18.5	-18.5	0.22 (1)	10.00
AE-Q	0	4553	-18.5	-18.5	0.22 (1)	10.00
Q-P	0	7283	-18.5	-18.5	0.34 (1)	10.00
P-AF	0	7283	-18.5	-18.5	0.34 (1)	10.00
AF-O	0	7283	-18.5	-18.5	0.34 (1)	10.00
O-AG	0	7283	-18.5	-18.5	0.34 (1)	10.00
AG-N	0	7283	-18.5	-18.5	0.34 (1)	10.00
N-M	0	7283	-18.5	-18.5	0.34 (1)	10.00
MAH	0	4553	-18.5	-18.5	0.22 (1)	10.00
AH-AI	0	4553	-18.5	-18.5	0.22 (1)	10.00
AI-L	0	4553	-18.5	-18.5	0.22 (1)	10.00
L-AJ	0	0	-18.5	-18.5	0.04 (4)	10.00
AJ-AK	0	0	-18.5	-18.5	0.04 (4)	10.00
AK-K	0	0	-18.5	-18.5	0.04 (4)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-429	-429	---	FRONT	VERT	TOTAL	C1
D	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	C1

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.39")

CS: TC=0.52(1.00)(B-C:1), BC=0.34(1.00)(O-Q:1), WB=0.57(1.00)(B-R:1), SS=0.15(1.00)(G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.56 (R) (INPUT = 0.90)
JSI METAL = 0.56 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007660 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T40	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TslFoe31v6I zns1I-TsGG5wA9pyw Bd8P2isXcz APYAIVTa7LN1OdIzME7m

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	4.0	12.0	1.00	5.50
C	TTWW+m	MT20	7.0	8.0	Edge	
D	TMWV-l	MT20	5.0	6.0		
E	TMW+w	MT20	3.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMWV-l	MT20	5.0	6.0		
H	TTWW+m	MT20	7.0	8.0	Edge	
I	TMWV-p	MT20	4.0	12.0	1.00	5.50
K	BMV1+p	MT20	3.0	6.0		
L	BMWV-l	MT20	5.0	8.0	2.50	3.00
M	BMWV-l	MT20	5.0	8.0	2.50	3.25
N	BS-l	MT20	6.0	9.0		
O	BMWVW-l	MT20	5.0	8.0		
P	BS-l	MT20	6.0	9.0		
Q	BMWV-l	MT20	5.0	8.0	2.50	3.25
R	BMWV-l	MT20	5.0	8.0	2.50	3.00
S	BMV1+p	MT20	3.0	6.0		

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	17-7-0	-110	-110	---	FRONT	VERT	TOTAL	---	C1
G	23-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	29-3-8	-429	-429	---	FRONT	VERT	TOTAL	---	C1
L	29-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
M	23-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	21-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	17-7-0	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
Q	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	19-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	21-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	25-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	27-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AC	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	19-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	25-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	27-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	31-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	33-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1

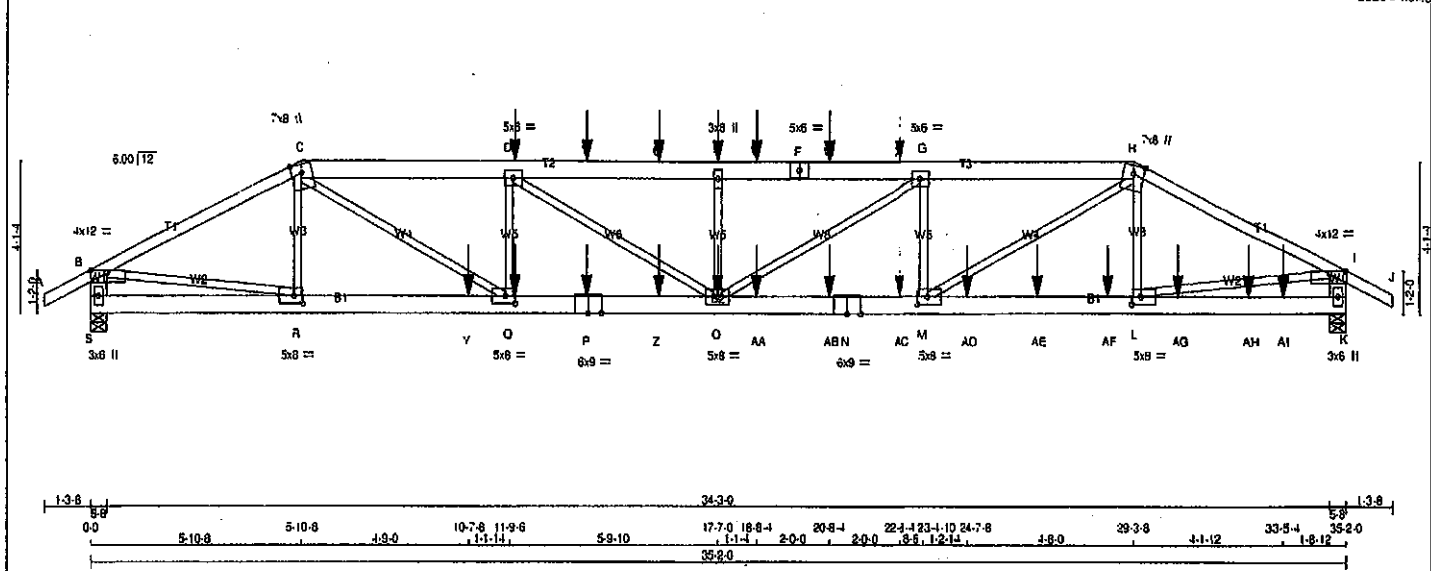
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007660

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T40Z	1	2	TRUSS DESC.	GREEN PARK HOMES



TOTAL HEIGHT = 2 X 169 = 338' [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x3	DRY No.2	SPF
F - H	2x3	DRY No.2	SPF
H - J	2x4	DRY No.2	SPF
S - B	2x6	DRY No.2	SPF
K - I	2x6	DRY No.2	SPF
S - P	2x6	DRY 1650F 1.5E	SPF
P - N	2x6	DRY 1650F 1.5E	SPF
N - K	2x6	DRY 1650F 1.5E	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	1 12	TOP
H - J	1 12	SIDE(183.1)
C - F	2 12	SIDE(0.0)
F - H	2 12	TOP
S - B	2 12	TOP
K - I	2 12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P	2 12	SIDE(183.1)
P - N	2 12	SIDE(183.1)
N - K	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.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG DOWN	REQD BRG IN-SX					
JT	VERT	0	0	0	0	0	0	0	0
S	HORIZ	4161 0	4161 0	5-8	5-8				
K	VERT	5042 0	5042 0	5-8	5-8				
UNFACTORED REACTIONS									
	1ST CASE	MAX. MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
S	2336	1965	0	0	0	0	0	0	0
K	3552	2409	0	0	0	1143	0	0	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.95 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)
FR-TO		FROM TO	
A-B	0 28	-81.8 -91.8 0.07 (1)	10.00
B-C	-6650 0	-91.8 -91.8 0.66 (1)	3.34
C-D	-10735 0	-91.8 -91.8 0.33 (1)	3.55
D-T	-12119 0	-91.8 -91.8 0.40 (1)	3.30
T-U	-12119 0	-91.8 -91.8 0.40 (1)	3.30
U-E	-12119 0	-91.8 -91.8 0.40 (1)	3.30
E-V	-12119 0	-91.8 -91.8 0.45 (1)	3.23
V-F	-12119 0	-91.8 -91.8 0.45 (1)	3.23
F-W	-12119 0	-91.8 -91.8 0.45 (1)	3.23
W-X	-12119 0	-91.8 -91.8 0.45 (1)	3.23
X-G	-12119 0	-91.8 -91.8 0.45 (1)	3.23
G-H	-12159 0	-91.8 -91.8 0.39 (1)	3.30
H-I	-8042 0	-91.8 -91.8 0.81 (1)	2.95
I-J	0 28	-91.8 -91.8 0.07 (1)	10.00
S-B	-4141 0	0.0 0.0 0.15 (1)	7.00
K-I	-4926 0	0.0 0.0 0.17 (1)	6.55
WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO			
R-C	-470 0	0.08 (1)	
C-Q	0 5008	0.69 (1)	
Q-D	-1678 0	0.20 (1)	
D-O	0 -1636	0.20 (1)	
O-E	-1004 0	0.12 (1)	
C-G	-46 33	0.02 (1)	
M-G	-828 0	0.10 (1)	
H-H	0 5832	0.72 (1)	
L-H	0 57	0.01 (1)	
B-R	0 6014	0.74 (1)	
L-I	0 7274	0.90 (1)	

S-R	0 0	-18.5 -18.5 0.05 (1)	10.00
R-Y	0 5974	-18.5 -18.5 0.44 (1)	10.00
Y-Q	0 5974	-18.5 -18.5 0.44 (1)	10.00
Q-P	0 10734	-18.5 -18.5 0.54 (1)	10.00
P-Z	0 10734	-18.5 -18.5 0.54 (1)	10.00
Z-O	0 10734	-18.5 -18.5 0.54 (1)	10.00
O-AA	0 12159	-18.5 -18.5 0.71 (1)	10.00
AA-BB	0 12159	-18.5 -18.5 0.71 (1)	10.00
BB-N	0 12159	-18.5 -18.5 0.71 (1)	10.00
N-AC	0 12159	-18.5 -18.5 0.71 (1)	10.00
AC-M	0 12159	-18.5 -18.5 0.71 (1)	10.00
M-AD	0 7208	-18.5 -18.5 0.69 (1)	10.00
AD-AE	0 7208	-18.5 -18.5 0.69 (1)	10.00
AE-AF	0 7208	-18.5 -18.5 0.69 (1)	10.00
AF-L	0 7208	-18.5 -18.5 0.69 (1)	10.00
L-AG	0 0	-18.5 -18.5 0.16 (1)	10.00
AG-AH	0 0	-18.5 -18.5 0.16 (1)	10.00
AH-AI	0 0	-18.5 -18.5 0.16 (1)	10.00
AI-K	0 0	-18.5 -18.5 0.16 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
D	11-11-4	-110	-110	---	BACK	VERT	TOTAL
E	17-7-0	-110	-110	---	BACK	VERT	TOTAL
O	17-7-0	-26	-26	---	BACK	VERT	TOTAL
P	13-11-4	-26	-26	---	BACK	VERT	TOTAL

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T40Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsIFoe31v6I_zns1l-x2qeJGBoaF2mnibcaNm9BWHeyO8EpcGaImZAkzME7l

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	12.0	1.00	5.50
C	TTWW+m	MT20	7.0	8.0	Edge	
D	TMWW-l	MT20	5.0	6.0		
E	TMW+rw	MT20	3.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMWW-l	MT20	5.0	6.0		
H	TTWW+m	MT20	7.0	8.0	Edge	
I	TMVW-p	MT20	4.0	12.0	1.00	5.50
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	8.0	2.50	3.00
M	BMWW-l	MT20	5.0	8.0	2.50	3.25
N	BS-l	MT20	6.0	9.0		
O	BMWW-l	MT20	5.0	8.0		
P	BS-l	MT20	6.0	9.0		
Q	BMWW-l	MT20	5.0	8.0	2.50	3.25
R	BMWW-l	MT20	5.0	8.0	2.50	3.00
S	BMV1+p	MT20	3.0	6.0		

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

FACTORED CONCENTRATED LOADS (LBS)

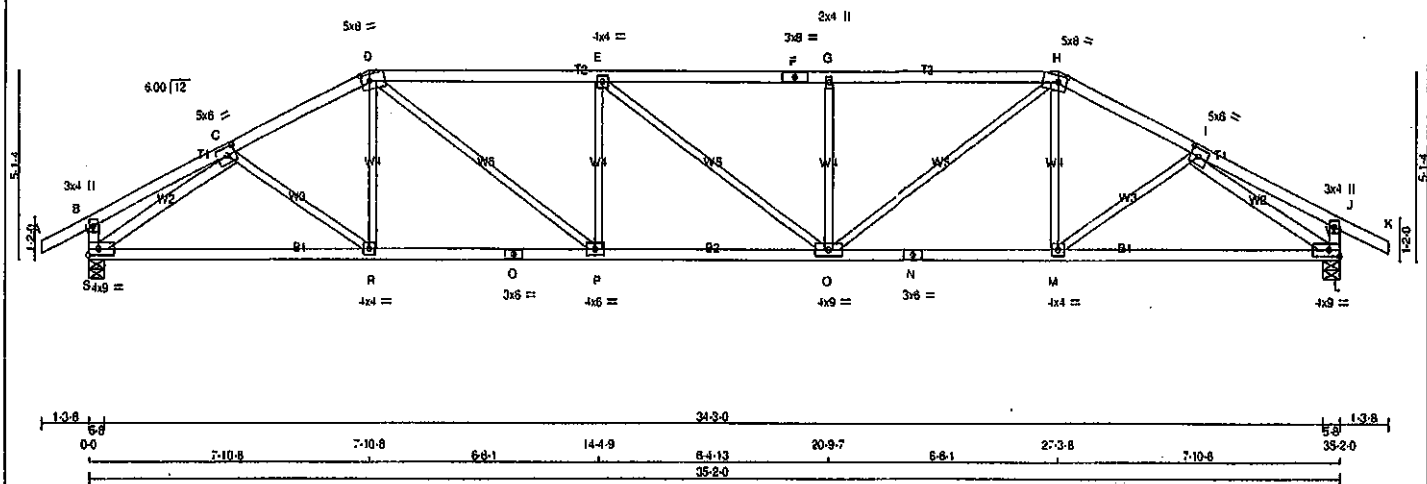
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
O	11-11-4	-28	-26	---	BACK	VERT	TOTAL	---	C1
T	13-11-4	-110	-110	---	BACK	VERT	TOTAL	---	C1
U	15-11-4	-110	-110	---	BACK	VERT	TOTAL	---	C1
V	18-8-4	-110	-110	---	BACK	VERT	TOTAL	---	C1
W	20-8-4	-159	-159	---	BACK	VERT	TOTAL	---	C1
X	22-8-4	-159	-159	---	BACK	VERT	TOTAL	---	C1
Y	10-7-8	-1171	-1171	---	BACK	VERT	TOTAL	---	C1
Z	15-11-4	-26	-26	---	BACK	VERT	TOTAL	---	C1
AA	18-8-4	-26	-26	---	BACK	VERT	TOTAL	---	C1
AB	20-8-4	-32	-32	---	BACK	VERT	TOTAL	---	C1
AC	22-8-4	-32	-32	---	BACK	VERT	TOTAL	---	C1
AD	24-7-8	-2237	-2237	---	BACK	VERT	TOTAL	---	C1
AE	26-8-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AF	28-8-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AG	30-8-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AH	32-8-12	-121	-121	---	BACK	VERT	TOTAL	---	C1
AI	33-5-4	-121	-121	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

11 C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2007661 *7/2*



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
S - O	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
S - C	2x4	DRY	No.2
I - L	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		
C	TMWW-I	MT20	5.0	6.0	2.50	2.75
D	TTWW-m	MT20	5.0	6.0	2.25	2.75
E	TMWW-I	MT20	4.0	4.0		
F	TS-I	MT20	3.0	4.0		
G	TMWW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	3.0	2.25	2.75
I	TMWW-I	MT20	5.0	6.0	2.50	2.75
J	TMV+p	MT20	3.0	4.0		
L	BMVW-I	MT20	4.0	9.0		Edge
M	BMWW-I	MT20	4.0	4.0		
N	BS-I	MT20	3.0	6.0		
O	BMWW-w	MT20	4.0	9.0		
P	BMWW-I	MT20	4.0	6.0		
Q	BS-I	MT20	3.0	6.0		
R	BMWW-I	MT20	4.0	4.0		
S	BMVW-I	MT20	4.0	9.0		Edge

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
S	2063	0	2063	0	5-8	5-8
L	2063	0	2063	0	5-8	5-8

UNFACTORED REACTIONS							
	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
S	1457	989 0	0 0	0 0	0 0	488 0	0 0
L	1457	989 0	0 0	0 0	0 0	488 0	0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.94 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 28	-91.8	-91.8 0.12 (1)	10.00	C-R	0 93	0.03 (4)
B-C	0 16	-91.8	-91.8 0.20 (1)	10.00	R-D	0 121	0.04 (4)
C-D	-2799 0	-91.8	-91.8 0.32 (1)	3.88	D-P	0 1267	0.29 (1)
D-E	-3508 0	-91.8	-91.8 0.95 (1)	2.94	P-E	-543 0	0.25 (1)
E-F	-3507 0	-91.8	-91.8 0.93 (1)	2.94	E-O	2 0	0.00 (1)
F-G	-3507 0	-91.8	-91.8 0.93 (1)	2.94	O-G	-843 0	0.25 (1)
G-H	-3507 0	-91.8	-91.8 0.94 (1)	2.95	O-H	0 1268	0.28 (1)
H-I	-2799 0	-91.8	-91.8 0.32 (1)	3.88	M-I	0 121	0.04 (4)
I-J	0 16	-91.8	-91.8 0.20 (1)	10.00	M-I	0 93	0.03 (4)
J-K	0 28	-91.8	-91.8 0.12 (1)	10.00	S-C	-2974 0	0.83 (1)
S-B	-270 0	0.0	0.0 0.03 (1)	7.81	I-L	-2974 0	0.83 (1)
L-J	-270 0	0.0	0.0 0.03 (1)	7.81			
S-R	0 2417	-18.5	-18.5 0.53 (1)	10.00			
R-Q	0 2489	-18.5	-18.5 0.54 (1)	10.00			
Q-P	0 2489	-18.5	-18.5 0.54 (1)	10.00			
P-O	0 3509	-18.5	-18.5 0.84 (1)	10.00			
O-N	0 2489	-18.5	-18.5 0.54 (1)	10.00			
N-M	0 2489	-18.5	-18.5 0.54 (1)	10.00			
M-L	0 2417	-18.5	-18.5 0.53 (1)	10.00			

TOTAL WEIGHT = 2 X 139 = 278 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/G

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

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

THIS DESIGN COMPLIES WITH:

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

165 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17')
 CALCULATED VERT. DEFL.(LL) = L/999 (0.21')
 ALLOWABLE DEFL.(TL) = L/360 (1.17')
 CALCULATED VERT. DEFL.(TL) = L/999 (0.41')

CSI: TC=0.95/1.00 (D-E:1), BC=0.84/1.00 (O-P:1), WB=0.83/1.00 (I-L:1), SS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE FEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (I) INPUT = 0.90 ;
 JSI METAL = 0.77 (N) INPUT = 1.00 ;

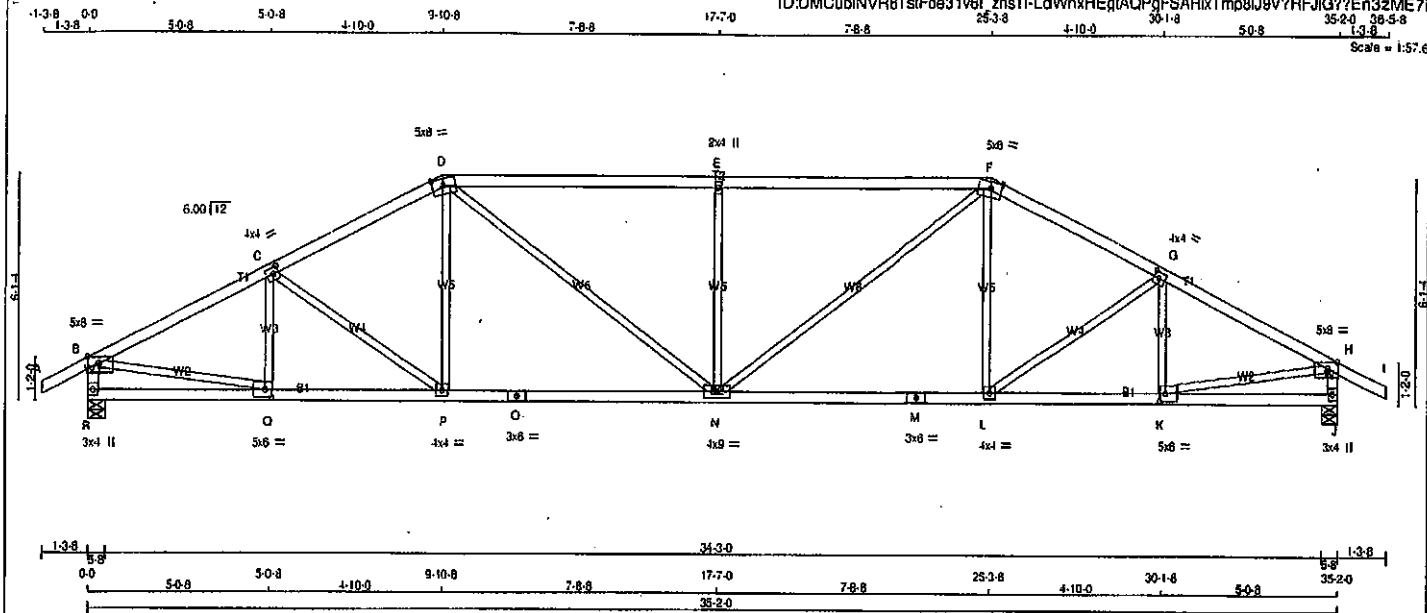


Structural component only
 DWG# T-2007662

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DWG NO.
408224	T42	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	8.0	Edge 3.50
C	TMWV-t	MT20	4.0	4.0	2.00 1.75
D	TTWW-m	MT20	5.0	8.0	2.25 3.75
E	TMW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	8.0	2.25 3.75
G	TMWV-t	MT20	4.0	4.0	2.00 1.75
H	TMWV-p	MT20	5.0	8.0	Edge 3.50
J	BMV1-p	MT20	3.0	4.0	
K	BMWV-t	MT20	5.0	6.0	2.50 2.00
L	BMWV-t	MT20	4.0	4.0	
M	BS-t	MT20	3.0	6.0	
N	BMWV-t	MT20	4.0	4.0	
O	BS-t	MT20	3.0	6.0	
P	BMWV-t	MT20	4.0	4.0	
Q	BMWV-t	MT20	5.0	6.0	2.50 2.00
R	BMV1-p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
R	2063	0	2063	0	5-8	5-8
J	2063	0	2063	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
R	1457	969	0	0	0	488	0
J	1457	969	0	0	0	488	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.78 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)
FR-TO				
A-B	0	28	-91.8	-91.8
B-C	-2834	0	-91.8	-91.8
C-D	-2887	0	-91.8	-91.8
D-E	-3060	0	-91.8	-91.8
E-F	-3060	0	-91.8	-91.8
F-G	-2887	0	-91.8	-91.8
G-H	-2834	0	-91.8	-91.8
H-I	0	28	-91.8	-91.8
I-J	-2018	0	0.0	0.0
J-H	-2018	0	0.0	0.0
R-Q	0	0	-18.5	-18.5
Q-P	0	2555	-18.5	-18.5
P-O	0	2386	-18.5	-18.5
O-N	0	2386	-18.5	-18.5
N-M	0	2386	-18.5	-18.5
M-L	0	2386	-18.5	-18.5
L-K	0	2555	-18.5	-18.5
K-J	0	0	-18.5	-18.5

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. OC

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

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

THIS DESIGN COMPLIES WITH:

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

155 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.34")

CSI: TC=0.97 1.00 (D-E:1), BC=0.51 1.00 (P-Q:1), WB=0.58 1.00 (B-Q:1), SS=0.34 1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

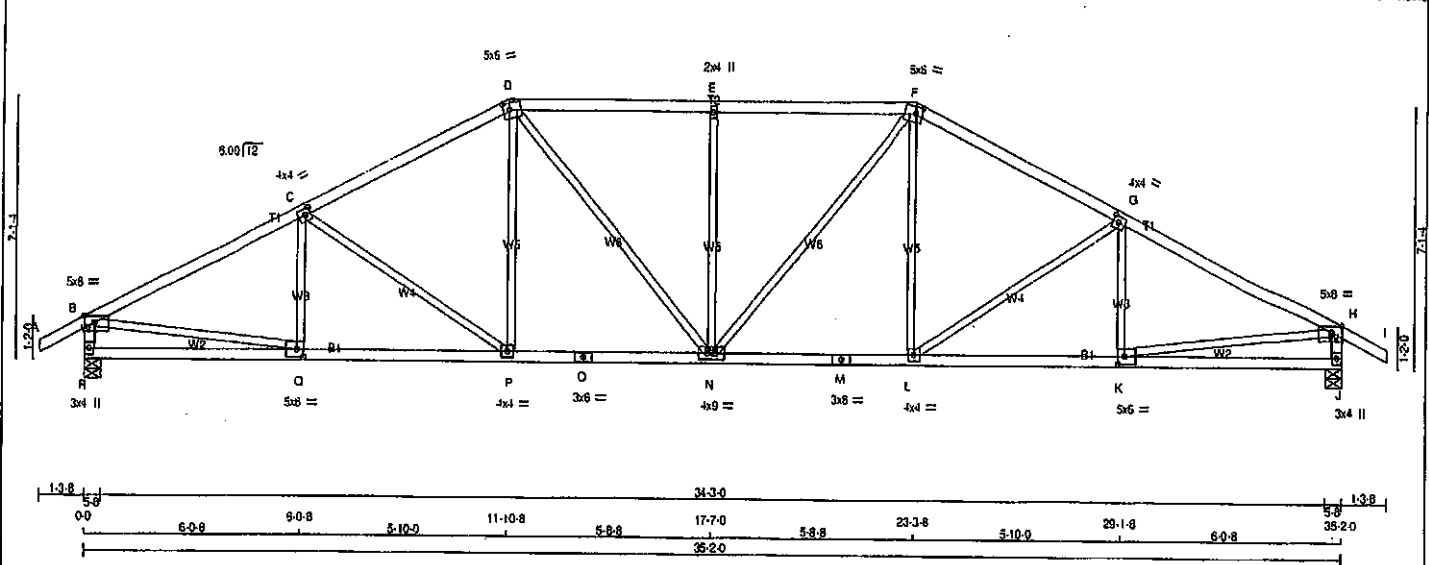
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (F) INPUT = 0.90
JSI METAL = 0.75 (M) INPUT = 1.00



Structural component only
DWG# T-2007663

JOB NAME 408224	TRUSS NAME T43	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 M Tek Industries, Inc. Tue Apr 28 10:20:02 2020 Page 1	
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Scale = 1:57.8					



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

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

BEARINGS					
FACTORED		MAXIMUM FACTORED		INPUT REQD	
GROSS REACTION		GROSS REACTION		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
R	2063	0	2063	0	5-8
J	2063	0	2063	0	5-8

UNFACTORED REACTIONS

1ST CASE MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND DEAD SOIL
R	1457	989	0	0	0 0 488 0 0 0
J	1457	989	0	0	0 0 488 0 0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX. FACTORED	MEMB.	MAX. FACTORED	FACTORED	MAX. FACTORED
	FORCE (LBS)	VERT. LOAD (PLF)	MAX. (LC)		FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 28	-91.8	-91.8 0.12 (1)	10.00	Q-C	-255 12	0.07 (1)
B-C	-2889 0	-91.8	-91.8 0.58 (1)	3.58	C-P	-435 0	0.42 (1)
C-D	-2539 0	-91.8	-91.8 0.52 (1)	3.83	P-D	0 350	0.08 (1)
D-E	-2559 0	-91.8	-91.8 0.48 (1)	3.85	D-N	0 482	0.11 (1)
E-F	-2559 0	-91.8	-91.8 0.48 (1)	3.85	N-E	-541 0	0.58 (1)
F-G	-2539 0	-91.8	-91.8 0.52 (1)	3.83	N-F	0 482	0.11 (1)
G-H	-2889 0	-91.8	-91.8 0.58 (1)	3.58	L-F	0 350	0.08 (1)
H-I	0 28	-91.8	-91.8 0.12 (1)	10.00	L-G	-435 0	0.42 (1)
I-R	-2014 0	0.0	0.0 0.20 (1)	5.95	K-G	-255 12	0.07 (1)
J-H	-2014 0	0.0	0.0 0.20 (1)	5.95	B-Q	0 2635	0.59 (1)
R-Q	0 0	-18.5	-18.5 0.15 (4)	10.00	K-H	0 2635	0.59 (1)
Q-P	0 2609	-18.5	-18.5 0.49 (1)	10.00			
P-O	0 2249	-18.5	-18.5 0.43 (1)	10.00			
O-N	0 2249	-18.5	-18.5 0.43 (1)	10.00			
N-M	0 2249	-18.5	-18.5 0.43 (1)	10.00			
M-L	0 2249	-18.5	-18.5 0.43 (1)	10.00			
L-K	0 2609	-18.5	-18.5 0.49 (1)	10.00			
K-J	0 0	-18.5	-18.5 0.15 (4)	10.00			

TOTAL WEIGHT = 2 X 145 = 289 lb (M/F)

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, 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 28.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/380 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.58;1.00 (G-H:1), BC=0.49;1.00 (K-L:1), WB=0.59;1.00 (H-K:1), SS=0.25;1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

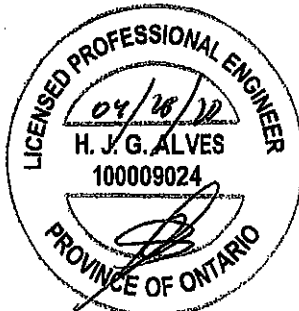
NAIL VALUES

PLATE GRIP/DRY SHEAR SECTION
(PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

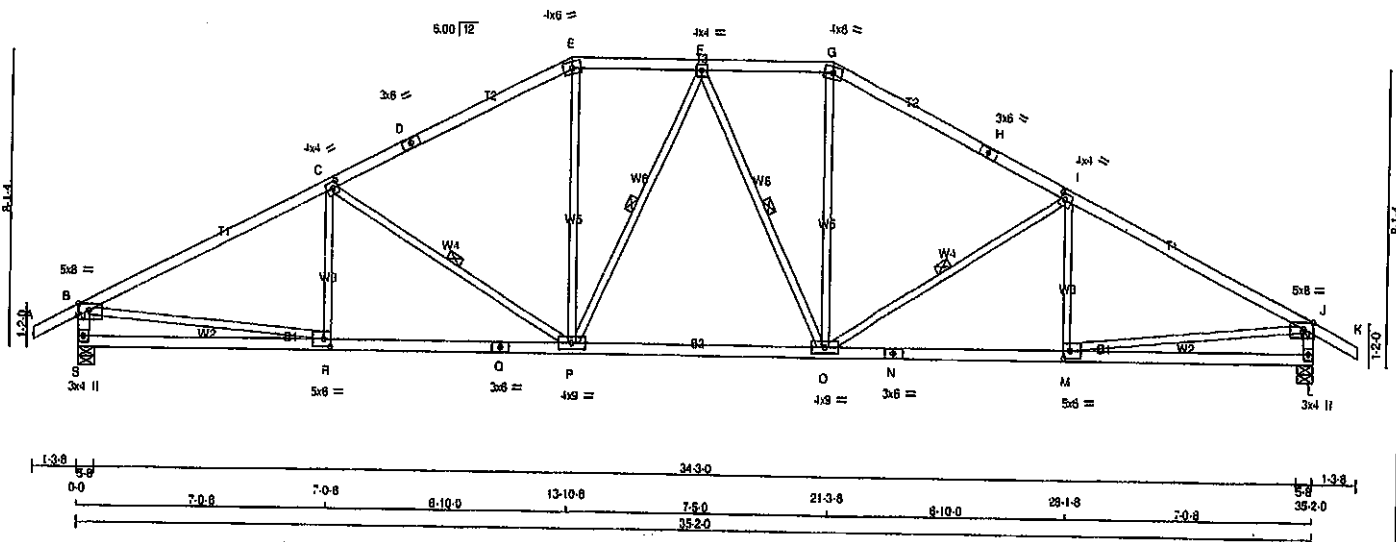
JSI GRIP = 0.89 (Q) (INPUT = 0.90)
JSI METAL = 0.69 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007684

JOB NAME 408224	TRUSS NAME T44	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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352-0 358-8
Scale = 1:58.0



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

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	8.0 Edge 3.50
C	TMVW-i	MT20	4.0	4.0 2.00 1.75
D	TS-i	MT20	3.0	6.0
E	TTW-m	MT20	4.0	6.0
F	TMVW-i	MT20	4.0	4.0
G	TTW-m	MT20	4.0	8.0
H	TS-i	MT20	3.0	6.0
I	TMVW-i	MT20	4.0	4.0 2.00 1.75
J	TMVW-p	MT20	5.0	8.0 Edge 3.50
L	BMV-i-p	MT20	3.0	4.0
M	BMVW-i	MT20	5.0	6.0 2.50 2.25
N	BS-i	MT20	3.0	6.0
O	BMVWV-i	MT20	4.0	9.0
P	BMVWV-i	MT20	4.0	9.0
Q	BS-i	MT20	3.0	6.0
R	BMVW-i	MT20	5.0	6.0 2.50 2.25
S	BMV-i-p	MT20	3.0	4.0

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
S	2063	0	2063	0	0
L	2063	0	2063	0	0

UNFACTORED REACTIONS

JT	COMBINED	1ST CASE	MAX. MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	1457	969	0	0	0	0	488	0
L	1457	969	0	0	0	0	488	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)	MEMB.
FR-TO				FR-TO			
A-B	0 28	-91.8	-91.8 0.12 (1)	10.00	R-C	-182 52	0.06 (1)
B-C	-2906 0	-91.8	-91.8 0.83 (1)	3.25	C-P	-637 0	0.29 (1)
C-D	-2373 0	-91.8	-91.8 0.72 (1)	3.66	P-E	0 674	0.15 (1)
D-E	-2373 0	-91.8	-91.8 0.72 (1)	3.66	F-F	-222 0	0.11 (1)
E-F	-2100 0	-91.8	-91.8 0.19 (1)	4.53	F-Q	-222 0	0.11 (1)
F-G	-2100 0	-91.8	-91.8 0.19 (1)	4.53	O-G	0 674	0.15 (1)
G-H	-2373 0	-91.8	-91.8 0.72 (1)	3.66	O-I	-637 0	0.29 (1)
H-I	-2373 0	-91.8	-91.8 0.72 (1)	3.66	M-I	-182 52	0.06 (1)
I-J	-2906 0	-91.8	-91.8 0.83 (1)	3.25	B-R	0 2649	0.60 (1)
J-K	0 28	-91.8	-91.8 0.12 (1)	10.00	M-J	0 2649	0.60 (1)
S-B	-2008 0	0.0	0.0 0.20 (1)	5.98			
L-J	-2008 0	0.0	0.0 0.20 (1)	5.98			
S-R	0 0	-18.5	-18.5 0.20 (4)	10.00			
R-O	0 2630	-18.5	-18.5 0.52 (1)	10.00			
O-P	0 2630	-18.5	-18.5 0.52 (1)	10.00			
P-Q	0 2193	-18.5	-18.5 0.45 (1)	10.00			
Q-N	0 2630	-18.5	-18.5 0.52 (1)	10.00			
N-M	0 2630	-18.5	-18.5 0.52 (1)	10.00			
M-L	0 0	-18.5	-18.5 0.20 (4)	10.00			

TOTAL WEIGHT = 2 X 145 = 291 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.83/1.00 (I-J), BC=0.52/1.00 (M-O), WB=0.60/1.00 (J-M), SSI=0.28/1.00 (B-C)

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.

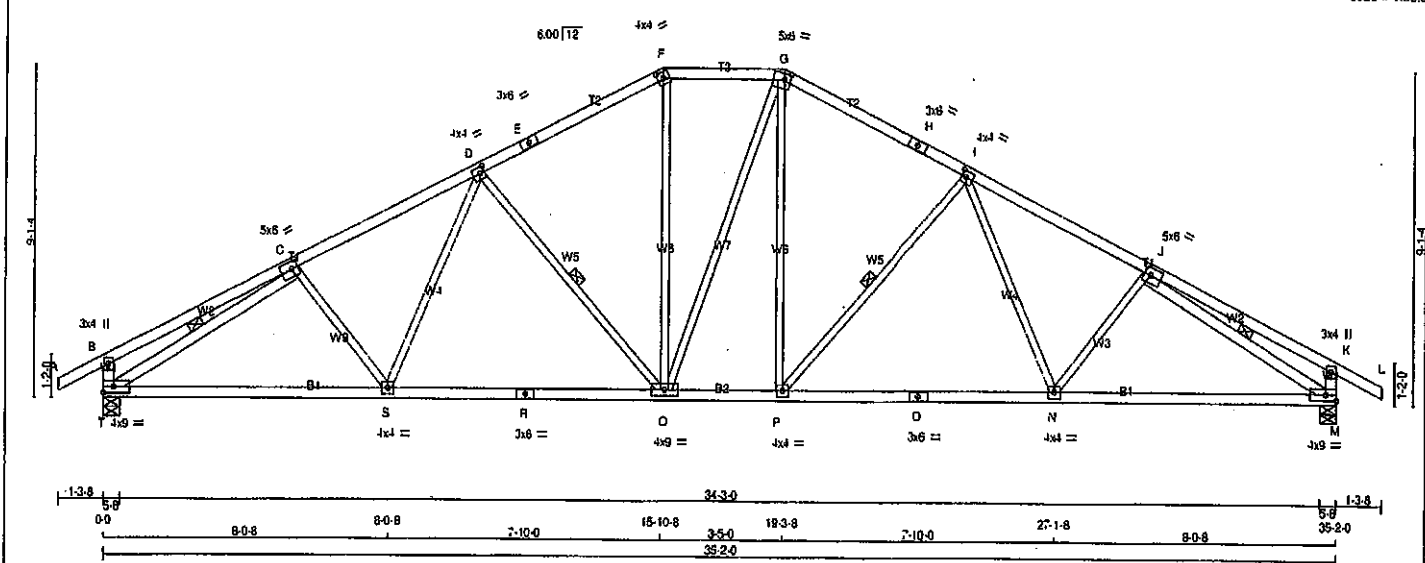
JSI GRIP = 0.88 (M) INPUT = 0.90
JSI METAL = 0.79 (C) INPUT = 1.00



Structural component only
DWG# T-2007665

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T45	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 9 Oct 2019 MTEK Industries, Inc. Tue Apr 26 10:20:04 2020 Page 1			

ID:DMCubINV6TsiFoe31v6L_zns11-mCBvZJGY95o_Xi8IzrUBOSmOWNWqscd9yyDuNCzME7I
193-8 246-3 294-10 352-0 385-8 392-0 395-8 138-7
Scale = 1:50.3



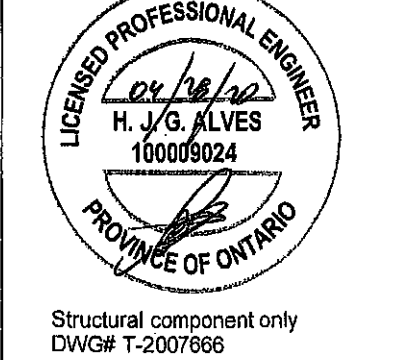
TOTAL WEIGHT = 2 X 155 = 310 lb (M/F)

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

DRY: SEASONED LUMBER.

PLATES (Table 19 in inches)			
JT TYPE	PLATES	W	LEN Y X
B TMV+p	MT20	3.0	4.0
C TMVW+1	MT20	5.0	6.0 2.50 2.25
D TMVW+1	MT20	4.0	4.0 2.00 1.50
E TS-1	MT20	3.0	6.0
F TTW+h	MT20	4.0	4.0 2.00 1.75
G TTW+m	MT20	5.0	6.0 2.00 2.00
H TS-1	MT20	3.0	6.0
I TMVW+1	MT20	4.0	4.0 2.00 1.50
J TMVW+1	MT20	5.0	6.0 2.50 2.25
K TMV+p	MT20	3.0	4.0
M BMVW+1	MT20	4.0	9.0 Edge
N P.S			
N BMVW+1	MT20	4.0	4.0
O BS-1	MT20	3.0	6.0
O BMVW+1	MT20	4.0	9.0
R BS-1	MT20	3.0	6.0
T BMVW+1	MT20	4.0	9.0 Edge

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



Structural component only
DWG# T-2007666

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

BEARINGS			
	FACTORED	MAXIMUM FACTORED	INPUT
	GROSS REACTION	GROSS REACTION	BRG
JT	VERT	HORZ	UPLIFT
T	2063	0	0
M	2063	0	0

UNFACTORED REACTIONS			
1ST CASE	MAX. MIN. COMPONENT REACTIONS		
JT	COMBINED	SNOW	LIVE
T	1457	889	0
M	1457	889	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1:2 LENGTH OF D-Q, I-P, C-T, J-M.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)
A-B	0 28	-91.8	10.00
B-C	0 20	-91.8	10.00
C-D	-2760 0	-91.8	10.00
D-E	-2187 0	-91.8	10.00
E-F	-2187 0	-91.8	10.00
F-G	-1925 0	-91.8	10.00
G-H	-2165 0	-91.8	10.00
H-I	-2165 0	-91.8	10.00
I-J	-2761 0	-91.8	10.00
J-K	0 20	-91.8	10.00
K-L	0 28	-91.8	10.00
L-M	-325 0	0.0	10.00
M-N	-325 0	0.0	10.00
N-O	0 2537	-18.5	10.00
O-P	0 2363	-18.5	10.00
P-Q	0 2363	-18.5	10.00
Q-R	0 1924	-18.5	10.00
R-S	0 2362	-18.5	10.00
S-T	0 2362	-18.5	10.00
T-U	0 2538	-18.5	10.00

WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. UNBRACED LENGTH (FT)
C-S	-110 37	0.04	11
S-D	0 276	0.06	11
D-Q	-892 0	0.31	11
Q-F	0 614	0.14	11
F-G	0 4	0.00	11
G-H	0 609	0.14	11
H-I	-683 0	0.31	11
I-J	0 279	0.06	11
J-K	-110 37	0.04	11
K-L	-3042 0	0.61	11
L-M	-3043 0	0.61	11

CS: TC=0.40:1.00 (J-I), BC=0.58:1.00 (M-N), WB=0.61:1.00 (J-M), SS=0.20:1.00 (G-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1855

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP = 0.89 (F) (INPUT = 0.90)
JSI METAL = 0.83 (O) (INPUT = 1.00)

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. GC

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

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

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

155% OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CS: TC=0.40:1.00 (J-I), BC=0.58:1.00 (M-N), WB=0.61:1.00 (J-M), SS=0.20:1.00 (G-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1855

PLATE PLACEMENT TOL. = 0.250 inches

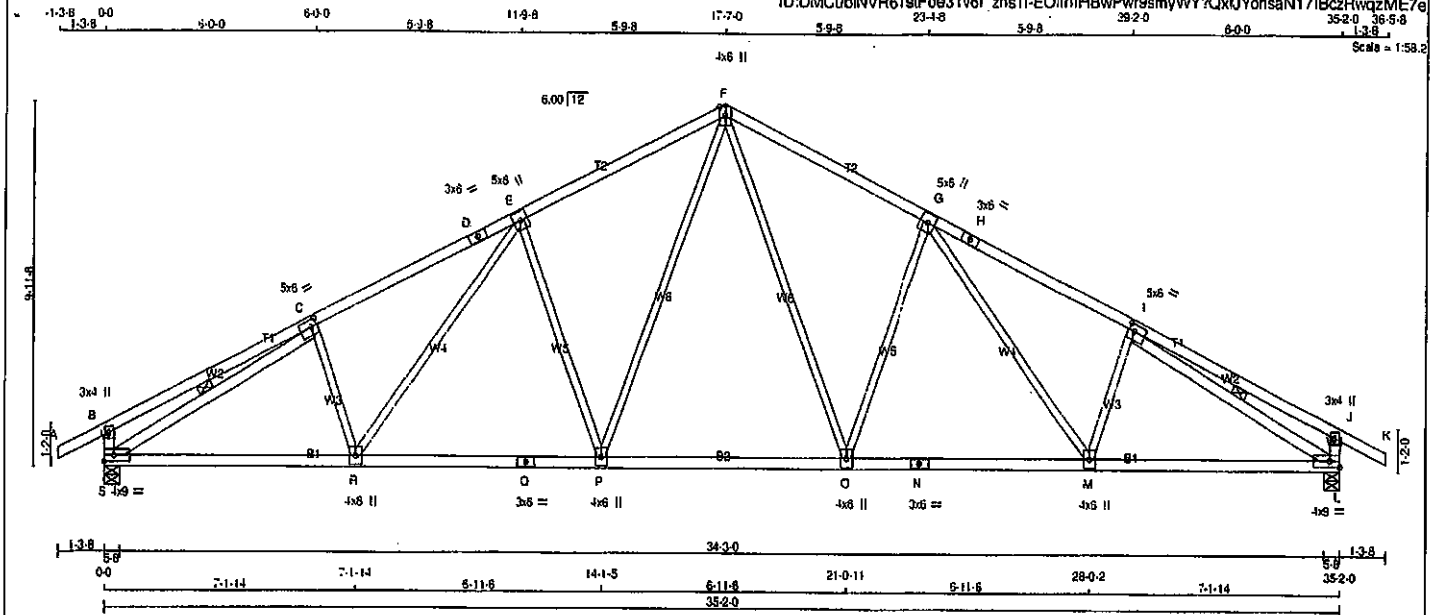
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (F) (INPUT = 0.90)
JSI METAL = 0.83 (O) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	IDRWG NO.
408224	T46	8	1	GREEN PARK HOMES	
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsfFoe3iv8I zns11-EOllnIHBwPwr9smyWY?QxUJYonsaN17IbczRwqzME7e



TOTAL WEIGHT = 8 X 152 = 1216 LB

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESC.
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		
K - B	2x4 DRY	No.2	SPF		
L - J	2x4 DRY	No.2	SPF		
S - Q	2x4 DRY	No.2	SPF		
Q - N	2x4 DRY	No.2	SPF		
N - L	2x4 DRY	No.2	SPF		
ALL WEBS	2x3 DRY	No.2	SPF		
EXCEPT					
S - C	2x4 DRY	No.2	SPF		
I - L	2x4 DRY	No.2	SPF		

DRY: SEASONED LUMBER

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	HORZ	UPLIFT
S	2083	0	2083	0
L	2083	0	2083	0

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
S	1457 989 0 0 0 0 0 0 0 0
L	1457 989 0 0 0 0 0 0 0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS (LC)	MEMB.	FORCE (LBS)	CS (LC)
FR-TO		FROM TO		FR-TO		
A-B	0 28	-91.8 -91.8 0.12 (1)	10.00	F-O	0 868	0.19 (1)
B-C	0 22	-91.8 -91.8 0.40 (1)	10.00	O-G	-726 0	0.72 (1)
C-D	-2808 0	-91.8 -91.8 0.49 (1)	3.75	G-M	0 391	0.09 (1)
D-E	-2808 0	-91.8 -91.8 0.49 (1)	3.75	M-I	-192 18	0.05 (1)
E-F	-2322 0	-91.8 -91.8 0.46 (1)	4.07	P-F	0 886	0.19 (1)
F-G	-2322 0	-91.8 -91.8 0.46 (1)	4.07	E-P	-726 0	0.72 (1)
G-H	-2808 0	-91.8 -91.8 0.49 (1)	3.75	R-E	0 391	0.09 (1)
H-I	-2808 0	-91.8 -91.8 0.49 (1)	3.75	C-R	-192 18	0.05 (1)
I-J	0 22	-91.8 -91.8 0.40 (1)	10.00	S-C	-3064 0	0.72 (1)
J-K	0 28	-91.8 -91.8 0.12 (1)	10.00	I-L	-3064 0	0.72 (1)
S-B	-344 0	0.0 0.0 0.03 (1)	7.81			
L-J	-344 0	0.0 0.0 0.03 (1)	7.81			
S-R	0 2574	-18.5 -18.5 0.53 (1)	10.00			
R-O	0 2291	-18.5 -18.5 0.47 (1)	10.00			
O-P	0 2291	-18.5 -18.5 0.47 (1)	10.00			
P-Q	0 1762	-18.5 -18.5 0.38 (1)	10.00			
Q-N	0 2291	-18.5 -18.5 0.47 (1)	10.00			
N-M	0 2291	-18.5 -18.5 0.47 (1)	10.00			
M-L	0 2574	-18.5 -18.5 0.53 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 26.6 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

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, TPIC 2014

155 % OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CS: TC=0.49/1.00 (C-E:1), BC=0.53/1.00 (L-M:1), WB=0.72/1.00 (E-P:1), SS=0.22/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

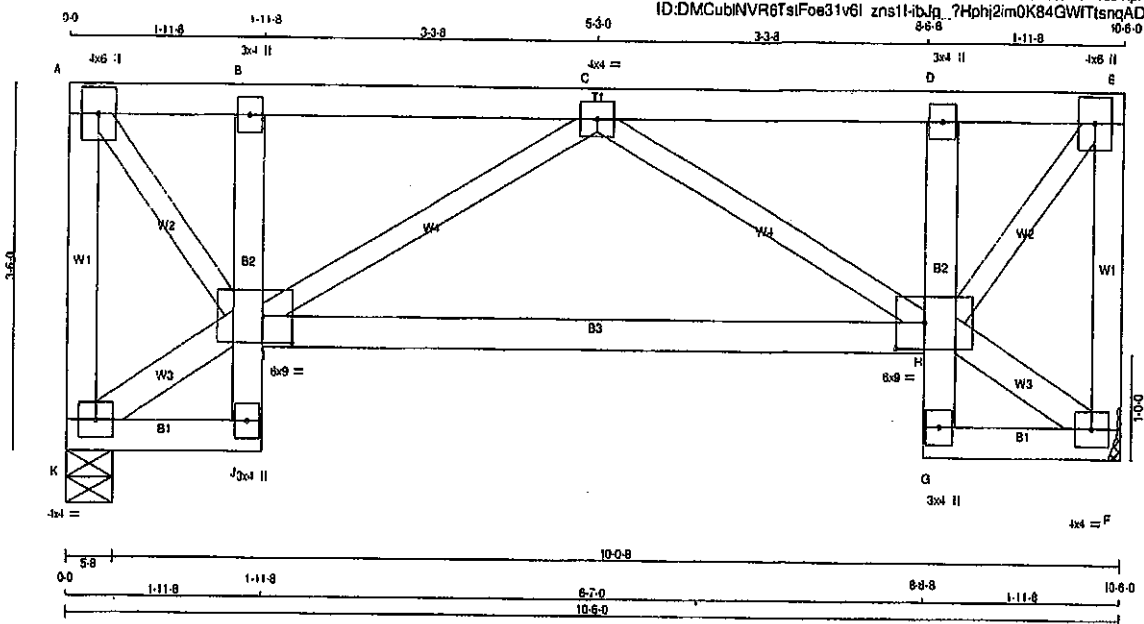
JSI GRIP = 0.87 (C) (INPUT = 0.90)
JSI METAL = 0.77 (I) (INPUT = 1.00)



Structural component only
DWG# T-2007867

JOB NAME 408224	TRUSS NAME T47S	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:DMCubINVR6TsiFos31v6l zns11ibJg_?Hphj2im0K84GWTtsngADw6c_RQGi_SGzME7d



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
K - A	2x4	DRY	No.2
A - E	2x4	DRY	No.2
F - E	2x4	DRY	No.2
K - J	2x4	DRY	No.2
J - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
G - D	2x4	DRY	No.2
G - F	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
K - I	2x4	DRY	No.2
H - F	2x4	DRY	No.2

DRY: SEASONED LUMBER.

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	4.0		
C	TMVW-i	MT20	4.0	4.0		
D	TMV+p	MT20	3.0	4.0		
E	TMVW+p	MT20	4.0	4.0		
F	BMVW-i	MT20	4.0	4.0		
G	BMV+p	MT20	3.0	4.0		
H	BMVW-i	MT20	6.0	9.0	3.00	3.50
I	BMVW-i	MT20	6.0	9.0	3.00	3.50
J	BMV+p	MT20	3.0	4.0		
K	BMVW-i	MT20	4.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.
BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ
K	697	0	697
F	697	0	697

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 1.6.

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED
K	504
F	504

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 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. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
K-A	-667	0	0.0	K-I	-28	0	0.00
A-B	-497	0	0.0	A-I	0	783	0.24
B-C	-508	0	0.0	H-F	-28	0	0.00
C-D	-508	0	0.0	H-E	0	783	0.24
D-E	-497	0	0.0	I-C	-384	0	0.15
E-F	-667	0	0.0	C-H	-384	0	0.15
K-J	0	25	-18.5				
J-I	0	19	0.0				
I-B	-331	0	0.0				
I-H	0	832	-18.5				
G-H	0	19	0.0				
H-D	-331	0	0.0				
G-F	0	25	-18.5				

TOTAL WEIGHT = 2 X 51 = 102 lb (M/F)

(M/R)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/380 (0.35")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
 ALLOWABLE DEFL.(TL) = L/380 (0.35")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.22/1.00 (B-C-1), BC=0.46/1.00 (H-I-4), WB=0.24/1.00 (E-H-1), SS=0.22/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00
 FLAT ROOF FACTOR = 0.75

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354
	1667	786
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

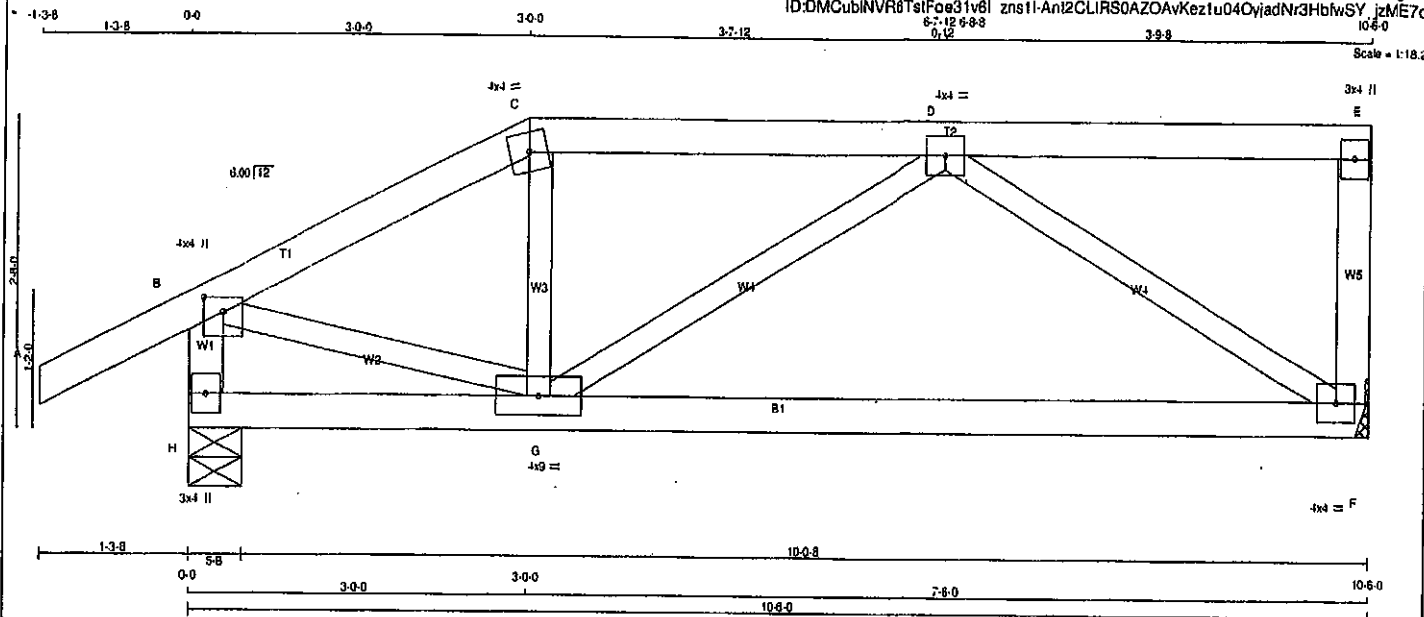
JSI GRIP = 0.77 (H) (INPUT = 0.90)
 JSI METAL = 0.30 (E) (INPUT = 1.00)



Structural component only
 DWG# T-2007668

JOB NAME 408224	TRUSS NAME T48	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:DMCubINVR8TstFoe31v6l zns11-An12CLIRS0AZOAvKeztu04OyadNr3HbWsy jzME7c
 6-7-12 9-8-8 0-12 10-6-0
 Scale = 1:18.2



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)			
JT	TYPE	PLATES	W LEN Y X
B	TMVW+p	MT20	4.0 4.0 1.50 2.00
C	TTW+m	MT20	4.0 4.0
D	TMVW-t	MT20	4.0 4.0
E	TMV+p	MT20	3.0 4.0
F	BMVW1-t	MT20	4.0 4.0
G	BMVWW1-t	MT20	4.0 9.0
H	BMV1+p	MT20	3.0 4.0

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

BEARINGS			
FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT HORZ	DOWN HORZ UPLIFT	IN-SX	IN-SX
F 579 0	579 0 0	MECHANICAL	
H 703 0	703 0 0	5-8	5-8

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

UNFACTORED REACTIONS

1ST LOASE	MAX. MIN. COMPONENT REACTIONS						
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
F 409	269 0	0 0	0 0	0 0	141 0	0 0	
H 495	338 0	0 0	0 0	0 0	157 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				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX	MEMB.	MAX. FACTORED	FACTORED	MAX
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)		FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 28	-91.8 -91.8 0.12 (1)	10.00	C-C	0 61	0.02 (4)	
B-C	-835 0	-91.8 -91.8 0.15 (1)	8.25	D-D	-61 80	0.02 (4)	
C-D	-569 0	-91.8 -91.8 0.21 (1)	8.25	E-E	-731 0	0.23 (1)	
D-E	0 0	-91.8 -91.8 0.20 (1)	10.00	F-F	0 587	0.13 (1)	
E-F	-135 0	0.0 0.0 0.02 (1)	7.81				
F-G	-699 0	0.0 0.0 0.07 (1)	7.81				
H-G	0 0	-18.5 -18.5 0.21 (4)	10.00				
G-F	0 619	-18.5 -18.5 0.25 (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

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

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

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

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 (0.35")
 CALCULATED VERT. DEFL.(LL) = L. 999 (0.01")
 ALLOWABLE DEFL.(TL) = L/360 (0.35")
 CALCULATED VERT. DEFL.(TL) = L. 999 (0.09")

CSI: TC=0.21-1.00 (C-0.1), BC=0.25-1.00 (F-G-4), WB=0.23-1.00 (D-F-1), SS=0.17-1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.68 (B) (INPUT = 0.90)
 JSI METAL= 0.23 (F) (INPUT = 1.00)



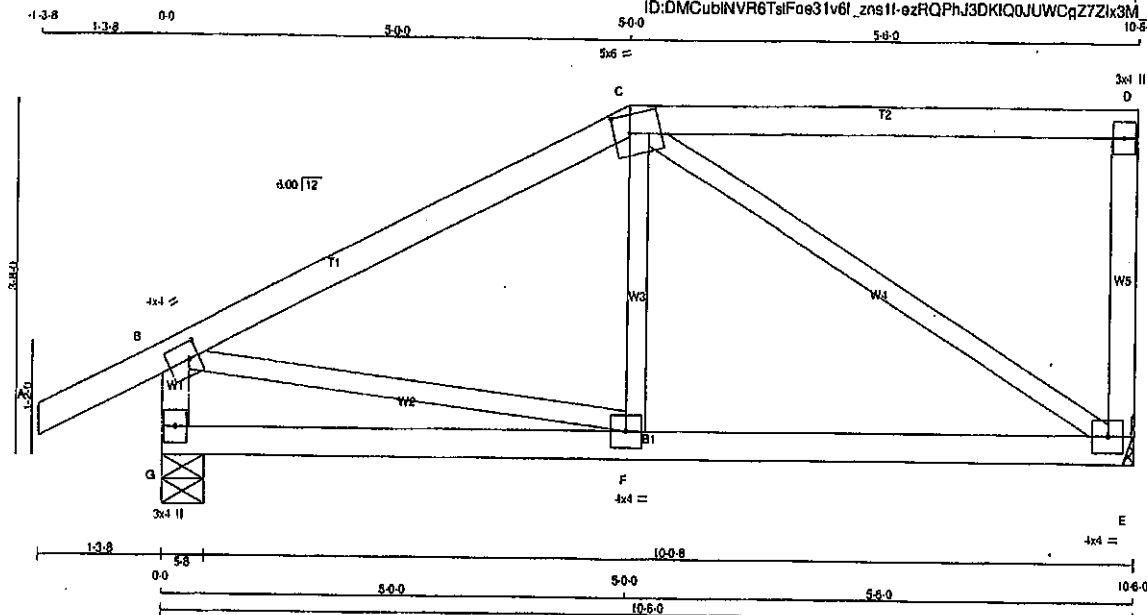
Structural component only
 DWG# T-2007669

JOB NAME 408224	TRUSS NAME T49	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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Scale = 1:22.0

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

ALL WEBS			
2x3	DRY	No.2	SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (tables in inches)			
JT TYPE	PLATES	W	LEN Y X
B TMVW-1	MT20	4.0	4.0 2.00 1.25
C TTWW-m	MT20	5.0	6.0 2.25 2.00
D TMV-p	MT20	3.0	4.0
E BMVW-1	MT20	4.0	4.0
F BMVW-1	MT20	4.0	4.0
G BMV1-p	MT20	3.0	4.0

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

BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT REQD BRG
E	579 0	579 0	0 0
G	703 0	703 0	0 0

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	409	289 0	0 0	0 0	0 0	0 0	141 0	0 0
G	495	338 0	0 0	0 0	0 0	0 0	157 0	0 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)
A-B	0 28	-91.8 -91.8	10.00
B-C	-523 0	-91.8 -91.8	6.25
C-D	0 0	-91.8 -91.8	10.00
E-D	-252 0	0.0 0.0	7.81
G-B	-687 0	0.0 0.0	7.81
G-F	0 0	-18.5 -18.5	10.00
F-E	0 468	-18.5 -18.5	10.00

WEBS

MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)
F-C	0 106	0.04 (4)
C-E	-549 0	0.37 (11)
B-F	0 474	0.11 (11)

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, 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 (0.35")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.35")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.47 1.00 (C-D:1), BC=0.19/1.00 (E-F:4),
WB=0.37 1.00 (C-E:1), SS=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

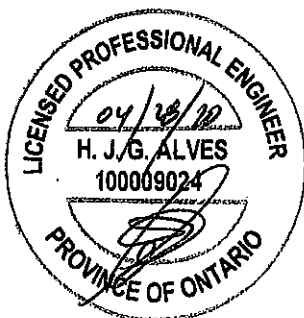
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

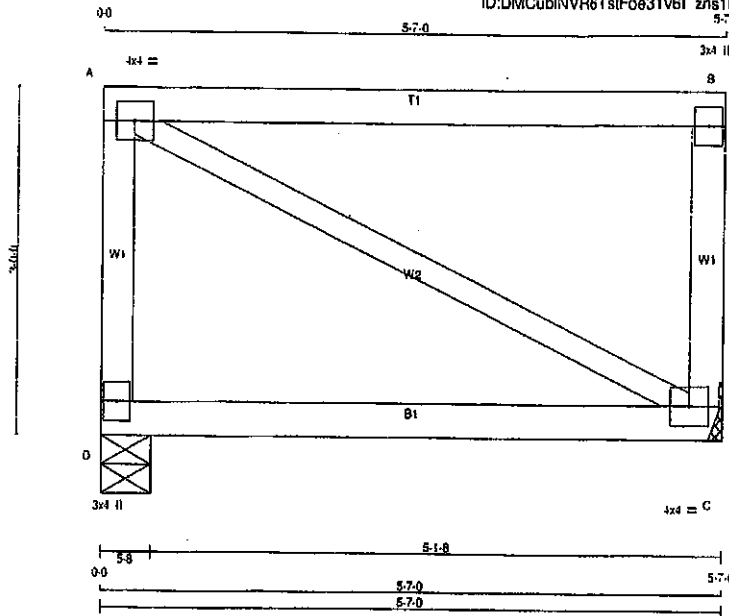
JSI GRIP = 0.85 (B) (INPUT = 0.90)
JSI METAL = 0.28 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007670

JOB NAME 408224	TRUSS NAME T50	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:18.4

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

DESCR
SPF
SPF
SPF
SPF

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
D	371	0	371	0
C	371	0	371	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	268	143.0	0.0	0.0	0.0	0.0	125.0	0.0
C	268	143.0	0.0	0.0	0.0	0.0	125.0	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)	MAX. FACTORED VERT. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
D-A	-319.0	0.0	0.0	0.06 (1)	7.81	A-C	0.0
A-B	0.0	-114.3	-114.3	0.81 (1)	10.00		
C-B	-319.0	0.0	0.0	0.06 (1)	7.81		
D-C	0.0	-18.5	-18.5	0.23 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.04")

CSI: TC=0.81 1.00 (A-B:1), BC=0.23/1.00 (C-D:4),
WB=0.00/1.00 (A-C:1), SS=0.33/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00
FLAT ROOF FACTOR = 0.75

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLF) (IPU)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1567 788 1957 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.25 (A) (INPUT = 0.90)
JSI METAL = 0.07 (A) (INPUT = 1.00)

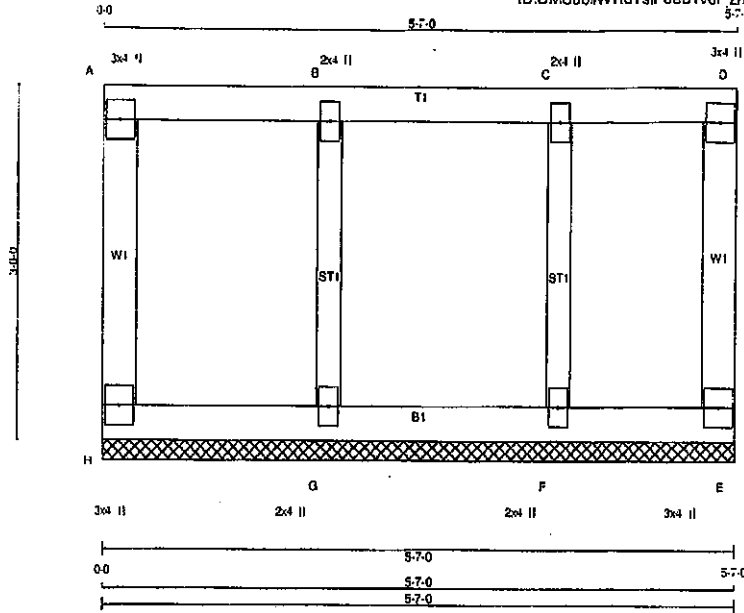


Structural component only
DWG# T-2007671

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408224	G50	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Tue Apr 28 10:19:51 2020 Page 1
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Scale = 1:16.1

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

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (Table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMV+p	MT20	3.0	4.0	
B	TMV+w	MT20	2.0	4.0	
C	TMV+w	MT20	2.0	4.0	
D	TMV+p	MT20	3.0	4.0	
E	BMV1+p	MT20	3.0	4.0	
F	BMV1+w	MT20	2.0	4.0	
G	BMV1+w	MT20	2.0	4.0	
H	BMV1+p	MT20	3.0	4.0	

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH
FR-TO					FR-TO		
H-A	-101 0	0.0	0.0 0.03 (1)	7.81	G-B	-248 0	0.08 (1)
A-B	-8 0	-114.3	-114.3 0.08 (1)	10.00	F-C	-209 0	0.05 (1)
B-C	-8 0	-114.3	-114.3 0.08 (1)	10.00			
C-D	-8 0	-114.3	-114.3 0.08 (1)	10.00			
E-D	-80 0	0.0	0.0 0.03 (1)	7.81			
H-G	0 8	-18.5	-18.5 0.02 (4)	10.00			
G-F	0 8	-18.5	-18.5 0.02 (4)	10.00			
F-E	0 8	-18.5	-18.5 0.02 (4)	10.00			

TOTAL WEIGHT = 22 lb [M](R)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 15.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 46.0 PSF

SPACING = 24.0 IN. GC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.0012

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

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

CSI: TC=0.08/1.00 (A-B:1), BC=0.02/1.00 (G-H:4), WB=0.08/1.00 (B-G:1), SSI=0.13/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00
FLAT ROOF FACTOR = 0.75

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

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

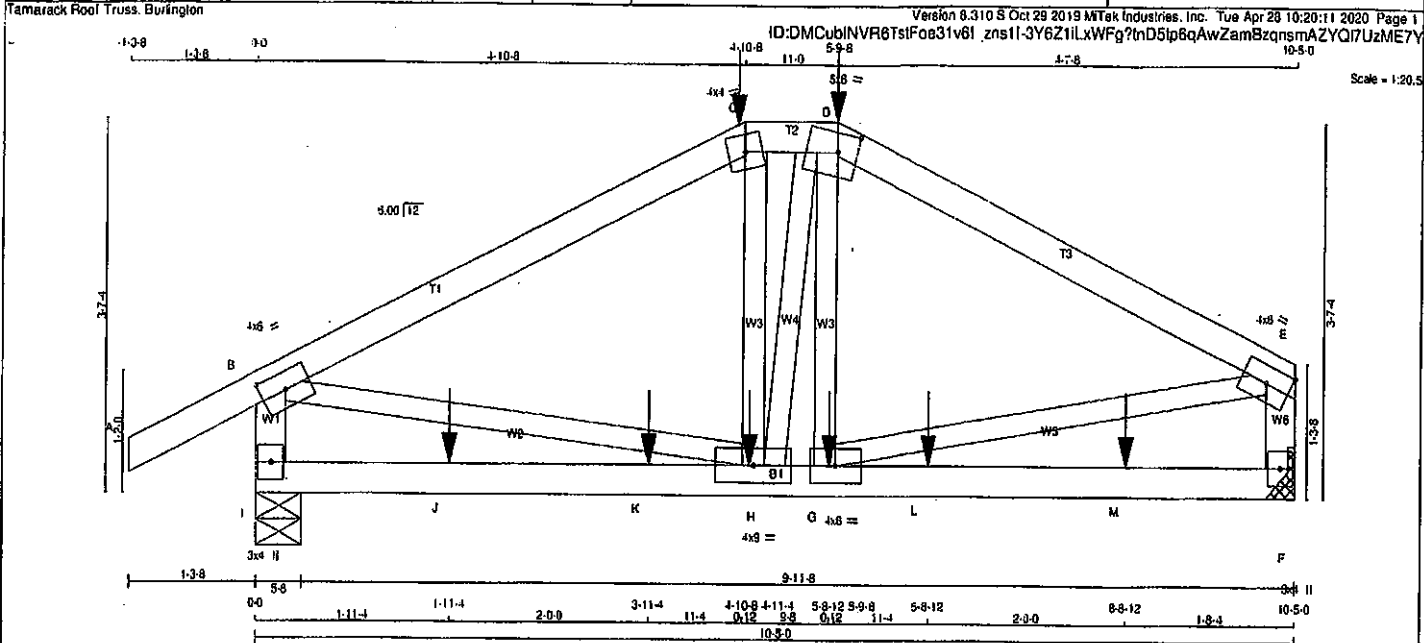
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.17 (G) (INPUT = 0.90)
JSI METAL = 0.07 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007656



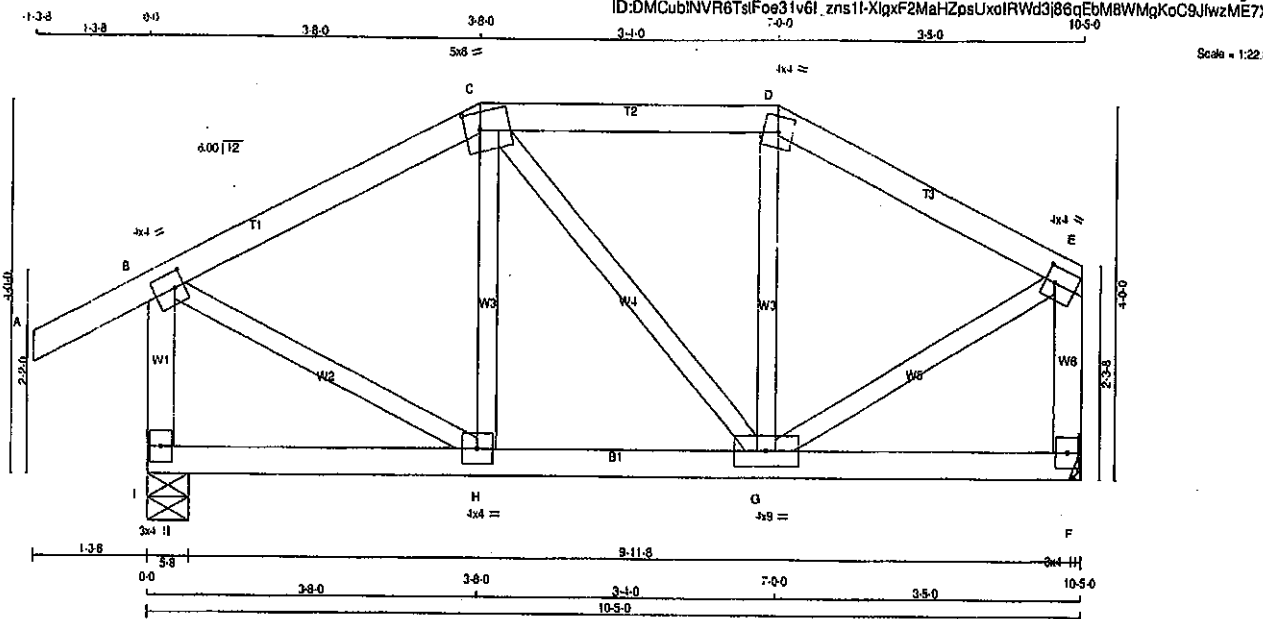
LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
I - J	2x4	DRY	No.2
J - K	2x4	DRY	No.2
K - L	2x4	DRY	No.2
L - M	2x4	DRY	No.2
M - N	2x4	DRY	No.2
N - O	2x4	DRY	No.2
O - P	2x4	DRY	No.2
P - Q	2x4	DRY	No.2
Q - R	2x4	DRY	No.2
R - S	2x4	DRY	No.2
S - T	2x4	DRY	No.2
T - U	2x4	DRY	No.2
U - V	2x4	DRY	No.2
V - W	2x4	DRY	No.2
W - X	2x4	DRY	No.2
X - Y	2x4	DRY	No.2
Y - Z	2x4	DRY	No.2
Z - AA	2x4	DRY	No.2
AA - AB	2x4	DRY	No.2
AB - AC	2x4	DRY	No.2
AC - AD	2x4	DRY	No.2
AD - AE	2x4	DRY	No.2
AE - AF	2x4	DRY	No.2
AF - AG	2x4	DRY	No.2
AG - AH	2x4	DRY	No.2
AH - AI	2x4	DRY	No.2
AI - AJ	2x4	DRY	No.2
AJ - AK	2x4	DRY	No.2
AK - AL	2x4	DRY	No.2
AL - AM	2x4	DRY	No.2
AM - AN	2x4	DRY	No.2
AN - AO	2x4	DRY	No.2
AO - AP	2x4	DRY	No.2
AP - AQ	2x4	DRY	No.2
AQ - AR	2x4	DRY	No.2
AR - AS	2x4	DRY	No.2
AS - AT	2x4	DRY	No.2
AT - AU	2x4	DRY	No.2
AU - AV	2x4	DRY	No.2
AV - AW	2x4	DRY	No.2
AW - AX	2x4	DRY	No.2
AX - AY	2x4	DRY	No.2
AY - AZ	2x4	DRY	No.2
AZ - BA	2x4	DRY	No.2
BA - BB	2x4	DRY	No.2
BB - BC	2x4	DRY	No.2
BC - BD	2x4	DRY	No.2
BD - BE	2x4	DRY	No.2
BE - BF	2x4	DRY	No.2
BF - BG	2x4	DRY	No.2
BG - BH	2x4	DRY	No.2
BH - BI	2x4	DRY	No.2
BI - BJ	2x4	DRY	No.2
BJ - BK	2x4	DRY	No.2
BK - BL	2x4	DRY	No.2
BL - BM	2x4	DRY	No.2
BM - BN	2x4	DRY	No.2
BN - BO	2x4	DRY	No.2
BO - BP	2x4	DRY	No.2
BP - BQ	2x4	DRY	No.2
BQ - BR	2x4	DRY	No.2
BR - BS	2x4	DRY	No.2
BS - BT	2x4	DRY	No.2
BT - BU	2x4	DRY	No.2
BU - BV	2x4	DRY	No.2
BV - BW	2x4	DRY	No.2
BW - BX	2x4	DRY	No.2
BX - BY	2x4	DRY	No.2
BY - BZ	2x4	DRY	No.2
BZ - CA	2x4	DRY	No.2
CA - CB	2x4	DRY	No.2
CB - CC	2x4	DRY	No.2
CC - CD	2x4	DRY	No.2
CD - CE	2x4	DRY	No.2
CE - CF	2x4	DRY	No.2
CF - CG	2x4	DRY	No.2
CG - CH	2x4	DRY	No.2
CH - CI	2x4	DRY	No.2
CI - CJ	2x4	DRY	No.2
CJ - CK	2x4	DRY	No.2
CK - CL	2x4	DRY	No.2
CL - CM	2x4	DRY	No.2
CM - CN	2x4	DRY	No.2
CN - CO	2x4	DRY	No.2
CO - CP	2x4	DRY	No.2
CP - CQ	2x4	DRY	No.2
CQ - CR	2x4	DRY	No.2
CR - CS	2x4	DRY	No.2
CS - CT	2x4	DRY	No.2
CT - CU	2x4	DRY	No.2
CU - CV	2x4	DRY	No.2
CV - CW	2x4	DRY	No.2
CW - CX	2x4	DRY	No.2
CX - CY	2x4	DRY	No.2
CY - CZ	2x4	DRY	No.2
CZ - DA	2x4	DRY	No.2
DA - DB	2x4	DRY	No.2
DB - DC	2x4	DRY	No.2
DC - DD	2x4	DRY	No.2
DD - DE	2x4	DRY	No.2
DE - DF	2x4	DRY	No.2
DF - DG	2x4	DRY	No.2
DG - DH	2x4	DRY	No.2
DH - DI	2x4	DRY	No.2
DI - DJ	2x4	DRY	No.2
DJ - DK	2x4	DRY	No.2
DK - DL	2x4	DRY	No.2
DL - DM	2x4	DRY	No.2
DM - DN	2x4	DRY	No.2
DN - DO	2x4	DRY	No.2
DO - DP	2x4	DRY	No.2
DP - DQ	2x4	DRY	No.2
DQ - DR	2x4	DRY	No.2
DR - DS	2x4	DRY	No.2
DS - DT	2x4	DRY	No.2
DT - DU	2x4	DRY	No.2
DU - DV	2x4	DRY	No.2
DV - DW	2x4	DRY	No.2
DW - DX	2x4	DRY	No.2
DX - DY	2x4	DRY	No.2
DY - DZ	2x4	DRY	No.2
DZ - EA	2x4	DRY	No.2
EA - EB	2x4	DRY	No.2
EB - EC	2x4	DRY	No.2
EC - ED	2x4	DRY	No.2
ED - EE	2x4	DRY	No.2
EE - EF	2x4	DRY	No.2
EF - EG	2x4	DRY	No.2
EG - EH	2x4	DRY	No.2
EH - EI	2x4	DRY	No.2
EI - EJ	2x4	DRY	No.2
EJ - EK	2x4	DRY	No.2
EK - EL	2x4	DRY	No.2
EL - EM	2x4	DRY	No.2
EM - EN	2x4	DRY	No.2
EN - EO	2x4	DRY	No.2
EO - EP	2x4	DRY	No.2
EP - EQ	2x4	DRY	No.2
EQ - ER	2x4	DRY	No.2
ER - ES	2x4	DRY	No.2
ES - ET	2x4	DRY	No.2
ET - EU	2x4	DRY	No.2
EU - EV	2x4	DRY	No.2
EV - EW	2x4	DRY	No.2
EW - EX	2x4	DRY	No.2
EX - EY	2x4	DRY	No.2
EY - EZ	2x4	DRY	No.2
EZ - FA	2x4	DRY	No.2
FA - FB	2x4	DRY	No.2
FB - FC	2x4	DRY	No.2
FC - FD	2x4	DRY	No.2
FD - FE	2x4	DRY	No.2
FE - FG	2x4	DRY	No.2
FG - FH	2x4	DRY	No.2
FH - FI	2x4	DRY	No.2
FI - FJ	2x4	DRY	No.2
FJ - FK	2x4	DRY	No.2
FK - FL	2x4	DRY	No.2
FL - FM	2x4	DRY	No.2
FM - FN	2x4	DRY	No.2
FN - FO	2x4	DRY	No.2
FO - FP	2x4	DRY	No.2
FP - FQ	2x4	DRY	No.2
FQ - FR	2x4	DRY	No.2
FR - FS	2x4	DRY	No.2
FS - FT	2x4	DRY	No.2
FT - FU	2x4	DRY	No.2
FU - FV	2x4	DRY	No.2
FV - FW	2x4	DRY	No.2
FW - FX	2x4	DRY	No.2
FX - FY	2x4	DRY	No.2
FY - FZ	2x4	DRY	No.2
FZ - GA	2x4	DRY	No.2
GA - GB	2x4	DRY	No.2
GB - GC	2x4	DRY	No.2
GC - GD	2x4	DRY	No.2
GD - GE	2x4	DRY	No.2
GE - GF	2x4	DRY	No.2
GF - GH	2x4	DRY	No.2
GH - GI	2x4	DRY	No.2
GI - GJ	2x4	DRY	No.2
GJ - GK	2x4	DRY	No.2
GK - GL	2x4	DRY	No.2
GL - GM	2x4	DRY	No.2
GM - GN	2x4	DRY	No.2
GN - GO	2x4	DRY	No.2
GO - GP	2x4	DRY	No.2
GP - GQ	2x4	DRY	No.2
GQ - GR	2x4	DRY	No.2
GR - GS	2x4	DRY	No.2
GS - GT	2x4	DRY	No.2
GT - GU	2x4	DRY	No.2
GU - GV	2x4	DRY	No.2
GV - GW	2x4	DRY	No.2
GW - GX	2x4	DRY	No.2
GX - GY	2x4	DRY	No.2
GY - GZ	2x4	DRY	No.2
GZ - HA	2x4	DRY	No.2
HA - HB	2x4	DRY	No.2
HB - HC	2x4	DRY	No.2
HC - HD	2x4	DRY	No.2
HD - HE	2x4	DRY	No.2
HE - HF	2x4	DRY	No.2
HF - HG	2x4	DRY	No.2
HG - HH	2x4	DRY	No.2
HH - HI	2x4	DRY	No.2
HI - HJ	2x4	DRY	No.2
HJ - HK	2x4	DRY	No.2
HK - HL	2x4	DRY	No.2
HL - HM	2x4	DRY	No.2
HM - HN	2x4	DRY	No.2
HN - HO	2x4	DRY	No.2
HO - HP	2x4	DRY	No.2
HP - HQ	2x4	DRY	No.2
HQ - HR	2x4	DRY	No.2
HR - HS	2x4	DRY	No.2
HS - HT	2x4	DRY	No.2
HT - HU	2x4	DRY	No.2
HU - HV	2x4	DRY	No.2
HV - HW	2x4	DRY	No.2
HW - HX	2x4	DRY	No.2
HX - HY	2x4	DRY	No.2
HY - HZ	2x4	DRY	No.2
HZ - IA	2x4	DRY	No.2
IA - IB	2x4	DRY	No.2
IB - IC	2x4	DRY	No.2
IC - ID	2x4	DRY	No.2
ID - IE	2x4	DRY	No.2
IE - IF	2x4	DRY	No.2
IF - IG	2x4	DRY	No.2
IG - IH	2x4	DRY	No.2
IH - II	2x4	DRY	No.2
II - IJ	2x4	DRY	No.2
IJ - IK	2x4	DRY	No.2
IK - IL	2x4	DRY	No.2
IL - IM	2x4	DRY	No.2
IM - IN	2x4	DRY	No.2
IN - IO	2x4	DRY	No.2
IO - IP	2x4	DRY	No.2
IP - IQ	2x4	DRY	No.2
IQ - IR	2x4	DRY	No.2
IR - IS	2x4	DRY	No.2
IS - IT	2x4	DRY	No.2
IT - IU	2x4	DRY	No.2
IU - IV	2x4	DRY	No.2
IV - IW	2x4	DRY	No.2
IW - IX	2x4	DRY	No.2
IX - IY	2x4	DRY	No.2
IY - IZ	2x4	DRY	No.2
IZ - JA	2x4	DRY	No.2
JA - JB	2x4	DRY	No.2
JB - JC	2x4	DRY	No.2
JC - JD	2x4	DRY	No.2
JD - JE	2x4	DRY	No.2
JE - JF	2x4	DRY	No.2
JF - JG	2x4	DRY	No.2
JG - JH	2x4	DRY	No.2
JH - JI	2x4	DRY	No.2
JI - JJ	2x4	DRY	No.2
JJ - JK	2x4	DRY	No.2
JK - JL	2x4	DRY	No.2
JL - JM	2x4	DRY	No.2
JM - JN	2x4	DRY	No.2
JN - JO	2x4	DRY	No.2
JO - JP	2x4	DRY	No.2
JP - JQ	2x4	DRY	No.2
JQ - JR	2x4	DRY	No.2
JR - JS	2x4	DRY	No.2
JS - JT	2x4	DRY	No.2
JT - JU	2x4	DRY	No.2
JU - JV	2x4	DRY	No.2
JV - JW	2x4	DRY	No.2
JW - JX	2x4	DRY	No.2
JX - JY	2x4	DRY	No.2
JY - JZ	2x4	DRY	No.2
JZ - KA	2x4	DRY	No.2
KA - KB	2x4	DRY	No.2
KB - KC	2x4	DRY	No.2
KC - KD	2x4	DRY	No.2
KD - KE	2x4	DRY	No.2
KE - KF	2x4	DRY	No.2
KF - KG	2x4	DRY	No.2
KG - KH	2x4	DRY	No.2
KH - KI	2x4	DRY	No.2
KI - KJ	2x4	DRY	No.2
KJ - KK	2x4	DRY	No.2
KK - KL	2x4	DRY	No.2

Tamarack Roof Truss, Burlington

ID:DMCubINVR6TsIFoe31v6I_zns1I-Xlqx2MaHZpsUxolRWd3j86qEbM8WMgKcC9JlwzME7X



TOTAL WEIGHT = 48 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-I	MT20	4.0	4.0	2.00	1.25	
C	TTW-m	MT20	5.0	6.0	2.25	2.00	
D	TTW-m	MT20	4.0	4.0			
E	TMW-I	MT20	4.0	4.0	2.00	1.25	
F	BMV-I	MT20	3.0	4.0			
G	BMW-W-I	MT20	4.0	9.0			
H	BMW-W-I	MT20	4.0	4.0			
I	BMV-I	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
I	699	0	699	0
F	574	0	574	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 1-0.

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	492	338	0	0	0	0	0	156	0
F	406	287	0	0	0	0	0	140	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PL)	FACTORED VERT. LOAD (LC1)	MAX. UNBRACED LENGTH (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
A-B	0	28	-91.8	-91.8	0.12 (1)	10.00	H-C	-118	14
B-C	-423	0	-91.8	-91.8	0.18 (1)	6.25	C-G	-20	0
C-D	-382	0	-91.8	-91.8	0.13 (1)	8.25	G-D	-126	8
D-E	-409	0	-91.8	-91.8	0.14 (1)	8.25	B-H	0	422
I-B	-669	0	0.0	0.0	0.08 (1)	7.81	G-E	0	419
F-E	-546	0	0.0	0.0	0.07 (1)	7.81			
I-H	0	0	-18.5	-18.5	0.05 (4)	10.00			
H-G	0	375	-18.5	-18.5	0.09 (1)	10.00			
G-F	0	0	-18.5	-18.5	0.05 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.18; 1.00 (B-C:1), BC=0.09; 1.00 (G-H:1), WB=0.09; 1.00 (B-H:1), SSI=0.12; 1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

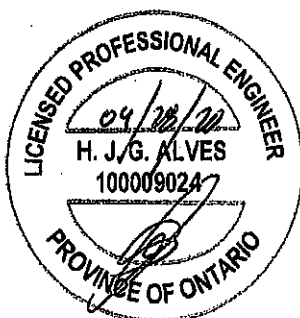
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1887 1656

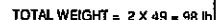
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

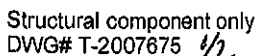
JSI GRIP= 0.85 (B) (INPUT = 0.90)
JSI METAL= 0.21 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007673



JSI GRIP= 0.88 (E) (INPUT = 0.90)
JSI METAL= 0.73 (D) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	T54S	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 M Tek Industries, Inc. Tue Apr 28 10:20:14 2020 Page 2
ID:DMCubINVR6TslFqg31v6l zns1I-T7ohqkQapA3ZkEygYqXoZB2uPsl 43dGWecKozME7V

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	8.0	2.50	3.00
B	TMVW-1	MT20	5.0	6.0		
C	TMV+p	MT20	3.0	4.0		
D	TMVW-1	MT20	5.0	6.0	2.25	2.00
E	TMVW-1	MT20	4.0	6.0	2.00	2.00
F	BMV1+p	MT20	3.0	6.0		
G	BMVWW-1	MT20	6.0	9.0	2.75	4.50
H	BMV+p	MT20	3.0	10.0		
I	BMVWWW-1	MT20	7.0	12.0	4.50	3.75
J	BMVW-1	MT20	5.0	8.0	2.50	3.00
K	BMV1+p	MT20	3.0	6.0	3.50	1.50

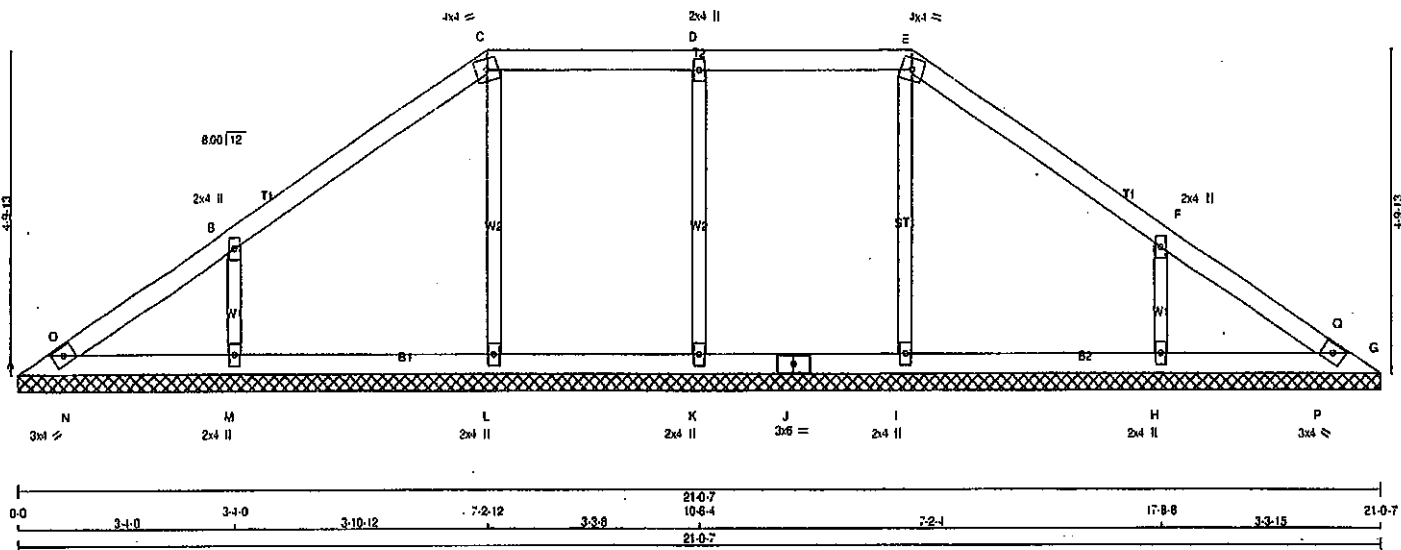


Structural component only
DWG# T-2007675 *ML*

JOB NAME 408222	TRUSS NAME V1	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFos31v6l zns11-0hm5FSlyDNJda79MsYvGLOsMVq3LML6VkvQG0zMFIV 21-0-7

0-0 3-4-0 3-10-12 7-2-12 3-3-8 10-6-4 3-3-8 13-9-12 3-10-12 17-8-8 3-3-15 21-0-7
Scale: 3/8"=1'



TOTAL WEIGHT = 63 lb

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

JT	TYPE	PLATES	W	LEN	Y	X
A	TBM1-h	MT20	3.0	4.0		
B, D, F						
B	TMW+w	MT20	2.0	4.0		
C	TTW-m	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
G	TBM1-h	MT20	3.0	4.0		
H, I, K, L, M						
H	BMW1+w	MT20	2.0	4.0		
J	BS-1	MT20	3.0	6.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
A	128	0	128	0	0	21-0-7 (11-112)20-7			
G	128	0	128	0	0	21-0-7 (11-112)20-7			
I	330	0	330	0	0	21-0-7 (11-112)20-7			
L	330	0	330	0	0	21-0-7 (11-112)20-7			
K	433	0	433	0	0	21-0-7 (11-112)20-7			
H	485	0	485	0	0	21-0-7 (11-112)20-7			
M	485	0	485	0	0	21-0-7 (11-112)20-7			

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	90	61	0	0	0	23	0
G	90	61	0	0	0	23	0
I	235	143	0	0	0	93	0
L	235	143	0	0	0	93	0
K	304	212	0	0	0	92	0
H	342	228	0	0	0	114	0
M	342	228	0	0	0	114	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, G, I, L, K, H, M

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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. (LBS)	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-O	-23	2	-91.8 -91.8 0.04 (1)	I-E	-286	0	0.09 (1)
O-B	0	33	-91.8 -91.8 0.21 (1)	L-C	-286	0	0.09 (1)
B-C	-8	8	-91.8 -91.8 0.20 (1)	K-D	-377	0	0.13 (1)
C-D	0	17	-91.8 -91.8 0.17 (1)	H-F	-393	0	0.06 (1)
D-E	0	17	-91.8 -91.8 0.17 (1)	M-B	-393	0	0.06 (1)
E-F	-8	8	-91.8 -91.8 0.20 (1)	N-O	-39	5	0.00 (1)
F-G	0	33	-91.8 -91.8 0.21 (1)	P-Q	-39	5	0.00 (1)
Q-G	-23	2	-91.8 -91.8 0.04 (1)				

A-N	-9	0	-18.5 -18.5 0.05 (1)	10.00
N-M	-7	7	-18.5 -18.5 0.06 (4)	10.00
M-L	-11	0	-18.5 -18.5 0.06 (4)	8.25
L-K	-17	0	-18.5 -18.5 0.05 (4)	8.25
K-J	-17	0	-18.5 -18.5 0.05 (4)	8.25
J-I	-17	0	-18.5 -18.5 0.05 (4)	8.25
I-H	-11	0	-18.5 -18.5 0.06 (4)	8.25
H-P	-7	7	-18.5 -18.5 0.06 (4)	10.00
P-G	-9	0	-18.5 -18.5 0.05 (1)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2015, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TFC 2011, TFC 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

CS: TC=0.21 (B-O:1), BC=0.06 (L-M:4), WB=0.13 (D-K:1), SSI=0.15 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

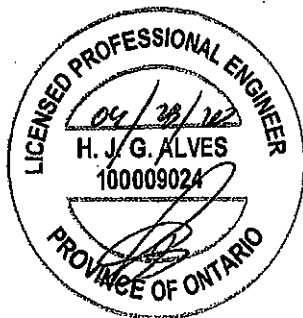
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 798 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (C) INPUT = 0.90
JSI METAL= 0.20 (F) INPUT = 1.00



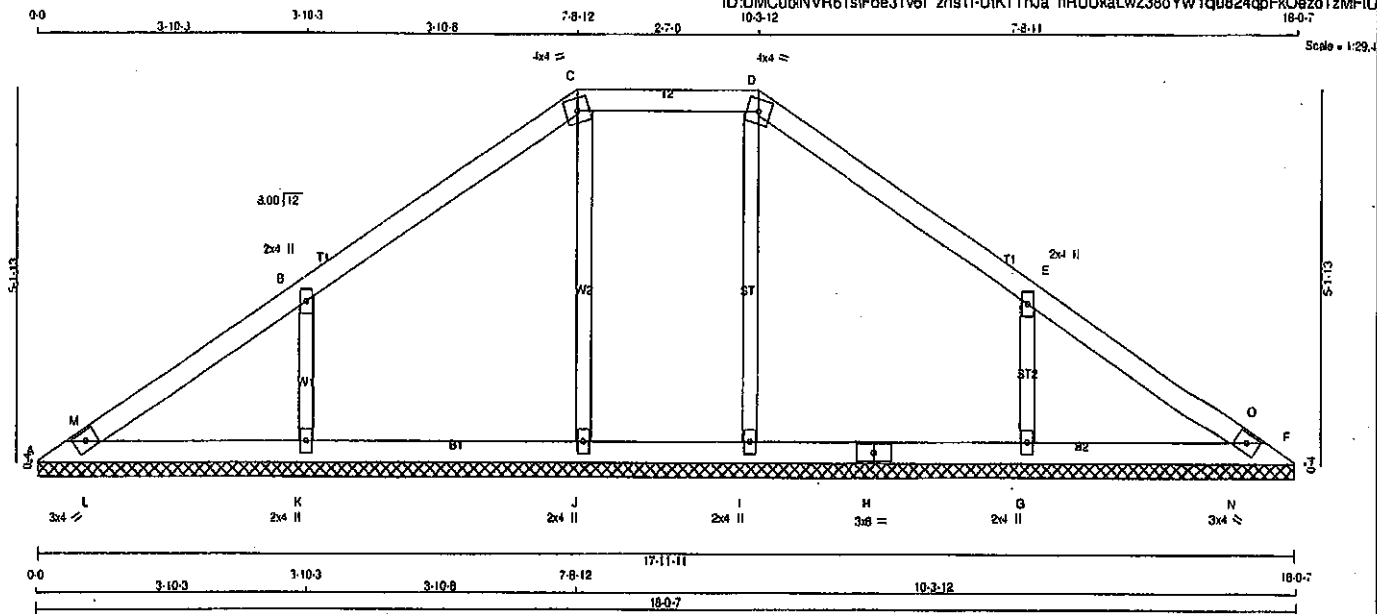
Structural component only
DWG# T-2007616

JOB NAME 408222	TRUSS NAME V2	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:DMCubNVR6tsFoe31v6I znst1-UlKTTnJa hRUUkaLwZ38oYw1qu824qpFkOazoTzMFIL



TOTAL WEIGHT = 54 lb

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

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
A TBM1-h	MT20	3.0	4.0	
B TMW-w	MT20	2.0	4.0	
C TTW-m	MT20	4.0	3.0	
D TTW-m	MT20	4.0	4.0	
E TMW-w	MT20	2.0	4.0	
F TBM1-h	MT20	3.0	4.0	
G, I, J, K				
G BMW1-w	MT20	2.0	4.0	
H BS-1	MT20	3.0	6.0	

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		
A	136	0	136	0	17-11-11 (11-17-12-11)	
F	136	0	136	0	17-11-11 (11-17-12-11)	
I	344	0	344	0	17-11-11 (11-17-12-11)	
G	513	0	513	0	17-11-11 (11-17-12-11)	
J	342	0	342	0	17-11-11 (11-17-12-11)	
K	513	0	513	0	17-11-11 (11-17-12-11)	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	98	85	0	0	0	30	0
F	98	85	0	0	0	30	0
I	244	155	0	0	0	89	0
C	362	240	0	0	0	122	0
J	242	154	0	0	0	88	0
K	362	240	0	0	0	122	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS A, F, I, G, J, K

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (I/C)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (I/C)	
FR-TO		FROM TO	LENGTH FR-TO	FR-TO			
A-M	0 20	-91.8 -91.8 0.04 (1)	10.00	I-D	-292 0	0.11 (1)	
M-B	0 71	-91.8 -91.8 0.22 (1)	10.00	G-E	-408 0	0.07 (1)	
B-C	0 33	-91.8 -91.8 0.22 (1)	10.00	J-C	-291 0	0.11 (1)	
C-D	0 52	-91.8 -91.8 0.11 (1)	10.00	K-B	-408 0	0.07 (1)	
D-E	0 33	-91.8 -91.8 0.22 (1)	10.00	L-M	-71 4	0.00 (1)	
E-O	0 71	-91.8 -91.8 0.22 (1)	10.00	N-O	-69 5	0.00 (1)	
O-F	0 19	-91.8 -91.8 0.04 (1)	10.00				
A-L	-43 0	-18.5 -18.5 0.07 (1)	6.25				
L-K	-30 0	-18.5 -18.5 0.07 (1)	6.25				
K-J	-45 0	-18.5 -18.5 0.07 (4)	6.25				
J-I	-52 0	-18.5 -18.5 0.04 (4)	6.25				
I-H	-45 0	-18.5 -18.5 0.07 (4)	6.25				
H-G	-45 0	-18.5 -18.5 0.07 (4)	6.25				
G-N	-30 0	-18.5 -18.5 0.07 (1)	6.25				
N-F	-43 0	-18.5 -18.5 0.07 (1)	6.25				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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=0.22(1.00 (E-O:1), BC=0.07(1.00 (K-L:1), WB=0.11(1.00 (D-I:1), SSI=0.14(1.00 (O-E:1)

DOCLUMBER=1.00 NAIL=1.00 LB BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

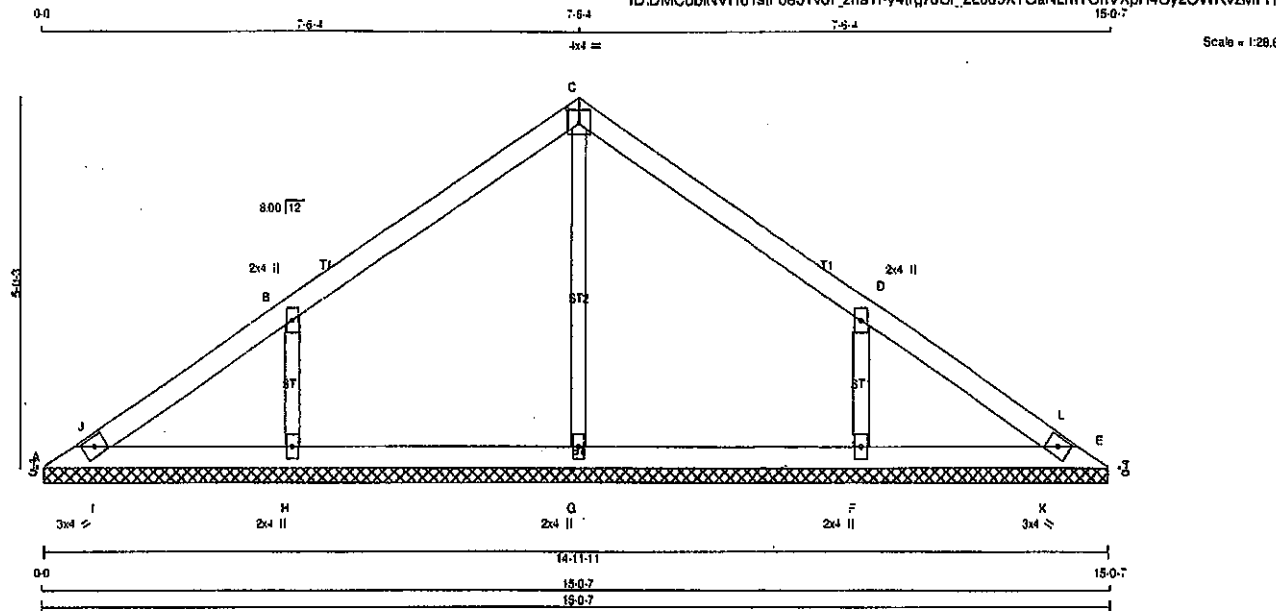
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (C) (INPUT = 0.90)
JSI METAL= 0.21 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007617

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	V3	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 MTek Industries, Inc. Tue Apr 28 09:00:16 2020 Page 1					
ID:DMCubINVR6TstFoe31v6l_zns1l-y4trq7JCI_ZL8u9XTGaNLmTCIIvXpH4Oy2OWKvzMFI					



TOTAL WEIGHT = 43 lb

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
A	134	0	134	0	14-11-11	14-11-11
E	134	0	134	0	14-11-11	14-11-11
G	381	0	381	0	14-11-11	14-11-11
H	501	0	501	0	14-11-11	14-11-11
F	501	0	501	0	14-11-11	14-11-11

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	95	65	0	0	0	30	0
E	95	65	0	0	0	30	0
G	272	162	0	0	0	110	0
H	353	237	0	0	0	116	0
F	353	237	0	0	0	116	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS A, E, G, H, F

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 8.25 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)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 MAX (PLF)				MEMB.	WEBS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 MAX (PLF)			
		FROM	TO	CS1 (LC)	UNBRAC LENGTH			FROM	TO	CS1 (LC)	UNBRAC LENGTH
A-J	-20 4	-91.8	-91.8	0.04 (1)	6.25	G-C	-316 0	-91.8	-91.8	0.04 (1)	6.25
J-B	0 38	-91.8	-91.8	0.22 (1)	10.00	H-B	-408 0	-91.8	-91.8	0.22 (1)	10.00
B-C	-5 12	-91.8	-91.8	0.21 (1)	10.00	F-D	-408 0	-91.8	-91.8	0.21 (1)	10.00
C-D	-5 12	-91.8	-91.8	0.21 (1)	10.00	I-J	-46 6	-91.8	-91.8	0.21 (1)	10.00
D-L	0 38	-91.8	-91.8	0.22 (1)	10.00	K-L	-46 6	-91.8	-91.8	0.22 (1)	10.00
L-E	-20 4	-91.8	-91.8	0.04 (1)	6.25						
A-I	-13 0	-18.5	-18.5	0.06 (1)	6.25						
I-H	-10 3	-18.5	-18.5	0.06 (4)	8.25						
H-G	-13 0	-18.5	-18.5	0.06 (4)	6.25						
G-F	-13 0	-18.5	-18.5	0.06 (4)	6.25						
F-K	-10 3	-18.5	-18.5	0.06 (4)	6.25						
K-E	-13 0	-18.5	-18.5	0.06 (1)	6.25						

DESIGN CRITERIA

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

SPACING = 24.0 IN. 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

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=0.22/1.00 (B-J:1), BC=0.08/1.00 (G-H:4), WB=0.11/1.00 (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

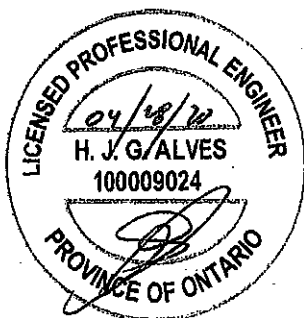
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1656

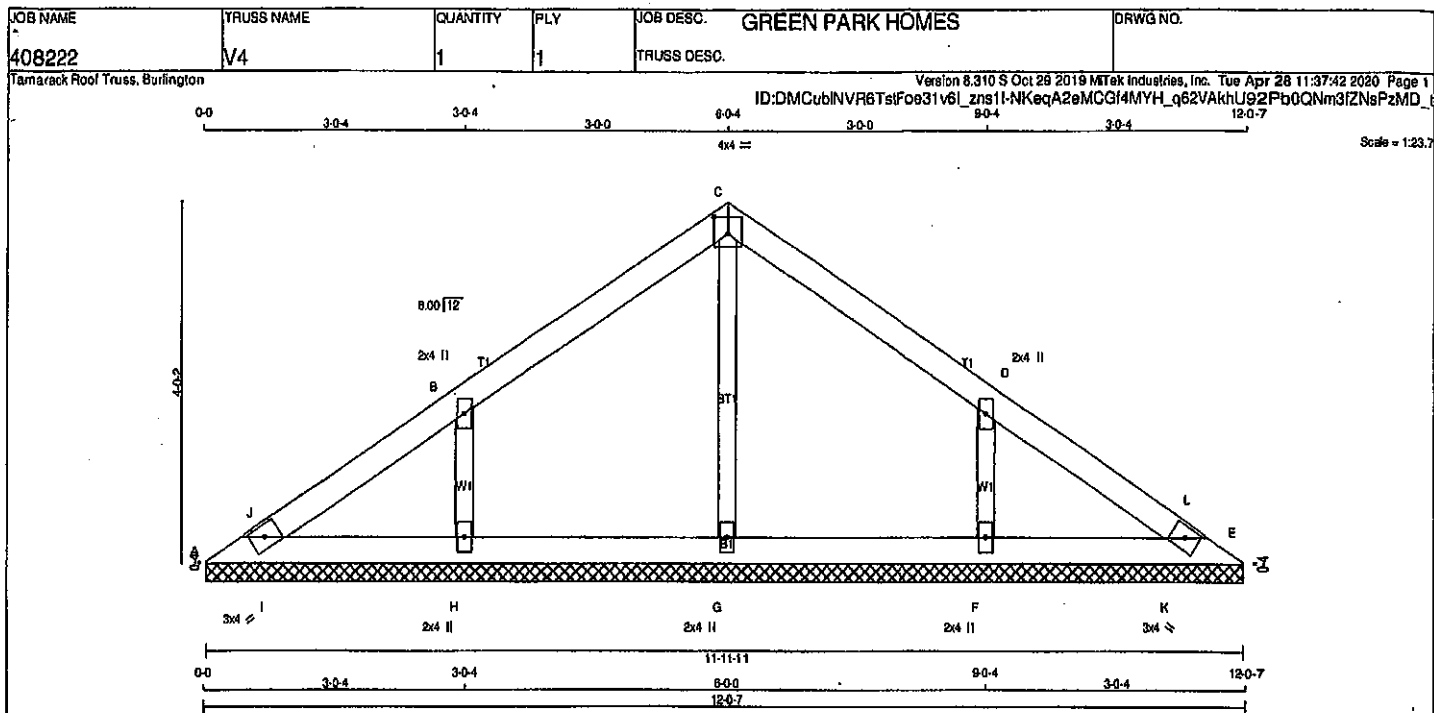
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.28 (D) (INPUT = 0.90)
JSI METAL = 0.21 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007618



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

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

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

JT	VERT	HORZ	MAXIMUM FACTORED GROSS REACTION	DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	RECORD BRG IN-SX
A	117	0	117	0	0	0	11-11-11	11-11-11
E	117	0	117	0	0	0	11-11-11	11-11-11
G	280	0	280	0	0	0	11-11-11	11-11-11
F	398	0	398	0	0	0	11-11-11	11-11-11
H	398	0	398	0	0	0	11-11-11	11-11-11

UNFACTORED REACTIONS

JT	1ST CASE	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	83	56/0	0/0	0/0	0/0	0/0	26/0	0/0
E	83	56/0	0/0	0/0	0/0	0/0	26/0	0/0
G	207	125/0	0/0	0/0	0/0	0/0	82/0	0/0
F	261	188/0	0/0	0/0	0/0	0/0	93/0	0/0
H	261	188/0	0/0	0/0	0/0	0/0	93/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO
A-J	-8/5	-31.8	-31.8	0.03 (1)	10.00	G-C	-248/0	0.06 (1)
J-B	0/38	-31.8	-31.8	0.13 (1)	10.00	F-D	-314/0	0.05 (1)
B-C	0/12	-31.8	-31.8	0.13 (1)	10.00	H-B	-314/0	0.05 (1)
C-D	0/12	-31.8	-31.8	0.13 (1)	10.00	I-J	-47/4	0.00 (1)
D-L	0/36	-31.8	-31.8	0.13 (1)	10.00	K-L	-47/4	0.00 (1)
L-E	-8/5	-31.8	-31.8	0.03 (1)	10.00			
A-I	-13/0	-18.5	-18.5	0.05 (1)	6.25			
I-H	-10/0	-18.5	-18.5	0.05 (1)	10.00			
H-G	-20/0	-18.5	-18.5	0.04 (4)	6.25			
G-F	-20/0	-18.5	-18.5	0.04 (4)	6.25			
F-K	-10/0	-18.5	-18.5	0.05 (1)	10.00			
K-E	-13/0	-18.5	-18.5	0.05 (1)	6.25			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

CSK TC=0.13/1.00 (B-J:1), BC=0.05/1.00 (A-I:1), WB=0.08/1.00 (C-G:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (D) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

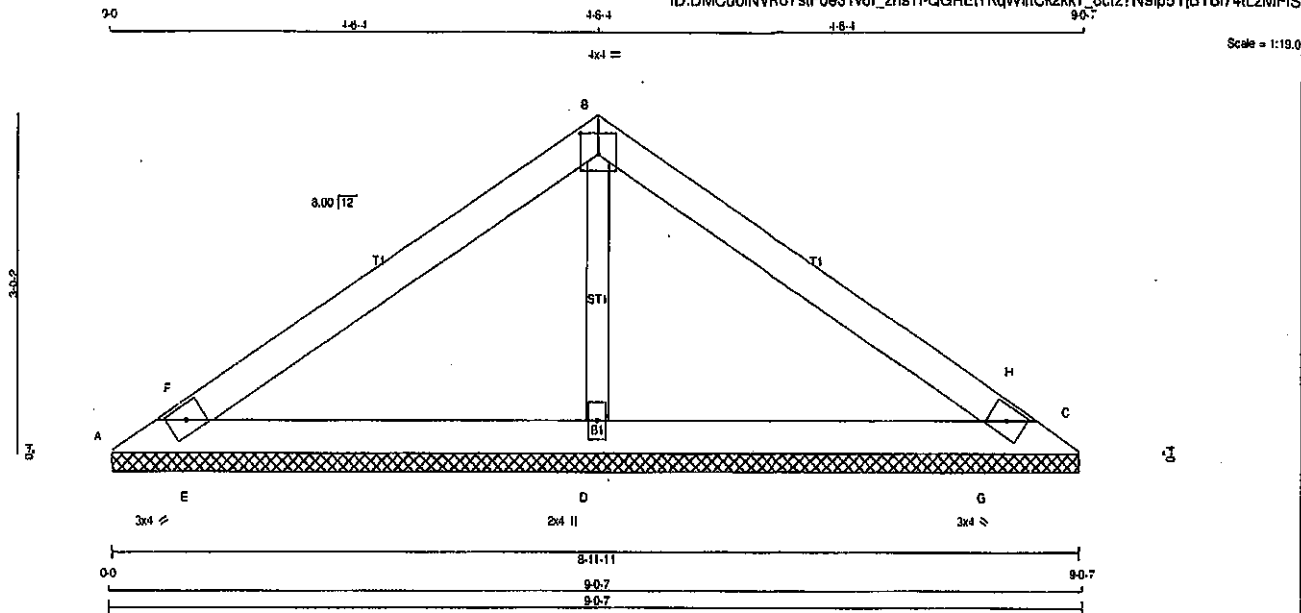
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.22 (D) (INPUT = 0.90)
JSI METAL = 0.16 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007619

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	V5	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 09:00:17 2020 Page 1					
ID:DMCubINVR6TstFoe31v6l_zns11-QGREITKqWhCk2kk1_6ctz7N9ip5YjBY6i74LzMFIS					



TOTAL WEIGHT = 23 lb (M)

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

DESCR.	SPF
SPF	SPF
SPF	SPF
SPF	SPF

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
A	49	0	49	0
C	49	0	49	0
D	893	0	893	0

UNFACTORED REACTIONS

JT	1ST LOSE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	34	22	0	0	0	0	12	0
C	34	22	0	0	0	0	12	0
D	831	415	0	0	0	0	216	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM TO	LENGTH	FR-TO		FROM TO	LENGTH
A-F	0 347	-91.8 -91.8	0.12 (1)	D-B	-898 0	0.12 (1)	
F-B	0 341	-91.8 -91.8	0.23 (1)	E-F	-225 0	0.00 (1)	
B-H	0 341	-91.8 -91.8	0.23 (1)	G-H	-225 0	0.00 (1)	
H-C	0 347	-91.8 -91.8	0.12 (1)				
A-E	-321 0	-18.5 -18.5	0.16 (1)				
E-D	-290 0	-18.5 -18.5	0.17 (1)				
D-G	-290 0	-18.5 -18.5	0.17 (1)				
G-C	-321 0	-18.5 -18.5	0.16 (1)				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.23/1.00 (B-F:1), BC=0.17/1.00 (D-E:1), WB=0.12/1.00 (B-D:1), SSI=0.12/1.00 (A-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

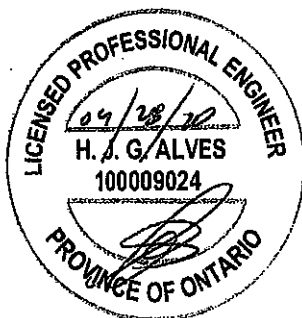
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	818	354	1867 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

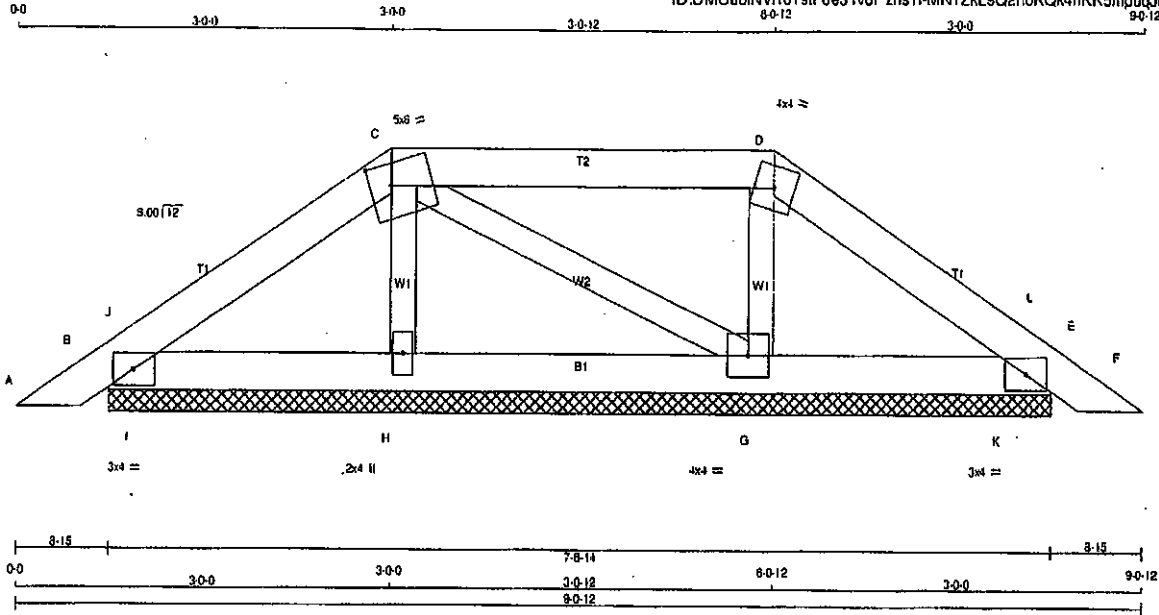
JSI GRIP = 0.59 (B) (INPUT = 0.90)
JSI METAL = 0.20 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007620

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	PB1	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TslFoe31v6l zns11-MN12K19Q2hoKQk4rKK5mpuqJfF XyxLks?nrjzMFh



Scale = 1:16

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

PLATES (Table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-i	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.00	2.00
D	TTWW-m	MT20	4.0	4.0		
E	TMB1-i	MT20	3.0	4.0		
G	BMWW1-i	MT20	4.0	4.0		
H	BMWW1-w	MT20	2.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UP/LIFT
S	221	0	221	0
E	209	0	209	0
H	248	0	248	0
G	280	0	280	0

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	154	113 0	0 0	0 0	0 0	41 0	0 0
E	148	106 0	0 0	0 0	0 0	39 0	0 0
H	176	109 0	0 0	0 0	0 0	87 0	0 0
G	198	127 0	0 0	0 0	0 0	71 0	0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERY. LOAD	LG1 MAX	MEMB.	FORCE
	(LBS)	(PL)	CSI (LC)		(LBS)
FR-TO				FR-TO	
A-B	0	15	-91.8	-91.8	0.03 (1)
B-J	-83	0	-91.8	-91.8	0.01 (1)
J-C	-75	0	-91.8	-91.8	0.05 (1)
C-D	-30	0	-91.8	-91.8	0.15 (1)
D-L	-54	0	-91.8	-91.8	0.05 (1)
L-E	-41	0	-91.8	-91.8	0.01 (1)
E-F	0	15	-91.8	-91.8	0.03 (1)
B-I	0	60	-18.5	-18.5	0.06 (1)
I-H	0	60	-18.5	-18.5	0.06 (1)
H-G	0	48	-18.5	-18.5	0.03 (1)
G-K	0	43	-18.5	-18.5	0.08 (1)
K-E	0	43	-18.5	-18.5	0.06 (1)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
OL = 6.0 PSF
BOT CH. LL = 0.0 PSF
OL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CC

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

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

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

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

CSI: TC=0.15/1.00 (C-D:1), BC=0.08/1.00 (B-E:1), WB=0.03/1.00 (D-G:1), SS=0.11/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSH) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 768 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.18 (B) INPUT=0.90
JSI METAL=0.04 (B) INPUT=1.00



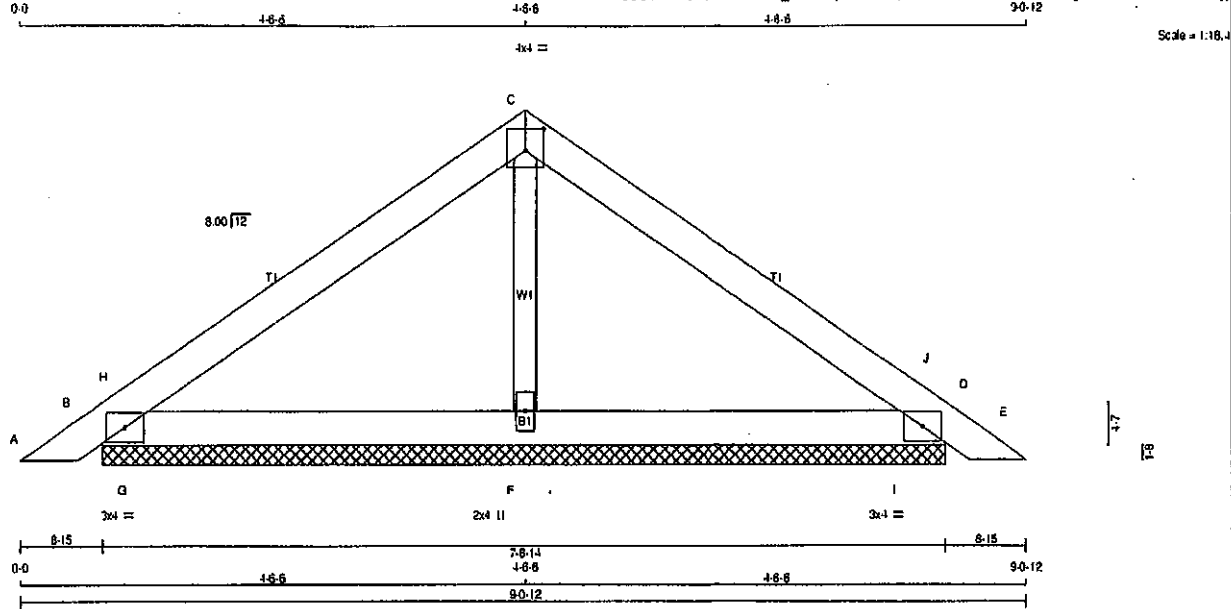
Structural component only
DWG# T-2007600

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408222	PB2	2	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TslFoe31v6l_zns11-qabxxh92p7wB2uf2D2sKJ0Q7w31_GPEUzWkKN9zMFip



TOTAL WEIGHT = 2 X 23 = 46 lb

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE	PLATES			
B	TM81-I	MT20	3.0	4.0
C	TTW-p	MT20	4.0	4.0
D	TM81-I	MT20	3.0	4.0
F	BMW1+w	MT20	2.0	4.0

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	8RG	8RG
JT	VERT	HORZ	DOWN	HORZ
B	318	0	318	0
D	318	0	318	0
F	320	0	320	0

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED						
B	223	159	0	0	0	0	0
D	223	159	0	0	0	0	0
F	229	137	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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)
FR-TO						FR-TO			
A-B	0	15	-91.8	-91.8	0.03 (1)	10.00	F-C	-148	0
B-H	-31	0	-91.8	-91.8	0.07 (1)	8.25	G-H	-349	0
H-C	-135	0	-91.8	-91.8	0.16 (1)	8.25	I-J	-349	0
C-J	-135	0	-91.8	-91.8	0.16 (1)	8.25			
J-D	-31	0	-91.8	-91.8	0.07 (1)	8.25			
D-E	0	15	-91.8	-91.8	0.03 (1)	10.00			
B-G	0	105	-18.5	-18.5	0.15 (1)	10.00			
G-F	0	105	-18.5	-18.5	0.15 (1)	10.00			
F-I	0	105	-18.5	-18.5	0.15 (1)	10.00			
I-D	0	105	-18.5	-18.5	0.15 (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. CG

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

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

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

CSI: TC=0.16 (C-J:1), BC=0.15 (F-I:1), WB=0.03 (C-F:1), SS=0.26 (I:1) (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 = 0.28 (D) (INPUT = 0.90)
JSI METAL = 0.07 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007601

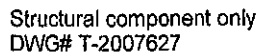
SPF

D	281
E	281

TOTAL LOAD CASES: (4)

F.1	0	8
F.2	0	8

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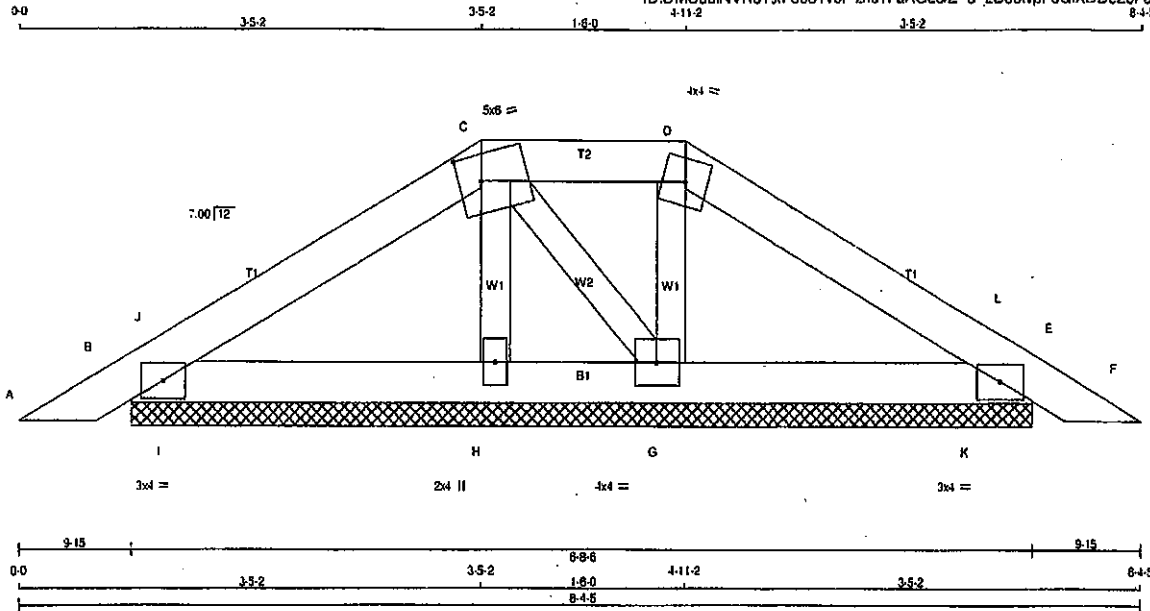


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	PB21	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFos31v6I znsH-aAGLdZ u zB05IvF6QIXDDeZbFaPRp60UDxxzMEMm



Scale = 1:16.2

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

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

BEARINGS							
JT	FACTORED		MAXIMUM FACTORED		INPUT		RECORD
	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX
B	241	0	241	0	0	6-8-6	6-8-6
E	228	0	228	0	0	6-8-6	6-8-6
H	170	0	170	0	0	6-8-6	6-8-6
G	238	0	238	0	0	6-8-6	6-8-6

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

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

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=0.07/1.00 (D-L:1), BC=0.07/1.00 (B-L:1), WB=0.02/1.00 (D-G:1), SS=0.11/1.00 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.19 (B) (INPUT = 0.60)
JSI METAL = 0.05 (D) (INPUT = 1.00)

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-J	MT20	3.0	4.0	
C	TTWW-m	MT20	5.0	6.0	2.25 2.00
D	TTWW-m	MT20	4.0	4.0	
E	TMB1-J	MT20	3.0	4.0	
G	BMWW1-t	MT20	4.0	4.0	
H	BMW1-w	MT20	2.0	4.0	

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SC
B	169	121.0	0.0	0.0	0.0	48.0	0
E	160	114.0	0.0	0.0	0.0	48.0	0
H	122	74.0	0.0	0.0	0.0	48.0	0
G	168	111.0	0.0	0.0	0.0	57.0	0

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

BRACING

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

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

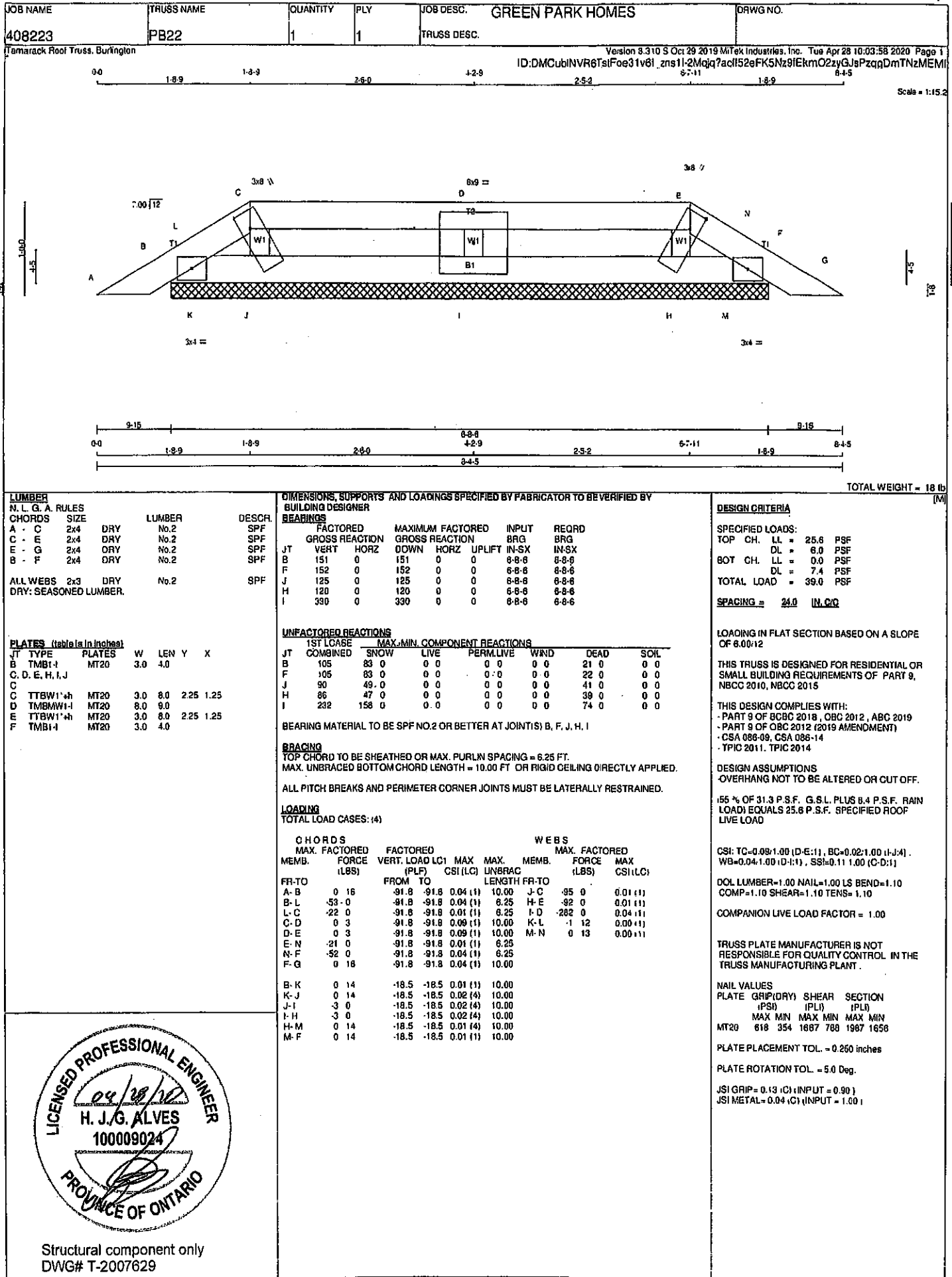
LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 16	-91.8 -91.8	0.04 (1)	10.00	H-C	-107 0	0.02 (1)
B-J	-59 0	-91.8 -91.8	0.01 (1)	6.25	C-G	-36 0	0.01 (1)
J-C	-71 0	-91.8 -91.8	0.07 (1)	6.25	G-D	-147 0	0.02 (1)
C-D	-28 0	-91.8 -91.8	0.04 (1)	6.25	I-J	-139 0	0.09 (1)
D-L	-46 0	-91.8 -91.8	0.07 (1)	6.25	K-L	-141 0	0.09 (1)
L-E	-33 0	-91.8 -91.8	0.01 (1)	6.25			
E-F	0 16	-91.8 -91.8	0.04 (1)	10.00			
B-I	0 59	-18.5 -18.5	0.07 (1)	10.00			
I-H	0 59	-18.5 -18.5	0.07 (1)	10.00			
H-G	0 52	-18.5 -18.5	0.04 (1)	10.00			
G-K	0 38	-18.5 -18.5	0.07 (1)	10.00			
K-E	0 39	-18.5 -18.5	0.07 (1)	10.00			



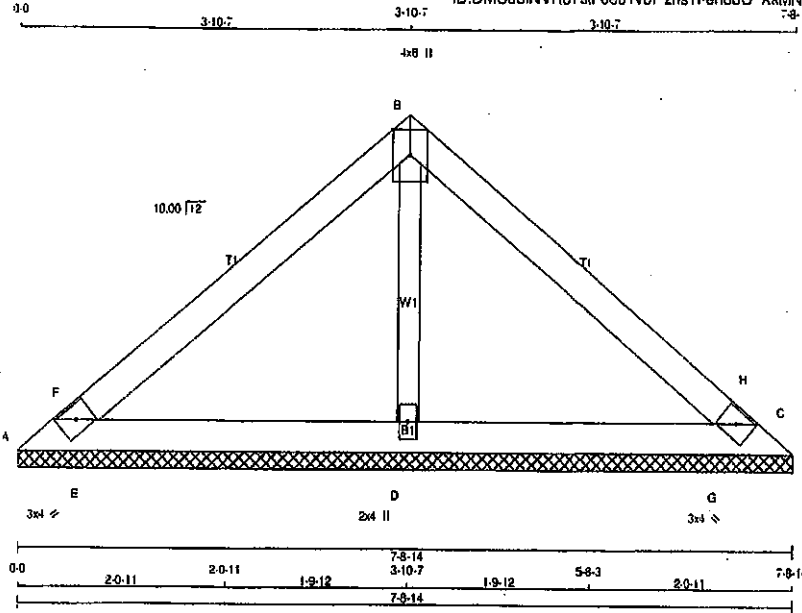
Structural component only
DWG# T-2007628



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408223	P20	17	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6I zns11-en8oC XkMNjUnocWiqbyd68sgmus6UhwBI76I2zMEMo



Scale = 1/20

TOTAL WEIGHT = 17 X 21 = 363 lb

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
A TBM1-h MT20	3.0	4.0		
B TTW+p MT20	4.0	6.0	Edge	
C TBM1-h MT20	3.0	4.0		
D BMW1+w MT20	2.0	4.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	HORZ	DOWN	UPLIFT
			IN-SX	IN-SX
A	60	0	60	0
C	60	0	60	0
D	733	0	733	0

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
A	43	28.0 0.0 0.0 0.0 0.0 14.0 0.0
C	42	28.0 0.0 0.0 0.0 0.0 14.0 0.0
D	518	339.0 0.0 0.0 0.0 0.0 179.0 0.0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS) MAX (PLF) GSI (L/C) UNBRAC LENGTH	MEMB.	FORCE (LBS) MAX (LBS) CSH (L/C)
FR-TO		FROM TO	FR-TO	
A-F	0 227	-91.8 -91.8 0.09 (1) 10.00	D-B	-558 0 0.10 (1)
F-B	0 219	-91.8 -91.8 0.17 (1) 10.00	E-F	-199 0 0.00 (1)
B-H	0 219	-91.8 -91.8 0.17 (1) 10.00	G-H	-199 0 0.00 (1)
H-C	0 228	-91.8 -91.8 0.09 (1) 10.00		
A-E	-207 0	-18.5 -18.5 0.13 (1) 8.25		
E-D	-174 0	-18.5 -18.5 0.13 (1) 8.25		
D-G	-174 0	-18.5 -18.5 0.13 (1) 8.25		
G-C	-207 0	-18.5 -18.5 0.13 (1) 8.25		

DESIGN CRITERIA

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

SPACING = 24.0 IN. 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

15% OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17 (B-F:1), BC=0.13 (1.00 (D-E:1), WB=0.10 (1.00 (B-C:1), SSI=0.11 (1.00 (C-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES	PLATE GRP(OR) SHEAR SECTION
(PSI)	(PLI) (PLI)
MAX MIN MAX MIN MAX MIN	
MT20 618 354 1667 788 1987 1856	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (D) INPUT = 0.90
JSI METAL= 0.12 (D) INPUT = 1.00

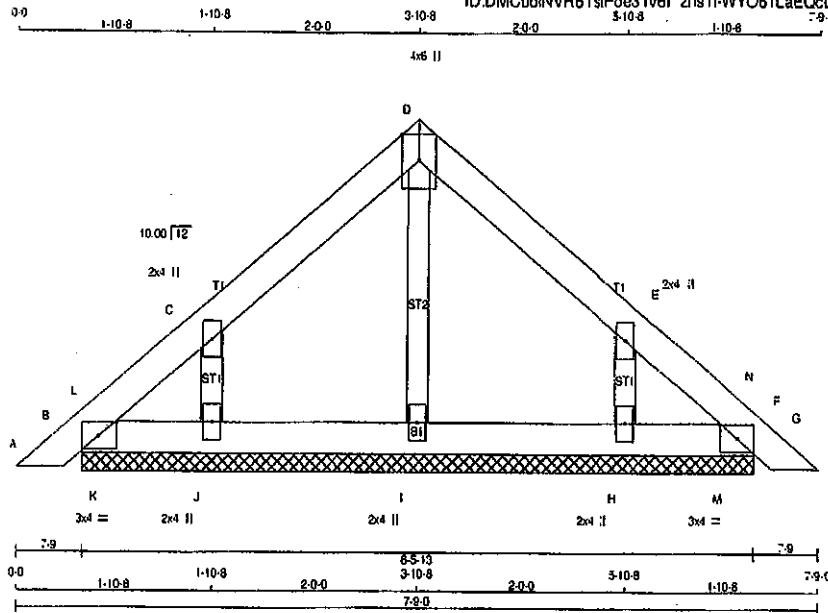


Structural component only
DWG# T-2007626

JOB NAME 408223	TRUSS NAME PG20	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	ORWG NO.
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Tamarack Roof Truss, Burlington

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ID:DMCubiNVR6TslFoe31v8l zns11-WYO61LaEQcDvFPvHxggunylalUNHa2Js63KzJ0pzMEMk



Scale = 1/19.7

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B - TMB1-I	MT20	3.0	4.0	1.50	2.00
C - TMB1-w	MT20	2.0	4.0		
D - TTW1-p	MT20	4.0	8.0	Edge	
E - TMB1-w	MT20	2.0	4.0		
F - TMB1-I	MT20	3.0	4.0	1.50	2.00
H, I, J	MT20	2.0	4.0		

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 14	-91.8 -91.8 0.02 (1)	10.00	I-D	-111 0	0.02 (1)	
B-L	-71 0	-91.8 -91.8 0.05 (1)	6.25	J-C	-185 0	0.03 (1)	
L-C	-30 0	-91.8 -91.8 0.05 (1)	6.25	H-E	-185 0	0.03 (1)	
C-D	-47 0	-91.8 -91.8 0.05 (1)	6.25	K-L	0 9	0.00 (1)	
D-E	-47 0	-91.8 -91.8 0.05 (1)	6.25	M-N	0 9	0.00 (1)	
E-N	-30 0	-91.8 -91.8 0.05 (1)	6.25				
N-F	-71 0	-91.8 -91.8 0.00 (1)	6.25				
F-G	0 14	-91.8 -91.8 0.02 (1)	10.00				
B-K	0 44	-18.5 -18.5 0.01 (1)	10.00				
K-J	0 44	-18.5 -18.5 0.01 (4)	10.00				
J-I	0 27	-18.5 -18.5 0.02 (4)	10.00				
I-H	0 27	-18.5 -18.5 0.02 (4)	10.00				
H-M	0 44	-18.5 -18.5 0.01 (4)	10.00				
M-F	0 44	-18.5 -18.5 0.01 (1)	10.00				

TOTAL WEIGHT = 2 X 22 = 45 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

165 % 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

CS1: TC=0.05/1.00 (C-D:1), BC=0.02/1.00 (H-I:4), WB=0.03/1.00 (C-J:1), SS1=0.07/1.00 (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 (E) (INPUT = 0.90)
JSI METAL = 0.10 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007630

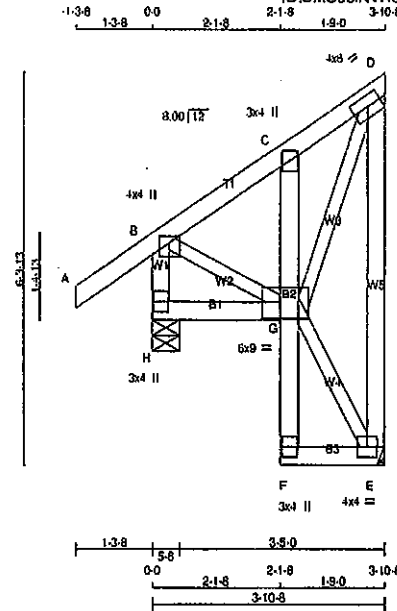
Structural component only
DWG# T-2007598

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408222	J2S	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TsFoe31v8l_zns1l-uBTBW78oHNgUpvI5dpsEbLhFOVoUrBWCfEIHZMFI



Scale = 1/32

TOTAL WEIGHT = 4 X 31 = 125 lb

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

DRY: SEASONED LUMBER.

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TMV+p	MT20	3.0	4.0		
D	TMVW-i	MT20	4.0	8.0	2.00	2.75
E	BMVW-i	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BVMW-i	MT20	6.0	9.0	3.25	3.50
H	BMV-i	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG	
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX				
H 332 0	332 0	5-8	5-8	
E 208 0	208 0	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST LOSE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL	
H 232 168 0	0 0 0 0 68 0 0 0
E 145 95 0	0 0 0 0 50 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 = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	MAX. UNBRAC LENGTH	FR-TO	MAX. CSI (LC)
H-B	-311 0	0.0 0.0	0.03 (1)	7.81	B-G 0 97
A-B	0 35	-91.8 -91.8	0.14 (5)	10.00	E-D -168 0
B-C	-96 0	-91.8 -91.8	0.05 (1)	6.25	G-E -7 0
C-D	-105 0	-91.8 -91.8	0.05 (1)	6.25	G-D 0 204
H-G	0 0	-18.5 -18.5	0.03 (4)	10.00	
F-G	0 15	0.0 0.0	0.01 (1)	10.00	
G-C	-202 0	0.0 0.0	0.01 (1)	7.81	
F-E	0 4	-18.5 -18.5	0.01 (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/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, 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 (0.19")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.00")

CSI: TC=0.14 (0.00 (A-B-5)), BC=0.03 (0.00 (G-H-4)), WB=0.08 (0.00 (D-E-1)), SS=0.09 (0.00 (A-B-5))

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

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 = 0.22 (B) INPUT = 0.90
JSI METAL = 0.07 (C) INPUT = 1.00

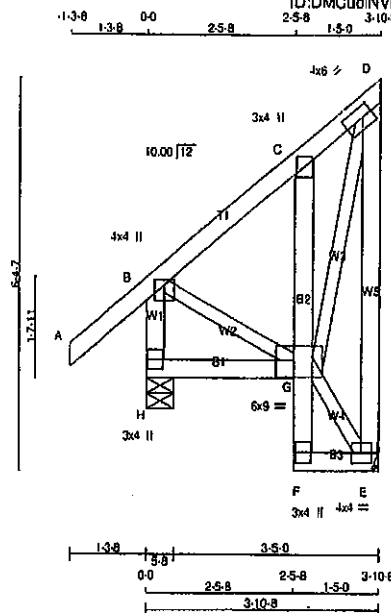


Structural component only
DWG# T-2007599

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408223	J20S	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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Scale = 1/32" = 1'-0"

TOTAL WEIGHT = 2 X 33 = 66 LB

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

DRY: SEASONED LUMBER.

PLATES (table 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	TMVW-i	MT20	4.0	8.0	2.00 2.00
E	BMVW-i	MT20	4.0	4.0	
F	BMV+p	MT20	3.0	4.0	
G	BMVW+i	MT20	6.0	9.0	3.25 3.50
H	BMV+i	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
H	333	0	333	0	0	5-8	5-8		
E	208	0	208	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT REACTIONS						
H	233	166	0	0	0	0	0	67	0
E	145	95	0	0	0	0	0	50	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)
H-B	-309	0	0.0	0.0	0.03	(1)	7.81
A-B	0	41	-91.8	-91.8	0.14	(5)	10.00
B-C	-70	0	-91.8	-91.8	0.07	(1)	6.25
C-D	-92	0	-91.8	-91.8	0.06	(1)	6.25
H-G	0	0	-18.5	-18.5	0.04	(4)	10.00
F-G	0	12	0.0	0.0	0.02	(1)	10.00
G-C	-216	0	0.0	0.0	0.02	(1)	7.81
F-E	0	8	-18.5	-18.5	0.01	(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" N.C.C

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

THIS DESIGN COMPLIES WITH:

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

165% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.14/1.00 (A-B-S), BC=0.04/1.00 (G-H-I), WB=0.08/1.00 (D-E-I), SSI=0.09/1.00 (A-B-S)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

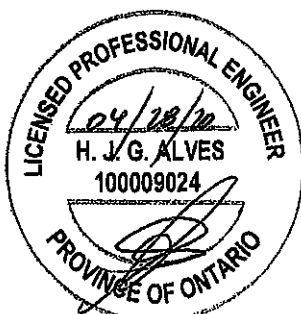
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
			788
			1587
			1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.90)
JSI METAL = 0.08 (C) (INPUT = 1.00)

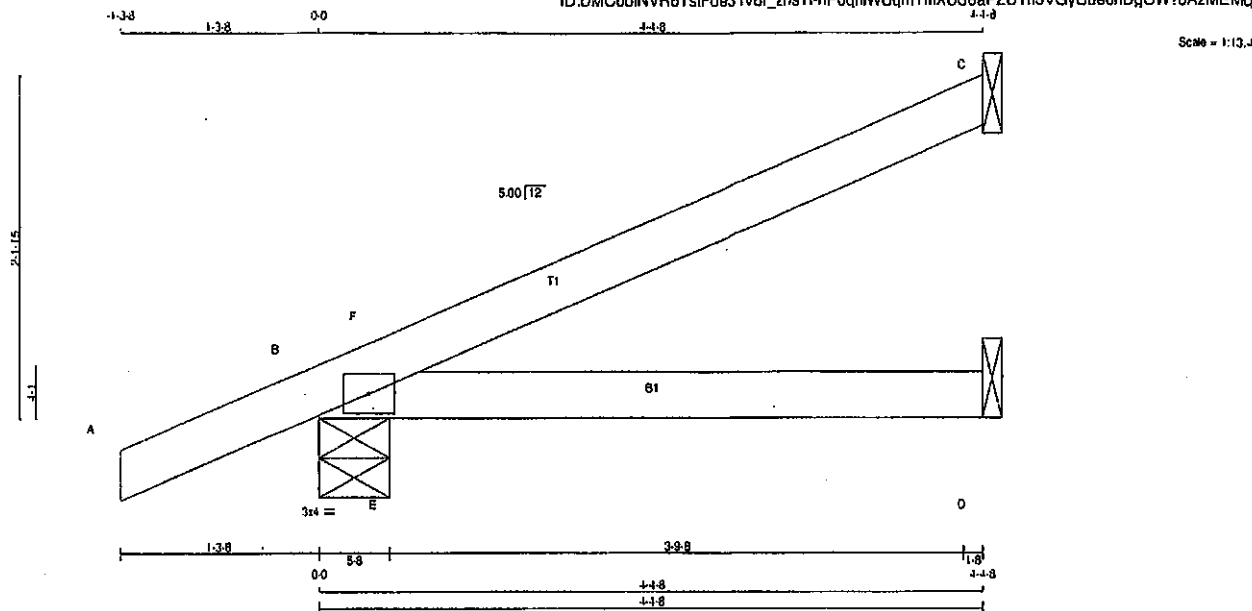


Structural component only
DWG# T-2007623

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	J21	4	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:03:53 2020 Page 1
ID:DMCubINVR6TslFoe31v8l_zns1f-hP0qnlWUqmTmXUS8aPZUYh3VGyGuebnDgOW?oAzMEMo



TOTAL WEIGHT = 4 X 12 = 49 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 is in inches)

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

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

BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
C	175	0	175	0
B	365	0	365	0
D	67	0	67	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	121	94	0	0	0	0	27	0
B	256	161	0	0	0	0	75	0
D	50	16	0	0	0	0	32	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 23	-91.8 -91.8	0.12 (1)	E-F	235 7	0.00 (1)	
B-F	-17 13	-91.8 -91.8	0.04 (4)				
F-C	-1 2	-91.8 -91.8	0.23 (1)				
B-E	0 0	-18.5 -18.5	0.16 (1)				
E-D	0 0	-18.5 -18.5	0.16 (1)				

DESIGN CRITERIA

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

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

ISS 1/2 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 DEFLECT (LL) = L/360 (0.19")
CALCULATED VERT. DEFLECT (LL) = L/999 (0.02")
ALLOWABLE DEFLECT (TL) = L/360 (0.19")
CALCULATED VERT. DEFLECT (TL) = L/999 (0.05")

CS: TO=0.23/1.00 (C-F:1), BC=0.16/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.19/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1937 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.26 (B) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007624

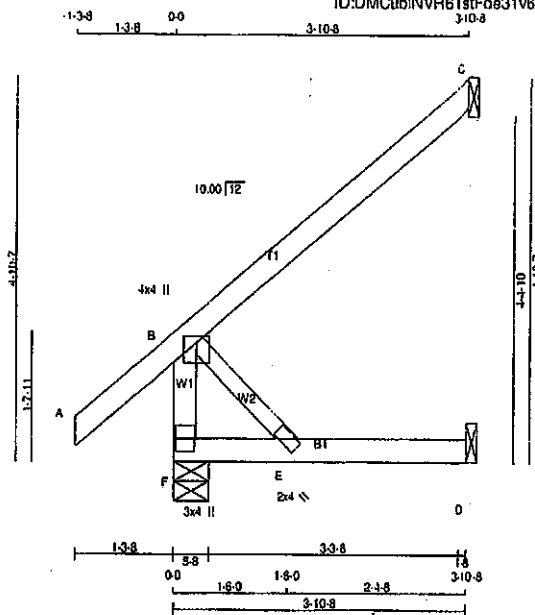
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408223	J22	3	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFos31v6I zns1I-AbaD eX8b3bd9e1K874j4ubgtMZPN21Nv2FYKczMEMp

Scale = 1:27.0



LUMBER	DESCR.
N. L. G. A. RULES	
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.	

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
F	341	0	341	0	0	5-8	5-8	5-8	5-8
C	178	0	178	0	0	1-8	1-8	1-8	1-8
D	36	0	40	0	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL B87781H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	239	170	0	0	0	69	0
C	122	89	0	0	0	23	0
D	29	0	0	0	0	29	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)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		UNBRAC LENGTH	FR-TO		
F-B	-305 0	0.0 0.0	0.03 (1)	7.81	B-E	0 0	0.00 (1)
A-B	0 41	-91.8 -91.8	0.14 (5)	10.00			
B-C	0 0	-91.8 -91.8	0.23 (1)	10.00			
F-E	0 0	-18.5 -18.5	0.08 (4)	10.00			
E-D	0 0	-18.5 -18.5	0.08 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. CD

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19')
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=0.23(1.00 (B-C:1), BC=0.08(1.00 (D-E:4), WB=0.00(1.00 (B-E:1), SS)=0.11(1.00 (B-C: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

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= 0.24 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)

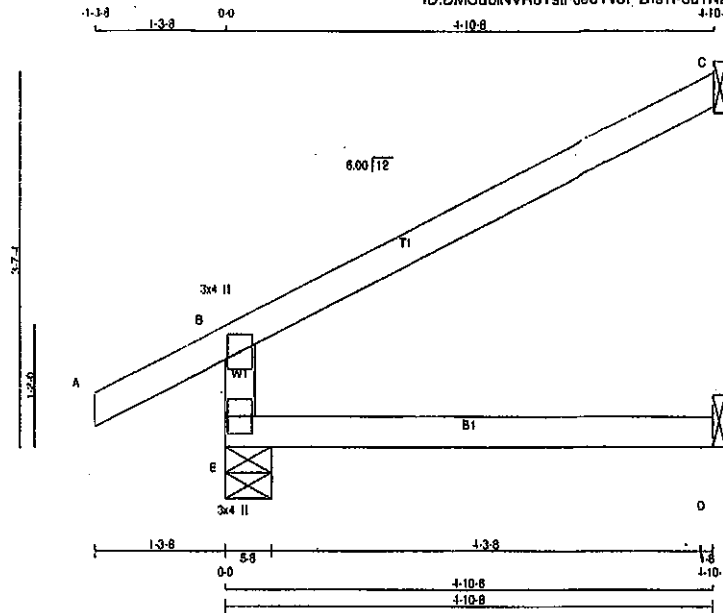


Structural component only
DWG# T-2007625

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	J40	2	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TslFoe31v6l, zns11-6uTN2C71 PH6sGSQJGMvwHM_XXOqKBNCSJFy4zME7r



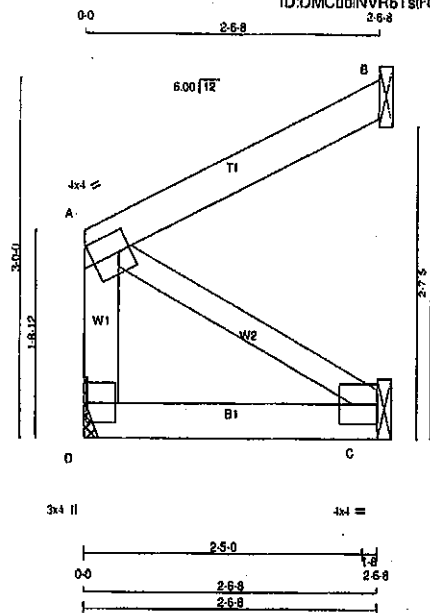
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	J41	5	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TslFoe31v6l zns11-3Hb7Tu8HW1XPKAQqMjQ_LMmLEmlEhglPoM1zzME7p

Scale = 1:17.8



TOTAL WEIGHT = 5 X 10 = 49 lb (M/F)

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	BMV1-t	MT20	4.0	4.0	2.00	Edge
D	BMV1+P	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQ'D BRG
JT	VERT	HORZ	DOWN	HORZ
D	139	0	139	0
B	117	0	117	0
C	23	0	25	0

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

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINTS B & C

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
D	98	65 0	0 0	0 0	33 0	0 0
B	80	65 0	0 0	0 0	15 0	0 0
C	18	0 0	0 0	0 0	18 0	0 0

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 (PL)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO				FR-TO			
D-A	-117 0	0.0	0.0 0.01 (1)	A-C	0 0	0.00 (1)	
A-B	0 0	-91.8	-91.8 0.10 (1)				
D-C	0 0	-18.5	-18.5 0.03 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 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.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/899 (0.00")

CS1: TC=0.10/1.00 (A-B:1), BC=0.03/1.00 (C-D:4),
WB=0.00/1.00 (A-C:1), SS1=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JS1 GRIP = 0.07 (A) (INPUT = 0.90)
JS1 METAL = 0.02 (A) (INPUT = 1.00)



Structural component only
DWG# T-2007658

JOB NAME

408224

TRUSS NAME

J42

QUANTITY

2

PLY

1

JOB DESC.

GREEN PARK HOMES

DRWG NO.

Tamarack Roof Truss, Burlington

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ID:DMCubINVR61stF0e31v6l zns1l-XT8WgE9vHKIGyK?1xSq3XYumIX 1hxqu3YvZPzME7c

Scale = 1:22.9

LUMBER

N. L. G. A. RULES

CHORDS

E - A

2x4

DRY

No.2

SPF

E - B

2x4

DRY

No.2

SPF

E - C

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE

PLATES

W

LEN

Y

X

A

TMVW-1

MT20

4.0

4.0

2.00

1.25

D

BMVW-w

MT20

2.0

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

RECORD

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

BRG

BRG

IN-SX

IN-SX

E

301

0

301

0

0

MECHANICAL

B

250

0

250

0

0

1-8

1-8

C

50

0

57

0

0

1-8

1-8

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

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

UNFACTORED REACTIONS

1ST LOASE

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

E

213

140.0

0.0

0.0

0.0

73.0

0.0

B

172

140.0

0.0

0.0

0.0

33.0

0.0

C

40

0.0

0.0

0.0

0.0

40.0

0.0

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD LG1

MAX

MAX.

MEMB.

MAX. FACTORED

WEBS

MAX. FACTORED

MEMB.

MAX. FACTORED

FR-TO

E-A

250

0

0.0

0.0

0.03 (1)

7.81

A-D

0

0

0.00 (1)

A-B

0

0

-91.8

-91.8

0.46 (1)

10.00

E-D

0

0

-18.5

-18.5

0.13 (4)

10.00

D-C

0

0

-18.5

-18.5

0.16 (4)

10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

PART 9 OF CBC 2010, OBC 2012, ABC 2019

PART 9 OF OBC 2012 (2019 AMENDMENT)

CSA 088-09, 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/999 (0.00")

ALLOWABLE DEFL.(TL) = L/360 (0.19")

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

CSI: TC=0.46 (1.00 (A-B:1) , BC=0.18 (1.00 (C-D:4) , WB=0.00 (1.00 (A-D:1) , SS=0.17 (1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 = 0.15 (A) (INPUT = 0.90)

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

LICENSED PROFESSIONAL ENGINEER

04/28/20

H. J. G. ALVES

100009024

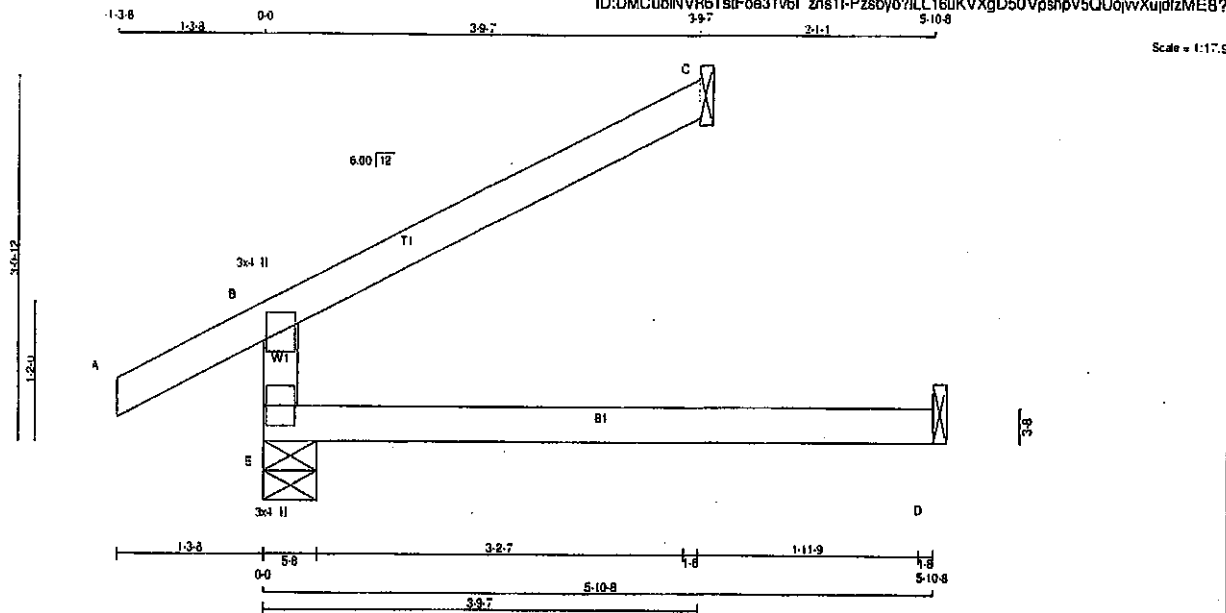
PROVINCE OF ONTARIO

Structural component only

DRWG# T-2007659

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C40	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Tue Apr 28 10:19:42 2020 Page 1
ID:DMCubINVR6TstFoe31v6l zns1I-Pzsybo?ILL16uKVXgD50VpshpV5QUojwXujdzME8?



TOTAL WEIGHT = 2 X 14 = 28 lb

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
E	BMV1+p	MT20	3.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
E	405	0	405	0	0	5-8	5-8	5-8	5-8
C	130	0	130	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 MTEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		MAX. MIN. COMPONENT REACTIONS	
JT	1ST LOOSE	SNOW	LIVE
E	286	190	0
C	90	73	0
D	38	0	0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE	VERT.	LC1	MEMB.	FORCE
FR-TO	(LBS)	FROM	TO	FR-TO	(LBS)
E-B	-342	0	0.0	0.0	0.13 (4)
A-B	0	28	-91.8	-91.8	0.12 (1)
B-C	-19	0	-91.8	-91.8	0.22 (1)
E-D	0	0	-18.5	-18.5	0.13 (4)

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. OC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 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 25.8 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=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:1), WB=0.00/1.00 (A-B:0), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

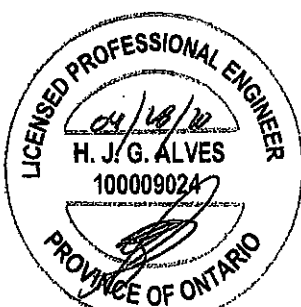
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSF) (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 (E); INPUT = 0.90;
JSI METAL= 0.09 (B); INPUT = 1.00;

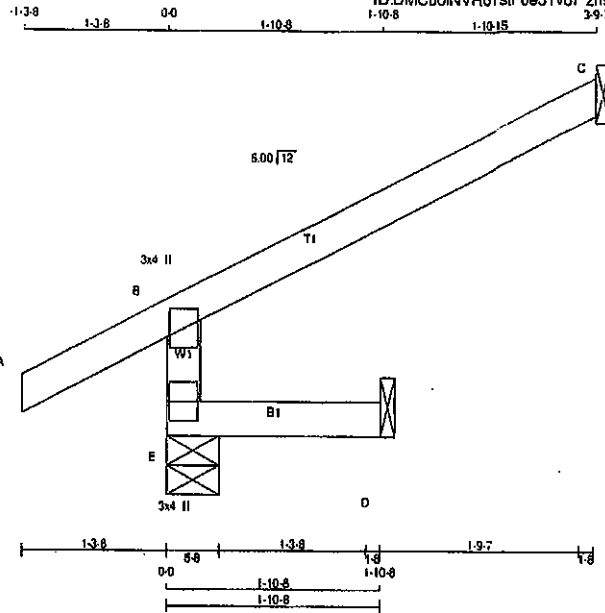


Structural component only
DWG# T-2007648

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C42	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TsIFoe31v6I zns11-pYYkaptteeGPhInE6LLaj7RUC2jwh9SMbV7NC zME7y



Scale = 1/16" = 1'-0"

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

DRY: SEASONED LUMBER.

PLATES (table in inches)			
JT TYPE	PLATES	W	LEN Y X
B	TMV-p	MT20	3.0 4.0
E	BMV1+p	MT20	3.0 4.0

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

BEARINGS			
	FACTORED	MAXIMUM FACTORED	INPUT
	GROSS REACTION	GROSS REACTION	BRG
JT	VERT	HORZ	UPLIFT
E	361	0	5-8
C	130	0	1-8
D	18	0	1-8

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

UNFACTORED REACTIONS			
JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	
E	250	190 0 0 0 0 0 0 0 0 0 0	60 0 0 0
C	90	73 0 0 0 0 0 0 0 0 0 0	17 0 0 0
D	12	0 0 0 0 0 0 0 0 0 0 0	12 0 0 0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
E-B	-342 0	0.0 0.0 0.01 (4)	7.81
A-B	0 28	-91.8 -91.8 0.13 (5)	10.00
B-C	-19 0	-91.8 -91.8 0.22 (1)	6.25
E-D	0 0	-18.5 -18.5 0.02 (4)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. OC

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

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

CSI: TC=0.22(1.00) (B-C:1), BC=0.02(1.00) (D-E:4), WB=0.00(1.00) (A-B:0), SS=0.15(1.00) (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1887 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



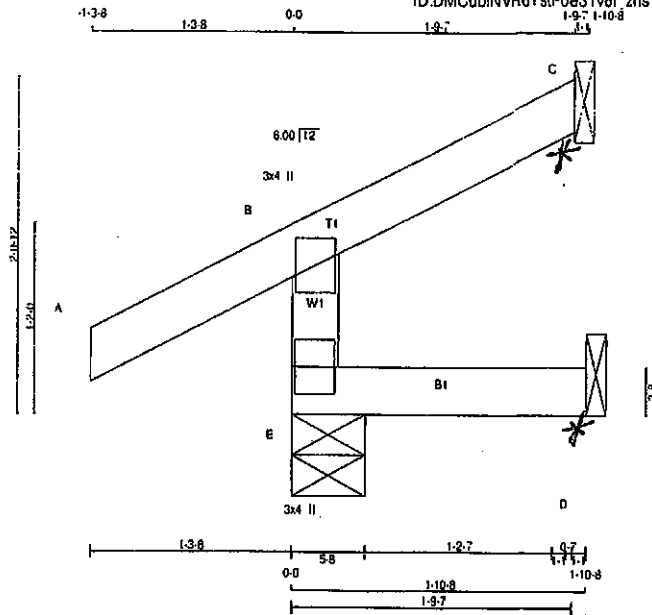
Structural component only
DWG# T-2007650

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C43	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6I_zns11-1k68o92GPaxYNxplv39yfi10Q6VqQcVq9sxtRzME7x

Scale = 1/10, 1



TOTAL WEIGHT = 3 X 7 = 21 lb

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

DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
VERT	HORZ	DOWN	HORZ	UPLIFT
E	271	0	271	0
C	45	0	45	0
D	8	0	17	0

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

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	188	141	0	0.0	0.0	0.0	47	0
C	31	24	-18	0.0	0.0	0.0	7	0
D	7	0	-8	0.0	0.0	0.0	12	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LG1	MAX. MEMB.	FORCE
(LBS)	(PLF)	CSI (LC)	UNBRAC	CSI (LC)
FR-TO	FROM	TO	LENGTH FR-TO	
E-B	-244	0	0.0	0.0
A-B	0	28	-91.8	-91.8
B-C	-17	0	-91.8	-91.8
E-D	0	0	-18.5	-18.5

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5).
WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

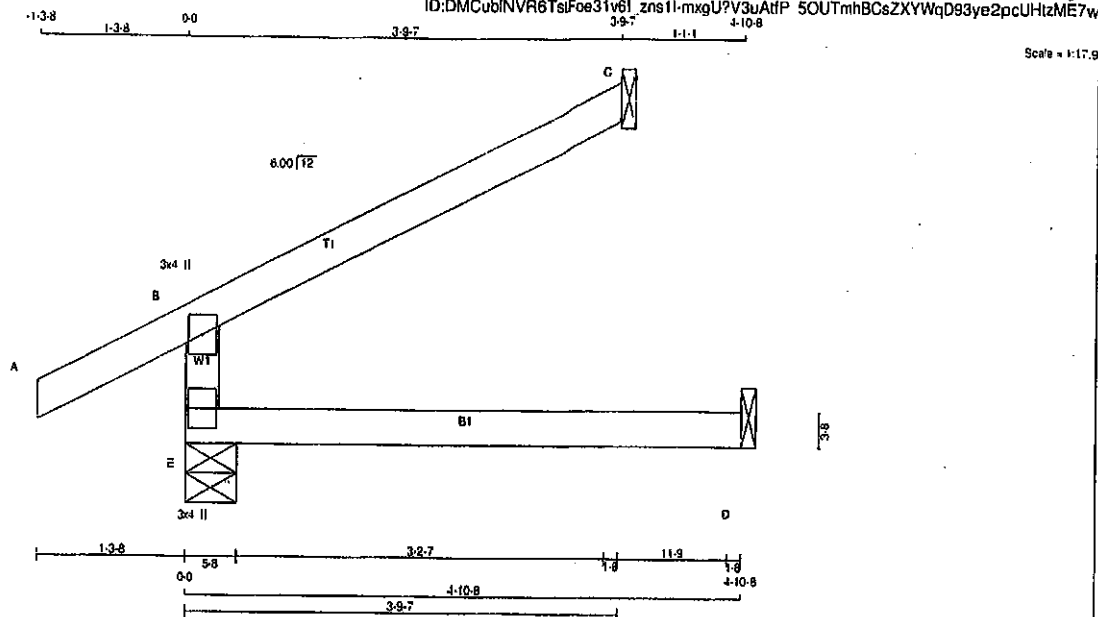
JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007651

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C44	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:DMCubINVR6TsFoe31v61_zns1l-mxgU?V3uAtP 5OUTmhBCsZXYWqD93ye2pcUHzME7w



TOTAL WEIGHT = 2 X 13 = 26 lb (M)

LUMBER		
N. L. G. A. RULES	SIZE	LUMBER
CHORDS	2x4	DRY
E - B	2x4	DRY
A - C	2x4	DRY
E - D	2x4	DRY

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
E	394	0	394	0
C	130	0	130	0
D	38	0	42	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	277	190	0	0	0	87	0
C	90	73	0	0	0	17	0
D	30	0	0	0	0	30	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)
E-B	-342	0	0.0	E-B	7.81
A-B	0	28	-91.8	A-B	10.00
B-C	-19	0	-91.8	B-C	6.25
E-D	0	0	-18.5	E-D	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- 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 (0.02")

CSI: TC=0.22(1.00 (B-C:1), BC=0.09(1.00 (D-E:4), WB=0.00(1.00 (na:0), SSI=0.15(1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) INPUT = 0.90
JSI METAL = 0.09 (B) INPUT = 1.00

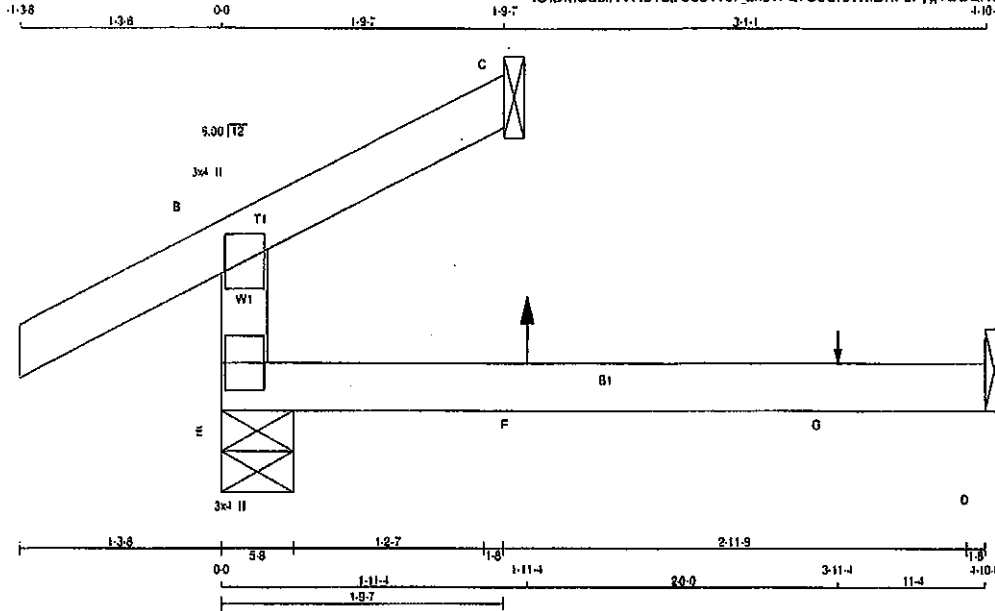


Structural component only
DWG# T-2007652

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C45	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6I_zns1I-E7DsGr3WxBnFcFyg1UCQI48kwwAMuWCotHL1pJzME7v



Scale = 1/16"

TOTAL WEIGHT = 2 X 10 = 21 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS	2x4	DRY	No.2
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 L E N 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	FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
	GROSS REACTION	OWN	GROSS REACTION	OWN	BRG	IN-SX	BRG	IN-SX
E	282	0	282	0	5-8	5-8		
C	55	0	55	0	1-8	1-8		
D	35	0	44	0	1-8	1-8		

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

UNFACTORED REACTIONS

JT	1ST LOOSE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
E	198	137	0	0	0	81	0
C	39	21	0	0	0	18	0
D	29	0	4	0	0	31	0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED		
	FORCE	VERT. LOAD	LC1 MAX		FORCE	MAX	
	(LBS)	(PLF)	CS1(LC)		(LBS)	CS1(LC)	
FR-TO		FROM TO		FR-TO			
E-B	-235	0	0.0	0.0	0.07 (4)	7.81	
A-B	0	28	-91.8	-91.8	0.12 (1)	10.00	
B-C	-13	5	-91.8	-91.8	0.07 (5)	6.25	
E-F	0	0	-18.5	-18.5	0.10 (4)	10.00	
F-G	0	0	-18.5	-18.5	0.10 (4)	10.00	
G-D	0	0	-18.5	-18.5	0.10 (4)	10.00	

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX	FACE	DIR.	TYPE	HEEL	CONN.
F	1-11-4	7	1	12	BACK	VERT	TOTAL	---	C1
G	3-11-4	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. 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 (2018 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 (0.02")

CS1: TC=0.121.00 (A-B:1), BC=0.10/1.00 (D-E:4),
WB=0.00/1.00 (A-B:0), SS=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
(PS)	(PL)	(PL)	
MAX	MIN	MAX	MIN
MT20	618	354	1687
			1937
			1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 6.0 Deg.

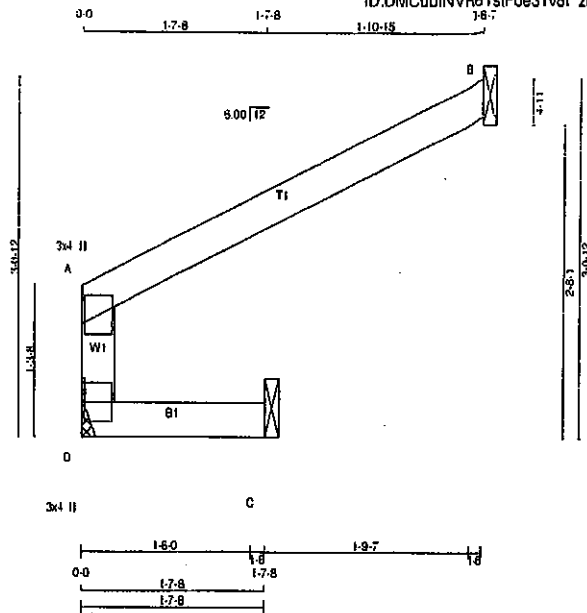
JSI GRIP = 0.10 (E) INPUT = 0.90
JSI METAL = 0.07 (B) INPUT = 1.00



Structural component only
DWG# T-2007653

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C46	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MITek Industries, Inc. Tue Apr 28 10:19:49 2020 Page 1	

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Scale = 1:18.2

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

DRY: SEASONED LUMBER.

PLATES (Table is in inches)	W	LEN	Y	X
JT TYPE	PLATES			
A	TMV+p	MT20	3.0	4.0
D	BMV1+p	MT20	3.0	4.0

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
GROSS REACTION	GROSS REACTION	DOWN	HORIZ	UPLIFT
JT	VERT	HORIZ	DOWN	HORIZ
D	156	0	156	0
B	144	0	144	0
C	55	0	55	0

A SUITABLE HANGER MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1.8.

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

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
D	109	78 0
B	99	80 0
C	40	23 0

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.	MEMB.
MAX. FACTORED	MAX. FACTORED
FORCE (LBS)	FORCE (LBS)
FR-TO	FR-TO
D-A	-181 0
A-B	-8 0
D-C	0 0

DESIGN CRITERIA

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

SPACING = 240 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.14/1.00 (A-B:1), BC=0.09/1.00 (C-D:1), WB=0.00/1.00 (A-B:0), SSI=0.13/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

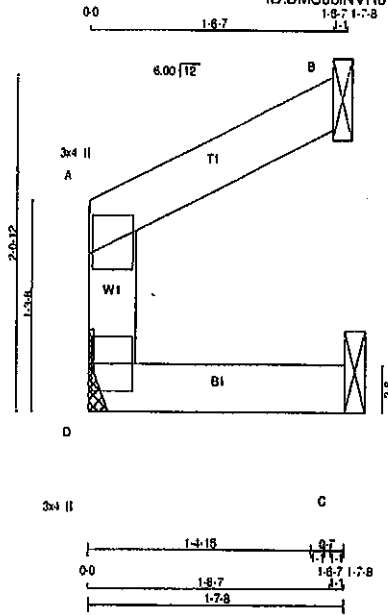
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.08 (D) INPUT = 0.90
JSI METAL=0.05 (A) INPUT = 1.00



Structural component only
DWG# T-2007654

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408224	C47	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:19:50 2020 Page 1	



Scale = 1/16"

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

DRY: SEASONED LUMBER.

PLATES (table in inches)	JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0			
O	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
	GROSS REACTION	GROSS REACTION	BRG	BRG
	DOWN	DOWN	IN-SX	IN-SX
JT	VERT	HORZ	UPLIFT	MECHANICAL
D	86	0	0	1-8
B	67	0	0	1-8
C	19	0	0	1-8

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

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	61	39	0	0	0	0	21	0
B	46	37	0	0	0	0	9	0
C	14	2	0	0	0	0	12	0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LOAD LC1 (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
D-A	-74 0	0.0	0.0 0.01 (1)	7.81			
A-B	-2 0	-91.8	-91.8 0.03 (1)	10.00			
D-C	0 0	-18.5	-18.5 0.01 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. CG

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

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

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

CSI: TC=0.03, 1.00 (A-B:1), BC=0.01, 1.00 (C-D:4), WB=0.00, 1.00 (in a 0), SS1=0.05, 1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1867 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.03 (D) INPUT = 0.99
JSI METAL= 0.02 (A) INPUT = 1.00



Structural component only
DWG# T-2007655