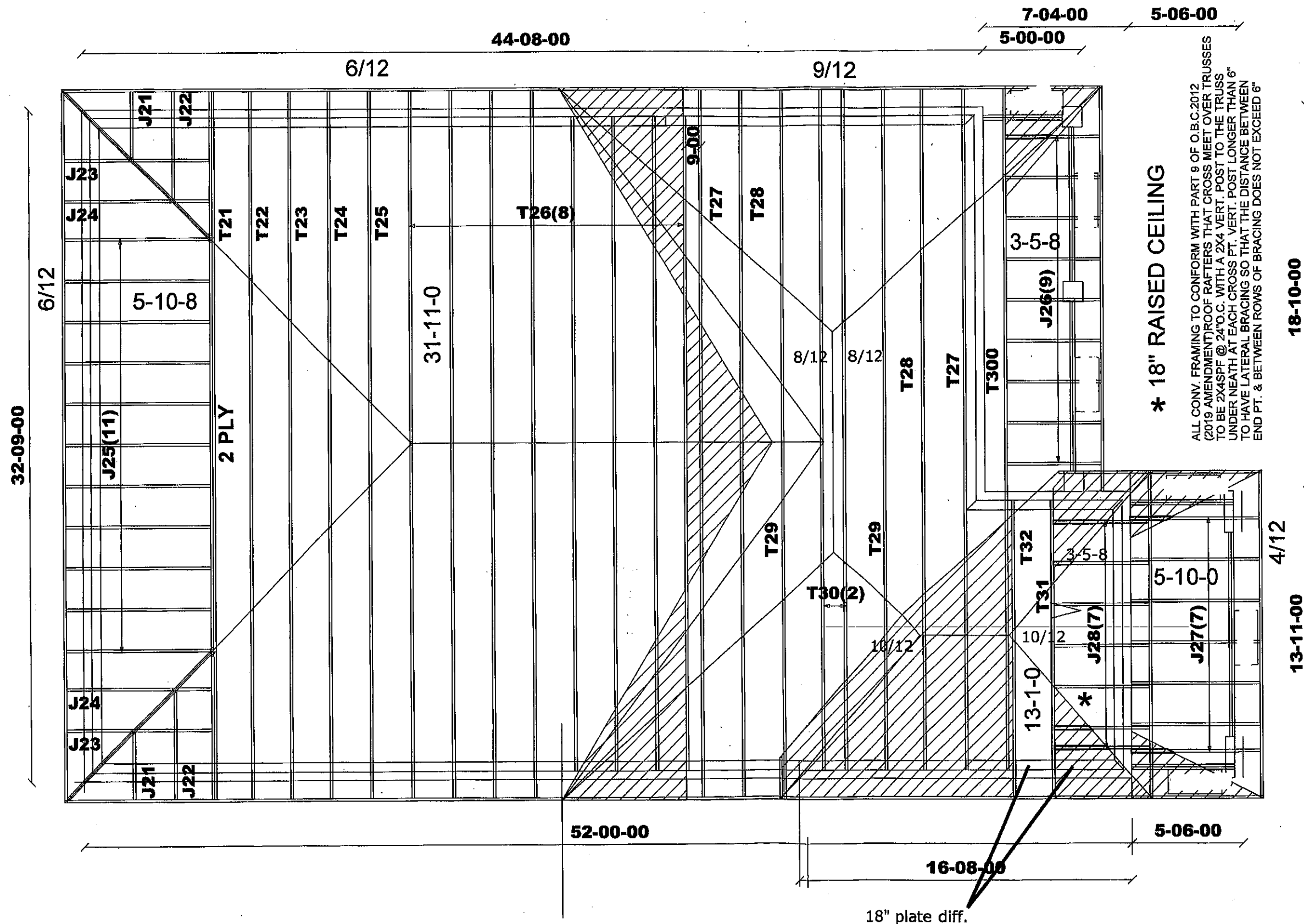
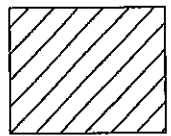




ASPHALT SHINGLES
12" FINISHED OH.
R.T.M.C.
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD

DENOTES
CONV.
FRAMING



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

31.3 as per specs des

M13110



Job Track: **51225**
Plan Log: **202404**
Layout ID: **408164**

Builder / Location:
GREEN PARK HOMES / WATERDOWN
Project: **RUSSELL GARDENS PH.3**
Date: 2020-04-28 Sales: Mario DiCano Designer: AC/IG

Model / Elevation:
VALLEYCREEK 4/2

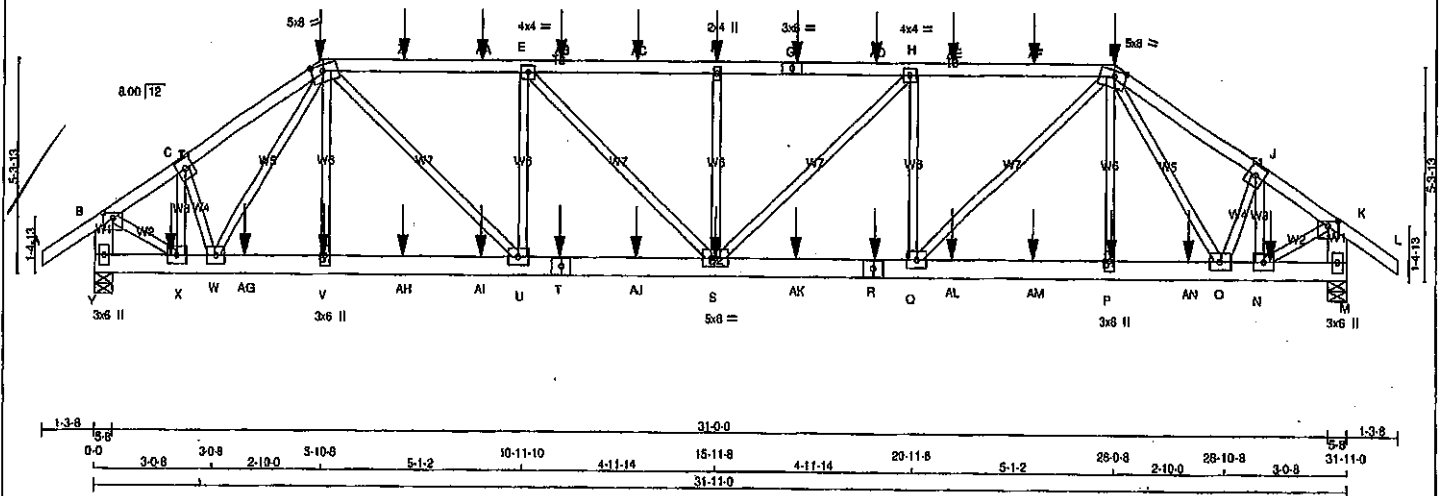
LOT 238

Mitek ver 9.3.1.215

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JOB NAME 408163	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:48:35 2020 Page 1
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31-11-0 33-2-8 1-3-8
ScNo = 1:32.6



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
Y - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
Y - T	2x8	DRY	No.2
T - R	2x8	DRY	No.2
R - M	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

ORY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122'X3') SPIRAL NAILS		
A-D 1	12	SIDE(61.0)
D-G 1	12	SIDE(61.0)
G-I 1	12	SIDE(61.0)
I-L 1	12	SIDE(61.0)
Y-B 2	12	TOP
M-K 2	12	TOP
BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS		
Y-T 2	12	SIDE(183.1)
T-R 2	12	SIDE(183.1)
R-M 2	12	SIDE(183.1)
WEBS : (0.122'X3') SPIRAL NAILS		
V-D 1	8	SIDE(30.3)
P-I 1	8	SIDE(30.3)
2x3 1	8	SIDE(30.3)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMWW-p	MT20	5.0	8.0	1.50 3.00
C TMWW-t	MT20	5.0	8.0	
D TTWW-m	MT20	5.0	8.0	1.75 3.50
E TMWW-t	MT20	4.0	4.0	
F TMWW-w	MT20	2.0	4.0	
G TS-1	MT20	3.0	8.0	
H TMWW-t	MT20	4.0	4.0	
I TTWW-m	MT20	5.0	8.0	1.75 3.50
J TMWW-t	MT20	5.0	8.0	
K TMWW-p	MT20	5.0	8.0	1.50 3.00
M BMV1-p	MT20	3.0	8.0	
N, O, Q, U, W, X				
N BMWW-t	MT20	5.0	8.0	
P BMWW-w	MT20	3.0	8.0	
R BS-1	MT20	5.0	8.0	
S BMWW-t	MT20	5.0	8.0	
T BS-1	MT20	5.0	8.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	UP	BRG	BRG	IN-SX
Y	3538	0	0	3538	0	0	5-8	5-8	5-8
M	3537	0	0	3537	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
Y	2500	1855 / 0	0 / 0	0 / 0	0 / 0
M	2499	1854 / 0	0 / 0	0 / 0	0 / 0

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

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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. (LBS)	MEMB.	FORCE (LBS)	MAX. (LBS)	CS (LC)
FR-TO		FROM TO	OS (LC)	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.07 (1)	10.00	X-C	-1140 / 0	0.10 (1)
B-C	-3539 / 0	-91.8	-91.8 0.10 (1)	4.91	V-D	0 / 285	0.04 (4)
C-D	-3862 / 0	-91.8	-91.8 0.15 (1)	4.70	D-U	0 / 2416	0.30 (1)
D-Z	-5401 / 0	-91.8	-91.8 0.54 (1)	3.65	U-E	-1507 / 0	0.31 (1)
Z-AA	-5401 / 0	-91.8	-91.8 0.54 (1)	3.65	E-S	0 / 1703	0.09 (1)
AA-E	-5401 / 0	-91.8	-91.8 0.54 (1)	3.65	S-F	-838 / 0	0.17 (1)
E-AB	-5901 / 0	-91.8	-91.8 0.57 (1)	3.47	F-H	0 / 1708	0.09 (1)
AB-AC	-5901 / 0	-91.8	-91.8 0.57 (1)	3.47	Q-I	-1505 / 0	0.31 (1)
AC-F	-5901 / 0	-91.8	-91.8 0.57 (1)	3.47	I-J	0 / 2413	0.30 (1)
F-G	-5901 / 0	-91.8	-91.8 0.57 (1)	3.48	P-I	0 / 285	0.04 (4)
G-AD	-5901 / 0	-91.8	-91.8 0.57 (1)	3.48	N-J	-1139 / 0	0.10 (1)
AD-H	-5901 / 0	-91.8	-91.8 0.57 (1)	3.48	B-X	0 / 3248	0.40 (1)
H-AE	-5387 / 0	-91.8	-91.8 0.54 (1)	3.65	N-K	0 / 3247	0.40 (1)
AE-AF	-5387 / 0	-91.8	-91.8 0.54 (1)	3.65	C-W	0 / 681	0.08 (1)
AF-I	-5387 / 0	-91.8	-91.8 0.54 (1)	3.65	W-D	-948 / 0	0.26 (1)
I-J	-3880 / 0	-91.8	-91.8 0.15 (1)	4.70	O-J	0 / 681	0.08 (1)
J-K	-3538 / 0	-91.8	-91.8 0.10 (1)	4.91	I-O	-947 / 0	0.28 (1)
K-L	0 / 35	-91.8	-91.8 0.07 (1)	10.00			
Y-B	-3500 / 0	0.0	0.0 0.13 (1)	7.48			
M-K	-3498 / 0	0.0	0.0 0.13 (1)	7.48			

Y-X	0 / 0	-18.5	-18.5 0.02 (1)	10.00
X-W	0 / 2961	-18.5	-18.5 0.28 (1)	10.00
W-AG	0 / 3859	-18.5	-18.5 0.30 (1)	10.00
AG-V	0 / 3859	-18.5	-18.5 0.30 (1)	10.00
V-AH	0 / 3865	-18.5	-18.5 0.28 (1)	10.00
AH-AI	0 / 3865	-18.5	-18.5 0.28 (1)	10.00
AI-U	0 / 3865	-18.5	-18.5 0.28 (1)	10.00
U-T	0 / 5401	-18.5	-18.5 0.40 (1)	10.00
T-AJ	0 / 5401	-18.5	-18.5 0.40 (1)	10.00
AJ-S	0 / 5401	-18.5	-18.5 0.40 (1)	10.00
S-AK	0 / 5398	-18.5	-18.5 0.40 (1)	10.00
AK-R	0 / 5398	-18.5	-18.5 0.40 (1)	10.00
R-Q	0 / 5398	-18.5	-18.5 0.40 (1)	10.00
Q-AL	0 / 3683	-18.5	-18.5 0.28 (1)	10.00
AL-AM	0 / 3683	-18.5	-18.5 0.28 (1)	10.00
AM-P	0 / 3663	-18.5	-18.5 0.28 (1)	10.00
P-AN	0 / 3658	-18.5	-18.5 0.30 (1)	10.00
AN-O	0 / 3658	-18.5	-18.5 0.30 (1)	10.00
O-N	0 / 2980	-18.5	-18.5 0.26 (1)	10.00
N-M	0 / 0	-18.5	-18.5 0.02 (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. OC

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = U/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = U/999 (0.23")

CSI: TC=0.57/1.00 (E-F:1), BC=0.40/1.00 (S-U:1), WB=0.40/1.00 (B-X:1), SS=0.23/1.00 (D-E:1)

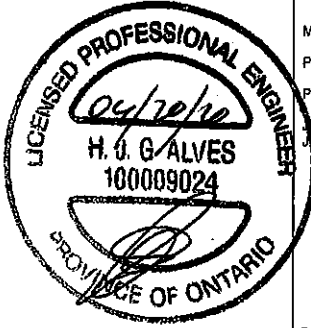
DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
SI GRIP= 0.65 (I) (INPUT = 0.90)
SI METAL= 0.50 (R) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408163	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

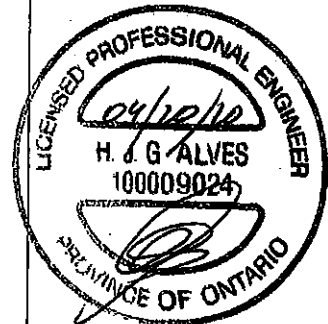
JT	TYPE	PLATES	W	LEN	Y	X
V	BMV1w	MT20	3.0	6.0		
Y	BMV1p	MT20	3.0	6.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-584	-584	---	FRONT	VERT	TOTAL	---	C1
F	15-11-8	-178	-178	---	FRONT	VERT	TOTAL	---	C1
G	17-11-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
I	26-0-8	-584	-584	---	FRONT	VERT	TOTAL	---	C1
N	29-11-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
P	25-11-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
R	19-11-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
S	15-11-8	-36	-36	---	FRONT	VERT	TOTAL	---	C1
T	11-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
V	5-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
X	1-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
Z	7-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AA	9-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AB	11-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AC	13-11-4	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AD	19-11-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AE	21-11-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AF	23-11-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AG	3-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AH	7-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AI	9-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AJ	13-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AK	17-11-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AL	21-11-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AM	23-11-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AN	27-11-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

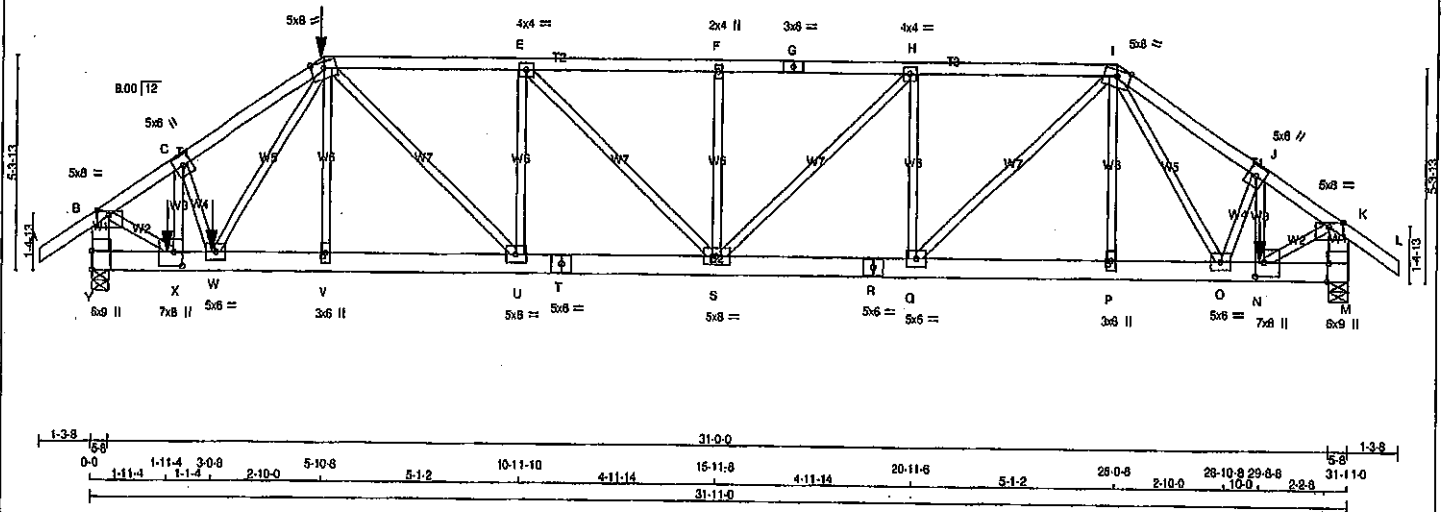


Structural component only
DWG# T-2006468

72

JOB NAME 408163	TRUSS NAME T1Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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1-3-8 0-0 3-0-8 3-0-8 2-10-0 5-10-8 5-1-2 10-11-10 4-11-14 15-11-8 4-11-14 20-11-6 5-1-2 25-0-8 2-10-0 20-10-8 3-0-8 31-11-0 33-2-8
Scale = 1:32.6



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
Y - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
Y - T	2x6	DRY	No.2
T - R	2x6	DRY	No.2
R - M	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-D	12	SIDE (81.0)
D-G	12	TOP
G-I	12	TOP
I-L	12	TOP
Y-B	2	TOP
M-K	2	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
Y-T	2	SIDE (915.6)
T-R	2	TOP
R-M	2	SIDE (915.6)
WEBS: (0.122"x3") SPIRAL NAILS		
2x3	6	
C-X	1	SIDE (391.7)
J-N	1	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	MTW-p	MT20	5.0	8.0	1.25 4.00
C	MTWW-H	MT20	5.0	6.0	
D	TTWWW-m	MT20	5.0	8.0	Edge
E	MTWW-H	MT20	4.0	4.0	
F	MTWW-w	MT20	2.0	4.0	
G	TS-I	MT20	3.0	6.0	
H	MTWW-H	MT20	4.0	4.0	
I	TTWWW-m	MT20	5.0	8.0	Edge
J	MTWW-H	MT20	5.0	8.0	
K	MTWW-p	MT20	5.0	8.0	1.25 4.00
M	BMV1-I	MT20	6.0	9.0	Edge 0.50
N	BMWW-H	MT20	7.0	8.0	4.25 2.50
O, Q, U, W					
O	BMWW-I	MT20	5.0	6.0	
P	BMWW-w	MT20	3.0	6.0	
R	BS-I	MT20	5.0	6.0	
S	BMWWW-I	MT20	5.0	8.0	

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
Y	4889	0	4889	0
M	6873	0	6873	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Y	3433	2308 / 0	0 / 0	0 / 0	0 / 0	1126 / 0	0 / 0
M	4850	3240 / 0	0 / 0	0 / 0	0 / 0	1610 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.67 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8 0.07 (1)	10.00	X-C	-1315 / 0	0.12 (1)	
B-C	-4948 / 0	-91.8 -91.8 0.11 (1)	4.27	V-D	0 / 383	0.04 (1)	
C-D	-5328 / 0	-91.8 -91.8 0.22 (1)	4.05	D-U	0 / 1211	0.15 (1)	
D-E	-4737 / 0	-91.8 -91.8 0.30 (1)	4.18	U-E	-788 / 0	0.16 (1)	
E-F	-5022 / 0	-91.8 -91.8 0.31 (1)	4.06	E-S	0 / 401	0.06 (1)	
F-G	-5022 / 0	-91.8 -91.8 0.31 (1)	4.06	S-F	-420 / 0	0.09 (1)	
G-H	-5022 / 0	-91.8 -91.8 0.31 (1)	4.06	H-S	0 / 332	0.04 (1)	
H-I	-4787 / 0	-91.8 -91.8 0.30 (1)	4.16	Q-H	-747 / 0	0.15 (1)	
I-J	-6115 / 0	-91.8 -91.8 0.27 (1)	3.76	D-I	0 / 1148	0.14 (1)	
J-K	-8704 / 0	-91.8 -91.8 0.18 (1)	3.67	P-I	0 / 233	0.03 (1)	
K-L	0 / 35	-91.8 -91.8 0.07 (1)	10.00	N-J	0 / 1399	0.17 (1)	
Y-B	-4819 / 0	0.0 0.0 0.17 (1)	6.60	B-X	0 / 4525	0.56 (1)	
M-K	-6463 / 0	0.0 0.0 0.23 (1)	5.84	N-K	0 / 6121	0.78 (1)	
Y-X	0 / 0	-18.5 -18.5 0.02 (1)	10.00	C-W	0 / 854	0.11 (1)	
X-W	0 / 4124	-18.5 -18.5 0.46 (1)	10.00	W-D	0 / 1148	0.14 (1)	
W-V	0 / 3860	-18.5 -18.5 0.45 (1)	10.00	O-J	-1448 / 0	0.14 (1)	
V-U	0 / 3967	-18.5 -18.5 0.32 (1)	10.00	I-O	0 / 2298	0.28 (1)	
U-T	0 / 4738	-18.5 -18.5 0.34 (1)	10.00				
T-S	0 / 4738	-18.5 -18.5 0.34 (1)	10.00				
S-R	0 / 4738	-18.5 -18.5 0.35 (1)	10.00				
R-Q	0 / 4738	-18.5 -18.5 0.35 (1)	10.00				
Q-P	0 / 3961	-18.5 -18.5 0.31 (1)	10.00				
P-O	0 / 3958	-18.5 -18.5 0.33 (1)	10.00				
O-N	0 / 6579	-18.5 -18.5 0.88 (1)	10.00				
N-M	0 / 0	-18.5 -18.5 0.32 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.
D	5-10-8	-389	-389	---	BACK
N	20-8-8	-5011	-5011	---	BACK
W	3-0-8	-2525	-2525	---	BACK
X	1-11-4	-38	-38	---	BACK

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.0	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 089-09, CSA 088-14
- TPC 2011, TPC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = U/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = U/999 (0.20")

CSI: TC=0.31/1.00 (E-F), BC=0.68/1.00 (N-O), WB=0.78/1.00 (K-N), SSI=0.25/1.00 (N-O)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

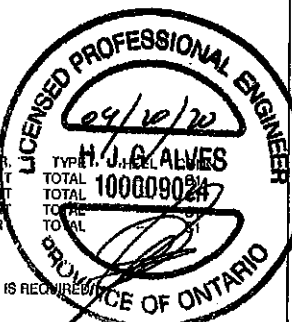
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

GRIP = 0.87 (B) (INPUT = 0.90)
METAL = 0.72 (X) (INPUT = 1.00)



Structural component only
DWG# T-2006469

CONTINUED ON PAGE 2

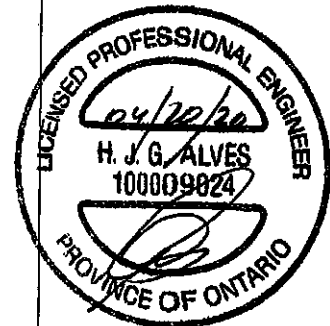
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408163	T1Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Fri Apr 17 08:48:36 2020 Page 2
ID:KIHNL7kiAuBVUgBrpQW7E8zls6y-LzTSS0elOcsOImTfs43m0hpSskKqM5c8G_o893zPrXH

PLATES (table is in inches)

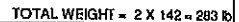
JT	TYPE	PLATES	W	LEN	Y	X
T	BS-t	MT20	5.0	6.0		
V	BMW+vw	MT20	3.0	6.0		
X	BMWVW+t	MT20	7.0	8.0	4.25	2.50
Y	BMV1+t	MT20	6.0	9.0	5.50	

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



Structural component only
DWG# T-2006469

7/2

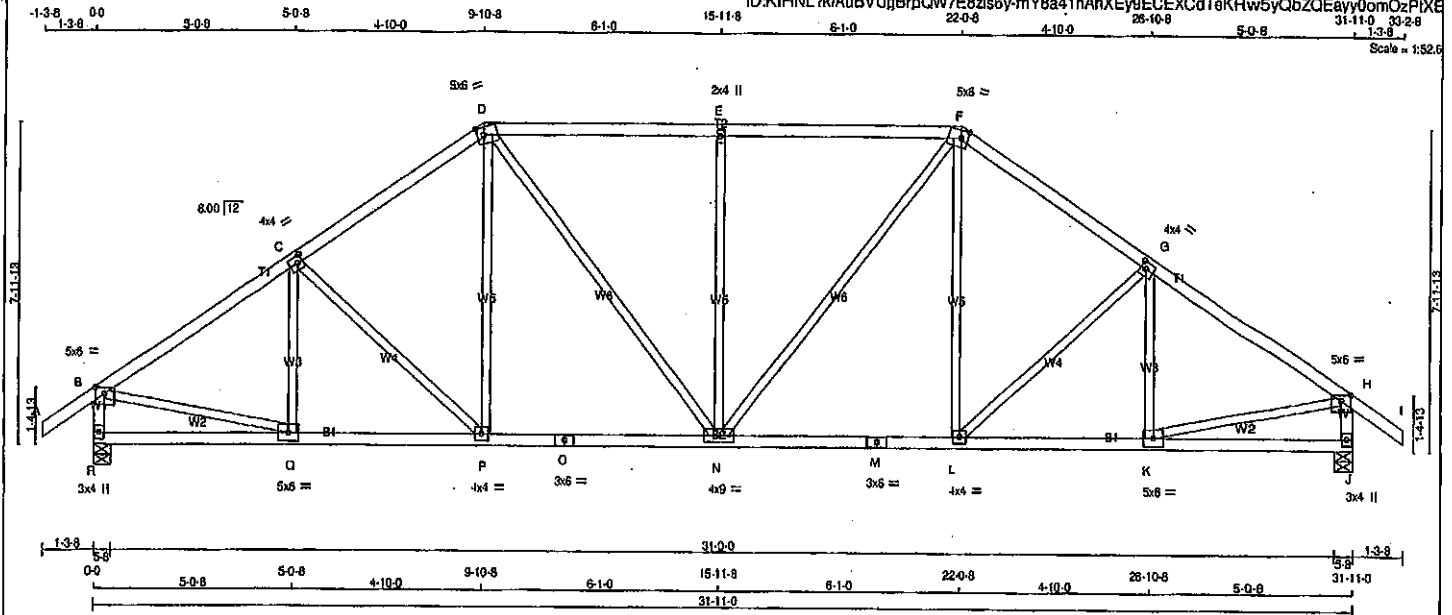
Scale = 1:52.6

Structural component only
DWG# T-2006470

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408163	T3	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:39 2020 Page 1
ID:KIHNL7kAuBVUgBrpQW7E8zls6y-mY8a41hAhXEy8ECEXCd7tKRW5yQbZQEayy0omOzPIXE



TOTAL WEIGHT = 2 X 142 = 283 lb
(MIF)

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
R - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2
ALL WEBS 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	6.0	1.75 3.00
C	TMVW-l	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	5.0	6.0	2.25 2.00
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	6.0	2.25 2.00
G	TMVW-l	MT20	4.0	4.0	2.00 1.50
H	TMVW-p	MT20	5.0	6.0	1.75 3.00
J	BMV1+p	MT20	3.0	4.0	
K	BMVW-l	MT20	5.0	6.0	
L	BMVW-l	MT20	4.0	4.0	
M	BS-l	MT20	3.0	6.0	
N	BMVWVW-l	MT20	4.0	6.0	
O	BS-l	MT20	3.0	6.0	
P	BMVW-l	MT20	4.0	4.0	
Q	BMVW-l	MT20	5.0	6.0	
R	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	DOWN	HORZ	GROSS REACTION	GROSS REACTION	BRG	IN-SX	BRG	IN-SX
R	1885	0	1885	0	0	5-8	5-8	5-8	5-8
J	1885	0	1885	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
R	1331	887/0	0/0	0/0	444/0
J	1331	887/0	0/0	0/0	444/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.35 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. C/L (CSI)	MAX. UNBRAC. LENGTH	MEMB.	FORCE (LBS)	MAX. C/L (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/35	-91.8 -91.8	0.12 (1)	10.00	Q-C	-280/0	0.09 (1)
B-C	-2071/0	-91.8 -91.8	0.35 (1)	4.39	C-P	-244/0	0.20 (1)
C-D	-1915/0	-91.8 -91.8	0.34 (1)	4.55	P-D	0/287	0.06 (1)
D-E	-1885/0	-91.8 -91.8	0.49 (1)	4.35	D-N	0/508	0.11 (1)
E-F	-1885/0	-91.8 -91.8	0.49 (1)	4.35	N-E	-684/0	0.83 (1)
F-G	-1915/0	-91.8 -91.8	0.34 (1)	4.55	N-F	0/508	0.11 (1)
G-H	-2071/0	-91.8 -91.8	0.35 (1)	4.39	L-F	0/287	0.06 (1)
H-I	0/35	-91.8 -91.8	0.12 (1)	10.00	L-G	-244/0	0.20 (1)
R-B	-1844/0	0.0 0.0	0.19 (1)	6.18	K-G	-280/0	0.09 (1)
J-H	-1844/0	0.0 0.0	0.19 (1)	6.18	B-Q	0/1787	0.40 (1)
					K-H	0/1787	0.40 (1)
R-Q	0/0	-18.5 -18.5	0.10 (4)	10.00			
Q-P	0/1747	-18.5 -18.5	0.34 (1)	10.00			
P-O	0/1570	-18.5 -18.5	0.32 (1)	10.00			
O-N	0/1570	-18.5 -18.5	0.32 (1)	10.00			
N-M	0/1570	-18.5 -18.5	0.32 (1)	10.00			
M-L	0/1570	-18.5 -18.5	0.32 (1)	10.00			
L-K	0/1747	-18.5 -18.5	0.34 (1)	10.00			
K-J	0/0	-18.5 -18.5	0.10 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.49/1.00 (D-E:1), BC=0.34/1.00 (P-Q:1),
WB=0.83/1.00 (E-N:1), SSI=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

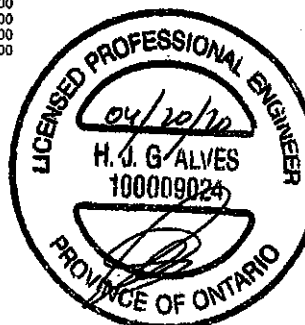
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 798 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (Q) (INPUT = 0.90)
JSI METAL= 0.51 (O) (INPUT = 1.00)

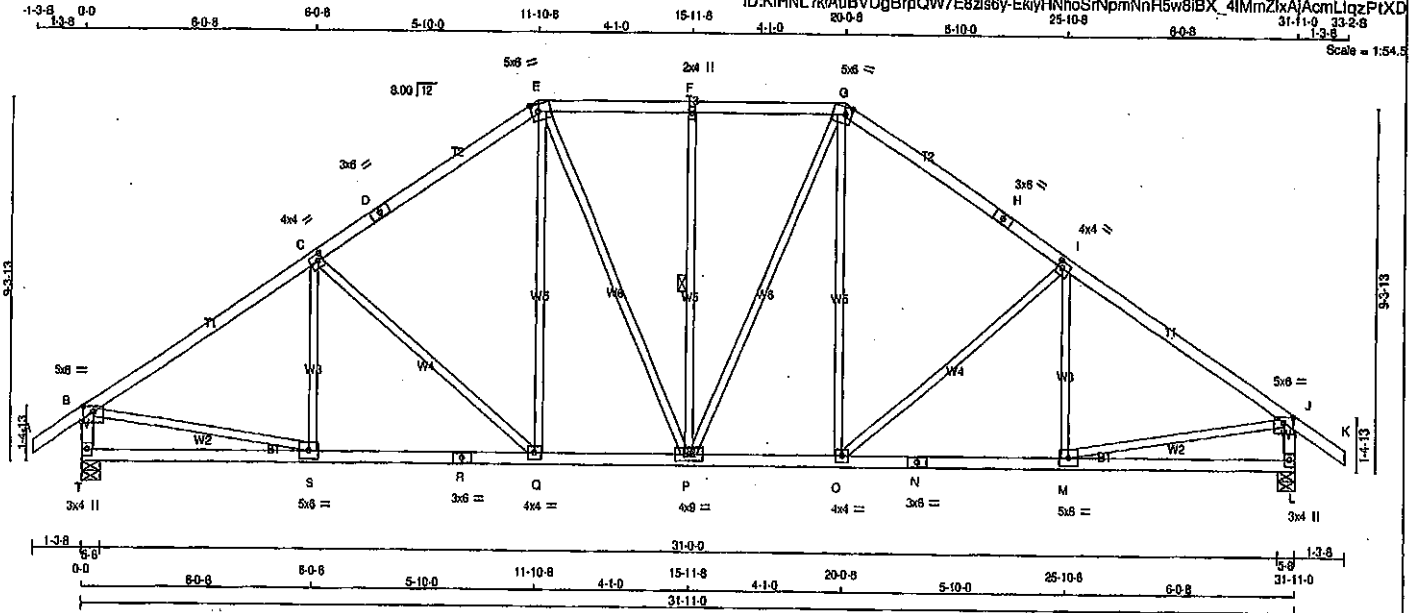


Structural component only
DWG# T-2006471

JOB NAME 408163	TRUSS NAME T4	QUANTITY 11	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:46:40 2020 Page 1
ID:KIHNL7kAuBVUgBrpQW7E8zls6y-EkiyHNhoSrNpmNnR5w8IBX_4IMmZlxAJAcnLiqzPjXkD
20-0-8 25-10-8 31-11-0 33-2-8
Scale = 1:54.5



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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.75	3.00
C	TMVW-l	MT20	4.0	4.0	2.00	1.50
D	TS-l	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-l	MT20	3.0	6.0		
I	TMVW-l	MT20	4.0	4.0	2.00	1.50
J	TMVW-p	MT20	5.0	6.0	1.75	3.00
L	BMV1+p	MT20	3.0	4.0		
M	BMVW-l	MT20	5.0	6.0		
N	BS-l	MT20	3.0	6.0		
O	BMVW-l	MT20	4.0	4.0		
P	BMVW-w	MT20	4.0	4.0		
Q	BS-l	MT20	3.0	6.0		
R	BS-l	MT20	3.0	6.0		
S	BMVW-l	MT20	5.0	6.0		
T	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	DOWN	UPLIFT	IN-SX
JT	VERT	HORZ		
T	1885	0	1885	0
L	1885	0	1885	0

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	1331	887 / 0	0 / 0	0 / 0	444 / 0	0 / 0
T	1331	887 / 0	0 / 0	0 / 0	444 / 0	0 / 0
L	1331	887 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F.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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	S-C	-194 / 35	0.09 (1)	
B-C	-2097 / 0	-91.8	-91.8	0.53 (1)	4.16	C-Q	-420 / 0	0.53 (1)	
C-D	-1790 / 0	-91.8	-91.8	0.48 (1)	4.48	Q-E	0 / 389	0.08 (1)	
D-E	-1790 / 0	-91.8	-91.8	0.48 (1)	4.48	E-P	0 / 280	0.06 (1)	
E-F	-1578 / 0	-91.8	-91.8	0.21 (1)	5.05	P-F	-449 / 0	0.28 (1)	
F-G	-1578 / 0	-91.8	-91.8	0.21 (1)	5.05	P-G	0 / 280	0.06 (1)	
G-H	-1790 / 0	-91.8	-91.8	0.48 (1)	4.48	Q-G	0 / 389	0.08 (1)	
H-I	-1790 / 0	-91.8	-91.8	0.48 (1)	4.48	Q-I	-420 / 0	0.53 (1)	
I-J	-2097 / 0	-91.8	-91.8	0.53 (1)	4.16	M-I	-194 / 35	0.09 (1)	
J-K	0 / 35	-91.8	-91.8	0.12 (1)	10.00	B-S	0 / 1803	0.41 (1)	
K-L	-1838 / 0	0.0	0.0	0.18 (1)	6.18	M-J	0 / 1803	0.41 (1)	
L-J	-1838 / 0	0.0	0.0	0.18 (1)	6.18				
T-S	0 / 0	-18.5	-18.5	0.18 (4)	10.00				
S-R	0 / 1775	-18.5	-18.5	0.38 (1)	10.00				
R-Q	0 / 1775	-18.5	-18.5	0.38 (1)	10.00				
Q-P	0 / 1461	-18.5	-18.5	0.29 (1)	10.00				
P-O	0 / 1461	-18.5	-18.5	0.29 (1)	10.00				
O-N	0 / 1775	-18.5	-18.5	0.38 (1)	10.00				
N-M	0 / 1775	-18.5	-18.5	0.38 (1)	10.00				
M-L	0 / 0	-18.5	-18.5	0.18 (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 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL.(LL) = $L/360$ (1.06")
CALCULATED VERT. DEFL.(LL) = $L/989$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (1.06")
CALCULATED VERT. DEFL.(TL) = $L/989$ (0.14")
CSI: TC=0.53/1.00 (B-C:1), BC=0.36/1.00 (Q-S:1), WB=0.53/1.00 (C-Q: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

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

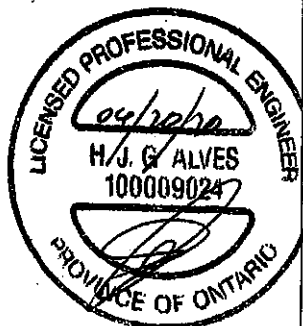
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

ISI GRIP = 0.84 (B) (INPUT = 0.80)
ISI METAL = 0.57 (N) (INPUT = 1.00)



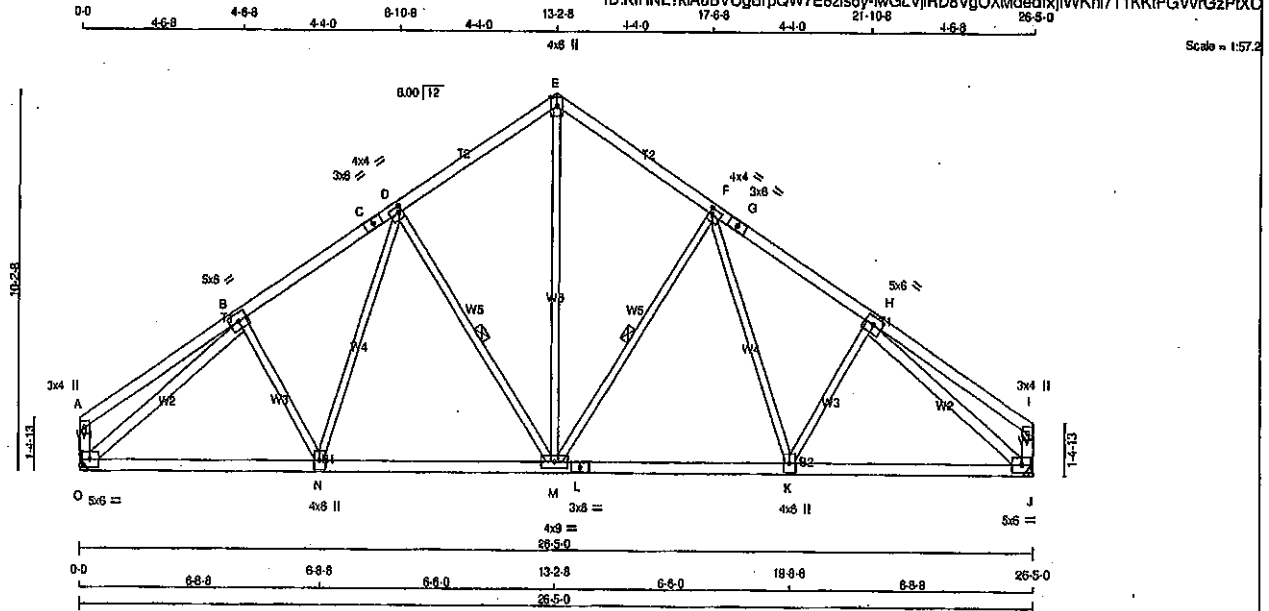
Structural component only
DWG# T-2006472

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408163	T5	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:KIHNL?kIAuBVUg8rpQW7E8zIs8y-lwGLVjIRD8VgOXMdedfxjWKh171KKtPGVvrGzPXCO



Scale = 1:57.2

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMWW-t	MT20	5.0	6.0		
C	TS-t	MT20	3.0	6.0		
D	TMWW-t	MT20	4.0	4.0	2.00	1.00
E	TTW+p	MT20	4.0	6.0	Edge	
F	TMWW-t	MT20	4.0	4.0	2.00	1.00
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	5.0	6.0		
I	TMV+p	MT20	3.0	4.0		
J	BMVW-t	MT20	5.0	6.0		
K	BMWW-t	MT20	4.0	6.0		
L	BS-t	MT20	3.0	6.0		
M	BMWW-t	MT20	4.0	6.0		
N	BMWW-t	MT20	4.0	6.0		
O	BMWW-t	MT20	5.0	6.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	IN-SX
O	1456	0	1456	0
J	1456	0	1456	0

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	1030	676 / 0	0 / 0	0 / 0	0 / 0	354 / 0	0 / 0
J	1030	676 / 0	0 / 0	0 / 0	0 / 0	354 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.05 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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. CS1 (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO						FR-TO			
A-B	0 / 21	-91.8	-91.8	0.23 (1)	10.00	M-E	0 / 985	0.22 (1)	
B-C	-1580 / 0	-91.8	-91.8	0.21 (1)	5.05	M-F	-511 / 0	0.23 (1)	
C-D	-1580 / 0	-91.8	-91.8	0.21 (1)	5.05	F-K	0 / 226	0.05 (1)	
D-E	-1198 / 0	-91.8	-91.8	0.21 (1)	5.82	K-H	-92 / 25	0.03 (1)	
E-F	-1198 / 0	-91.8	-91.8	0.21 (1)	5.82	D-M	-511 / 0	0.23 (1)	
F-G	-1580 / 0	-91.8	-91.8	0.21 (1)	5.05	N-D	0 / 226	0.05 (1)	
G-H	-1580 / 0	-91.8	-91.8	0.21 (1)	5.05	B-N	-92 / 25	0.03 (1)	
H-I	0 / 21	-91.8	-91.8	0.23 (1)	10.00	C-B	-1642 / 0	0.79 (1)	
O-A	-164 / 0	0.0	0.0	0.02 (1)	7.81	H-J	-1642 / 0	0.79 (1)	
J-I	-164 / 0	0.0	0.0	0.02 (1)	7.81				
O-N	0 / 1361	-18.5	-18.5	0.32 (1)	10.00				
N-M	0 / 1248	-18.5	-18.5	0.30 (1)	10.00				
M-L	0 / 1248	-18.5	-18.5	0.30 (1)	10.00				
L-K	0 / 1248	-18.5	-18.5	0.30 (1)	10.00				
K-J	0 / 1361	-18.5	-18.5	0.32 (1)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.88")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.06")
ALLOWABLE DEFL. (TL) = $L/360$ (0.88")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.11")

CS1: TC=0.23/1.00 (H-I:1), BC=0.32/1.00 (J-K:1),
WB=0.79/1.00 (H-J:1), SS1=0.16/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

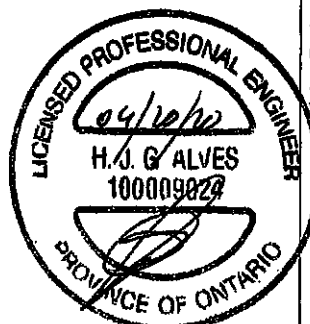
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (ORY) SHEAR SECTION
(PS) (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= 0.88 (M) (INPUT = 0.90)
JSI METAL= 0.46 (H) (INPUT = 1.00)

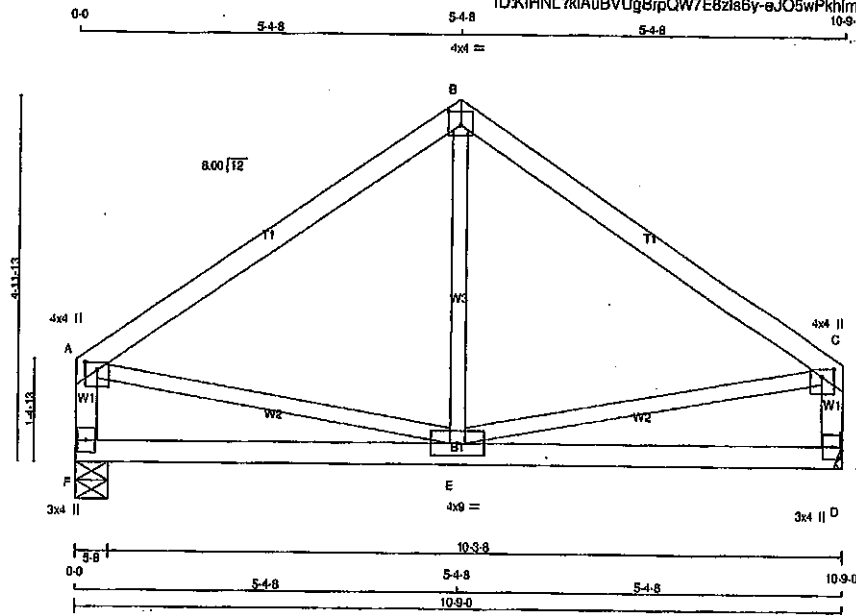


Structural component only
DWG# T-2008473

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408163	T6	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1/29.0

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

ALL WEBS 2x3 DRY No.2 EXCEPT

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	TTW-p	MT20	4.0	4.0	2.25	2.00
C	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

DESCR.	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	SPF	VERT	DOWN	UPLIFT	IN-SX
F	SPF	593	0	0	5-8
D	SPF	593	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	419	275 / 0	0 / 0	0 / 0	0 / 0	144 / 0	0 / 0	0 / 0
D	419	275 / 0	0 / 0	0 / 0	0 / 0	144 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	LC1 MAX	LC2 MAX	UNBRACED LENGTH	FR-TO	WEBS	MAX. FACTORED MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	-428 / 0	-91.8	-91.8	0.34 (1)	6.25	E-B	-20 / 85	0.03 (4)	
B-C	-428 / 0	-91.8	-91.8	0.34 (1)	6.25	A-E	0 / 362	0.08 (1)	
F-A	-554 / 0	0.0	0.0	0.08 (1)	7.81	E-C	0 / 362	0.08 (1)	
D-C	-554 / 0	0.0	0.0	0.08 (1)	7.81				
F-E	0 / 0	-18.5	-18.5	0.15 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.15 (4)	10.00				

TOTAL WEIGHT = 2 X 41 = 82 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.34/1.00 (B-C:1), BC=0.15/1.00 (D-E:4), WB=0.08/1.00 (C-E:1), SS=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

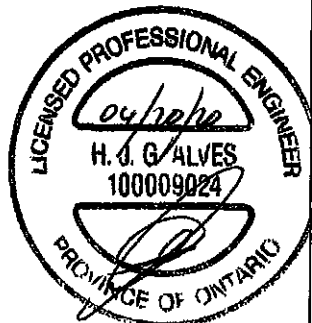
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

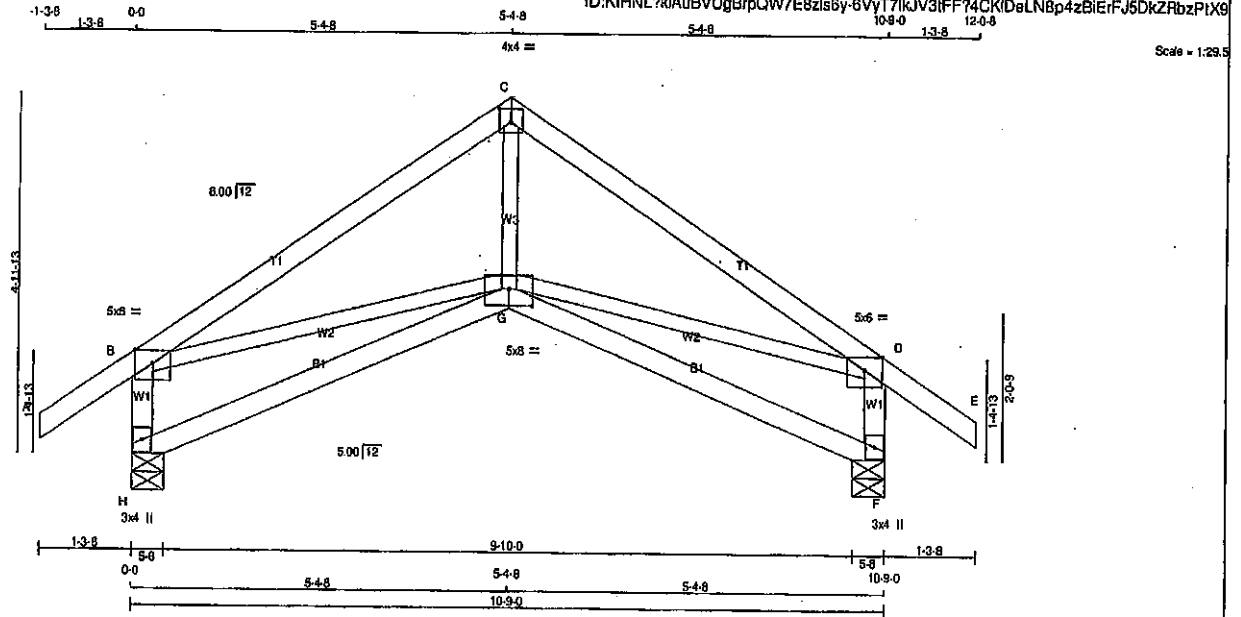
JSI GRIP = 0.45 (C) (INPUT = 0.90)
JSI METAL = 0.13 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006474

JOB NAME 408163	TRUSS NAME T7S	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:25.5

LUMBER TOTAL WEIGHT = 2 X 45 = 90 lb

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge	
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TMVW-p	MT20	6.0	6.0	Edge	
F	BMV1-p	MT20	3.0	4.0		
G	BBWW-p	MT20	5.0	8.0	2.75	4.00
H	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	BRG	IN-SX
H	719	0	719	0	0	0	5-8	5-8	5-8
F	719	0	719	0	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND
H	508	345 / 0	0 / 0	0 / 0	0 / 0
F	508	345 / 0	0 / 0	0 / 0	0 / 0

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

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

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO			
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00
B-C	-735 / 0	-91.8 -91.8 0.35 (1)	6.25
C-D	-735 / 0	-91.8 -91.8 0.35 (1)	6.25
D-E	0 / 35	-91.8 -91.8 0.12 (1)	10.00
H-B	-689 / 0	0.0 0.0 0.07 (1)	7.81
F-D	-689 / 0	0.0 0.0 0.07 (1)	7.81
H-G	0 / 0	-18.5 -18.5 0.16 (4)	10.00
G-F	0 / 0	-18.5 -18.5 0.16 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.35/1.00 (B-C:1), BC=0.16/1.00 (G-H:4), WB=0.14/1.00 (B-G:1), SS=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

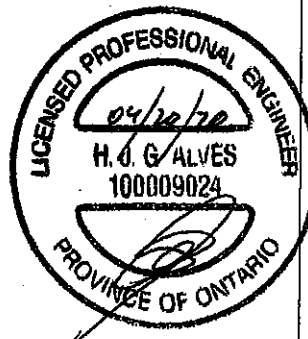
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 610 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

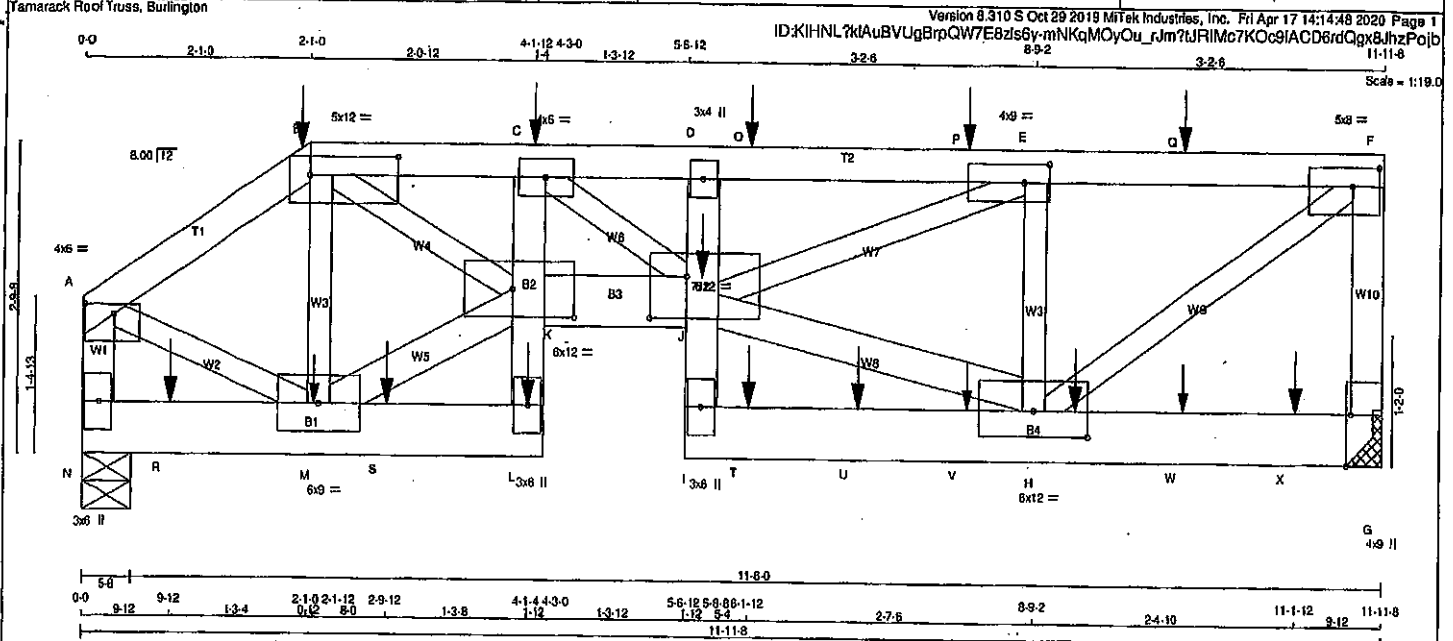
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.64 (C) (INPUT = 0.80)
JSI METAL = 0.17 (D) (INPUT = 1.00)



Structural component only
DWG# T-2006475

JOB NAME 408163	TRUSS NAME T8	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF	
B - F	2x4	DRY	No.2	SPF	
G - F	2x4	DRY	No.2	SPF	
N - A	2x4	DRY	No.2	SPF	
N - L	2x8	DRY	No.2	SPF	
L - C	2x4	DRY	No.2	SPF	
K - J	2x6	DRY	No.2	SPF	
J - D	2x4	DRY	No.2	SPF	
I - G	2x6	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
M - K	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B	12	SIDE(61.0)
B-F	12	SIDE(61.0)
F-G	12	TOP
N-A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
N-L	12	SIDE(0.0)
K-J	12	SIDE(61.0)
I-G	12	SIDE(183.1)
L-C	12	SIDE(29.4)
D-I	3	SIDE(318.3)
WEBS : (0.122"x3") SPIRAL NAILS		
E-H	4	SIDE(192.0)
2x3	1	
2x4	1	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3.0 INCH NAILS.

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMVW-p	MT20	4.0	8.0	1.00	3.25
B TMVW-i	MT20	5.0	12.0	2.00	9.75
C TMVW-i	MT20	4.0	6.0		
D TMV-p	MT20	3.0	4.0		
E TMVW-i	MT20	4.0	8.0	2.00	2.75
F TMVW-i	MT20	5.0	8.0	2.00	3.00
G BMV-i	MT20	4.0	8.0	Edge	0.50
H BMVWV-i	MT20	6.0	12.0	2.75	8.00
I BMV-p	MT20	3.0	6.0		
J BMVWVW-i	MT20	7.0	12.0	4.50	4.00
K BMVWVW-i	MT20	8.0	12.0	3.00	6.75
L BMV-p	MT20	3.0	6.0		
M BMVWVW-i	MT20	6.0	9.0		
N BMV-i	MT20	3.0	6.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
G	5030	0	0	MECHANICAL
N	4034	0	0	5-8

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

UNFACTORED REACTIONS

1ST L CASE	MAX/MIN COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE		
G	3552	2359	0	0	0
N	2848	1909	0	0	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.25 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.

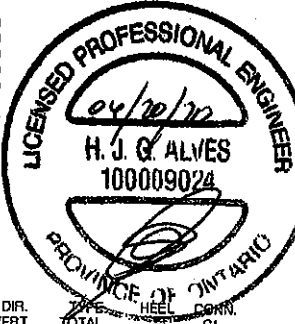
LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED MEMB. FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO						FR-TO			
A-B	-3843	0	-91.8	-91.8	0.08 (1)	M-B	-2179	0	0.13 (1)
B-C	-9543	0	-91.8	-91.8	0.40 (1)	C-J	0	72248	0.28 (1)
C-D	-11672	0	-91.8	-91.8	0.62 (1)	H-E	-2889	0	0.25 (1)
D-O	-11175	0	-91.8	-91.8	0.63 (1)	H-F	0	76454	0.80 (1)
O-P	-11175	0	-91.8	-91.8	0.63 (1)	A-M	0	73602	0.43 (1)
P-E	-11175	0	-91.8	-91.8	0.63 (1)	M-K	0	73191	0.28 (1)
E-Q	-5097	0	-91.8	-91.8	0.16 (1)	B-K	0	77537	0.93 (1)
Q-F	-5097	0	-91.8	-91.8	0.16 (1)	J-H	0	74983	0.44 (1)
G-F	-4076	0	0.0	0.0	0.29 (1)	J-E	0	76452	0.80 (1)
N-A	-3695	0	0.0	0.0	0.21 (1)				
N-R	0	0	-18.5	-18.5	0.10 (1)				
R-M	0	0	-18.5	-18.5	0.10 (1)				
M-S	0	374	-18.5	-18.5	0.12 (1)				
S-L	0	374	-18.5	-18.5	0.12 (1)				
L-K	0	657	0.0	0.0	0.39 (1)				
K-C	-1484	0	0.0	0.0	0.34 (1)				
K-J	0	9900	-18.5	-18.5	0.65 (1)				
J-D	0	677	0.0	0.0	0.52 (1)				
J-T	-22	24	0.0	0.0	0.46 (1)				
T-U	0	532	-18.5	-18.5	0.38 (1)				
U-V	0	532	-18.5	-18.5	0.38 (1)				
V-H	0	532	-18.5	-18.5	0.38 (1)				
H-W	0	532	-18.5	-18.5	0.38 (1)				
W-X	0	0	-18.5	-18.5	0.28 (1)				
X-G	0	0	-18.5	-18.5	0.28 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX.	MAX+	FACE	DIR.	TOTAL	HEEL	CONN.
B	2-1-0	-94	-	-	BACK	VERT	...	...	...
C	4-1-12	-4	-	-	BACK	VERT	...	...	...
H	9-1-12	-1438	-1438	-	FRONT	VERT	...	...	...
J	5-8-8	-1446	-1446	-	FRONT	VERT	...	...	...
L	4-1-4	-581	-581	-	FRONT	VERT	...	...	...
L	4-1-4	-10	-10	-	BACK	VERT	...	...	...
M	2-1-12	-1	-1	-	BACK	VERT	...	...	...
O	6-1-12	-4	-4	-	BACK	VERT	...	...	...
P	8-1-12	-4	-4	-	BACK	VERT	...	...	...



DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/380 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/380 (0.40")
CALCULATED VERT. DEFL.(TL) = L/558 (0.28")

CSI: TC=0.631/0.0 (D-E:1), BC=0.851/0.0 (J-K:1),
WB=0.931/0.0 (B-K:1), SS=0.321/0.0 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.73 (K) (INPUT = 1.00)

Structural component only 1/2
DWG# T-2006476

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408163	T8	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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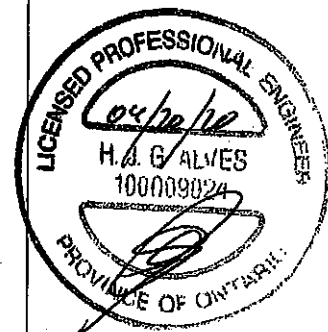
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Q	10-1-12	-4	-4	---	BACK	VERT	TOTAL	---	C1
R	9-12	-702	-702	---	FRONT	VERT	TOTAL	---	C1
S	2-9-12	-574	-574	---	FRONT	VERT	TOTAL	---	C1
T	8-1-12	-8	-8	---	BACK	VERT	TOTAL	---	C1
U	7-1-12	-1438	-1438	---	FRONT	VERT	TOTAL	---	C1
V	8-1-12	-1	-1	---	BACK	VERT	TOTAL	---	C1
W	10-1-12	-1	-1	---	BACK	VERT	TOTAL	---	C1
X	11-1-12	-1438	-1438	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2006476

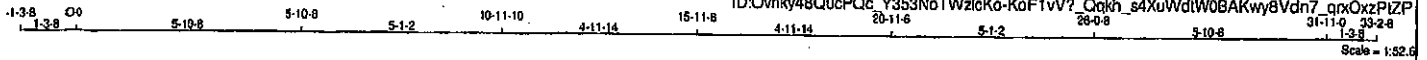
32

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408165	T21	1	2	GREEN PARK HOMES		

Tamarack Rd of Truss, Burlington

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ID:Ovhky48Q0cPQc Y353NoTWzlcKo-KoF1vV? Cqkh_s4XuWdW0BAKwy8Vdn7_qrxOxzPlZP



LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER		DESCR.
A - C	2x4	DRY	No.2		SPF
C - F	2x6	DRY	No.2		SPF
F - H	2x6	DRY	No.2		SPF
H - J	2x4	DRY	No.2		SPF
S - B	2x6	DRY	No.2		SPF
K - I	2x6	DRY	No.2		SPF
S - Q	2x6	DRY	No.2		SPF
Q - M	2x6	DRY	No.2		SPF
M - K	2x6	DRY	No.2		SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS: (0.122'X3") SPIRAL NAILS		
A-C 1	12	SIDE(81.0)
H-J 1	12	SIDE(81.0)
C-F 2	12	SIDE(183.1)
F-H 2	12	SIDE(183.1)
S-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS: (0.122'X3") SPIRAL NAILS		
S-Q 2	12	SIDE(183.1)
Q-M 2	12	SIDE(183.1)
M-K 2	12	SIDE(183.1)
WEBS: (0.122'X3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	8.0	2.00	3.25	
C TTWW-m	MT20	7.0	8.0	2.75	2.75	
D TMWV-t	MT20	5.0	8.0			
E TMWV-w	MT20	3.0	8.0			
F TS-t	MT20	5.0	8.0			
G TMWV-t	MT20	5.0	8.0			
H TTWW-m	MT20	7.0	8.0	2.75	2.75	
I TMWV-p	MT20	5.0	8.0	2.00	3.25	
K BMV1-p	MT20	3.0	8.0			
L BMWV-t	MT20	5.0	8.0	2.50	3.25	
M BS-t	MT20	5.0	8.0			
N BMWV-t	MT20	6.0	9.0	3.75	3.00	
O BMWVW-t	MT20	5.0	8.0			
P BMWV-t	MT20	6.0	9.0	3.75	3.00	
Q BS-t	MT20	5.0	8.0			
R BMWV-t	MT20	5.0	8.0	2.50	3.25	
S BMV1-p	MT20	3.0	8.0			

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	DOWN	UPLIFT	IN-SX
S	3035	0	0	5-8
K	3034	0	0	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
S	2146	1410 / 0
K	2145	1409 / 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 = 4.07 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)
FR-TO		FROM TO	
A-B	0 / 28	-91.8 -91.8	0.07 (1)
B-C	-4576 / 0	-91.8 -91.8	0.48 (1)
C-T	-5682 / 0	-91.8 -91.8	0.38 (1)
T-U	-5682 / 0	-91.8 -91.8	0.38 (1)
U-V	-5682 / 0	-91.8 -91.8	0.38 (1)
V-D	-5682 / 0	-91.8 -91.8	0.38 (1)
D-W	-5618 / 0	-91.8 -91.8	0.29 (1)
W-E	-5618 / 0	-91.8 -91.8	0.29 (1)
E-F	-5618 / 0	-91.8 -91.8	0.29 (1)
F-G	-5618 / 0	-91.8 -91.8	0.29 (1)
G-X	-5680 / 0	-91.8 -91.8	0.38 (1)
X-Y	-5680 / 0	-91.8 -91.8	0.38 (1)
Y-Z	-5680 / 0	-91.8 -91.8	0.38 (1)
Z-H	-5680 / 0	-91.8 -91.8	0.38 (1)
H-I	-4574 / 0	-91.8 -91.8	0.48 (1)
I-J	0 / 28	-91.8 -91.8	0.07 (1)
S-B	2972 / 0	0.0 0.0	0.10 (1)
K-I	2971 / 0	0.0 0.0	0.10 (1)

WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	
R-C	-311 / 77
P-C	0 / 2785
D-D	-1060 / 0
D-O	-109 / 0
O-E	0 / 191
O-G	-105 / 0
N-H	0 / 2763
L-H	-311 / 77
B-R	0 / 4138
L-I	0 / 4137

DESIGNED PROFESSIONAL

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-457	-110	-110	-110	FRONT	VERT	TOTAL	-	C1
E	15-11-8	-110	-110	-110	-110	FRONT	VERT	TOTAL	-	C1
F	17-11-12	-110	-110	-110	-110	FRONT	VERT	TOTAL	-	C1

TOTAL WEIGHT = 2 X 155 = 311 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/899 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/899 (0.30")

CSI: TC=0.48/1.00 (B-C-I), BC=0.47/1.00 (O-P-I), WB=0.51/1.00 (B-R-I), CSI=0.20/1.00 (G-H-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

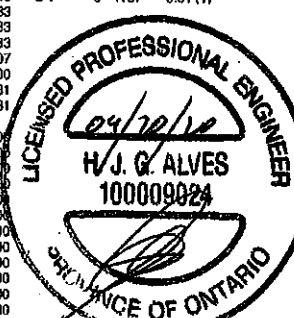
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 518 354 1687 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.54 (R) (INPUT = 0.90)
JSI METAL= 0.40 (R) (INPUT = 1.00)



Structural component only 1/2
DWG# T-2006487

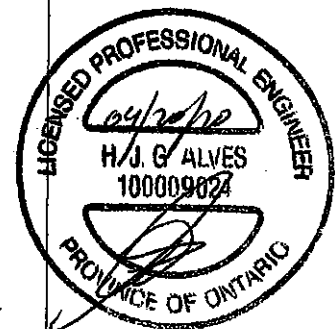
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FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	28-0-8	-457	-457	---	FRONT	VERT	TOTAL	---	C1
L	25-11-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
M	19-11-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
O	15-11-8	-28	-28	---	FRONT	VERT	TOTAL	---	C1
Q	11-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	19-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	21-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	23-11-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	1-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AB	3-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AC	7-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AD	9-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AE	13-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AF	17-11-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AG	21-11-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AH	23-11-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AI	27-11-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	29-11-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

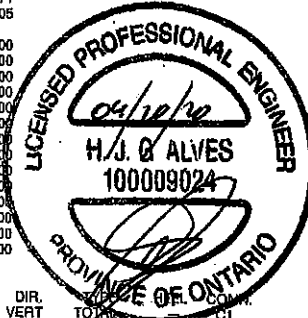


DRWG NO.

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Structural component only 1/2
DWG# T-2006488 CONTINUED ON



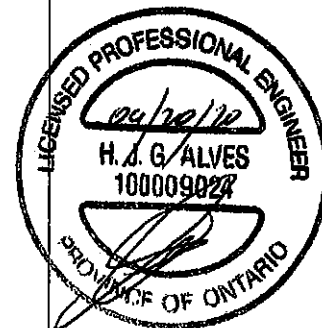
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	T21Z	1	2	GREEN PARK HOMES	
Framrack Roof Truss, Burlington				TRUSS DESC.	

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ID:QvHky48Q0cPQc Y353NoTWzlcKc-o7pP6f0cB7sYb0jRD862DiHvKBvE7sQDUbVwOzPtZO

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AA	17-9-4	-459	-459	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

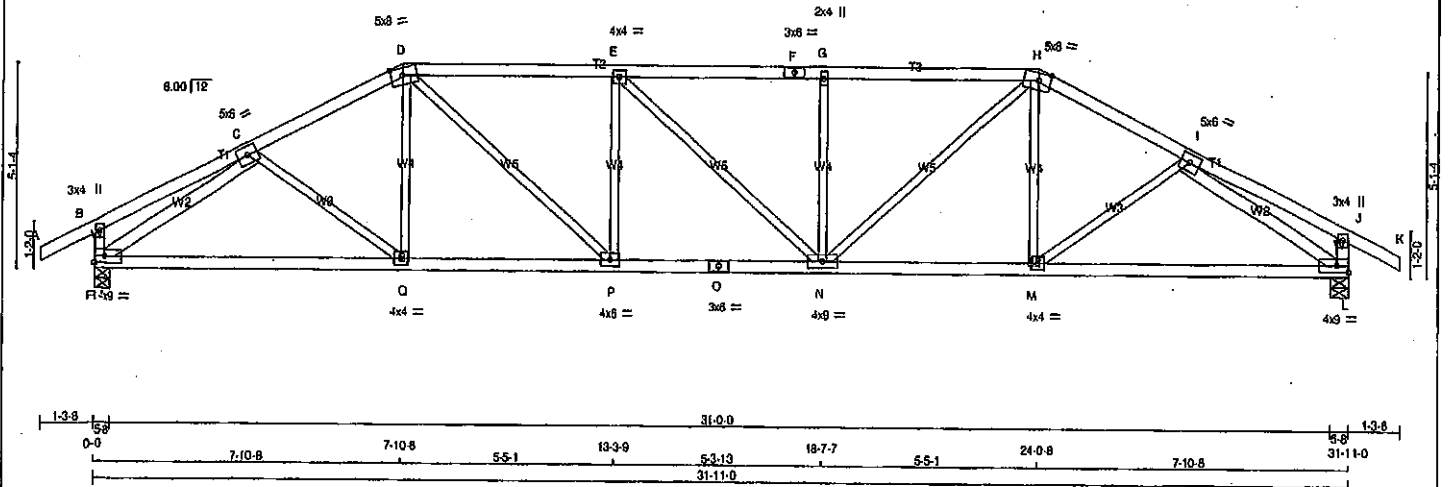


Structural component only
DWG# T-2006488

2/2

JOB NAME 408165	TRUSS NAME T22	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 M/Tek Industries, Inc. Fri Apr 17 08:44:21 2020 Page 1
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 1-3-8 0-0 4-0-8 4-0-8 3-10-0 7-10-8 5-5-1 13-3-9 5-3-13 18-7-7 5-5-1 24-0-8 3-10-0 27-10-8 4-0-8 31-11-0 1-3-8
 Scale = 1:52.8



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

DRY: SEASONED LUMBER.

PLATES (table 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
D	TTWW-m	MT20	5.0	8.0
E	TMVW-1	MT20	4.0	4.0
F	TS-1	MT20	3.0	6.0
G	TMVW-w	MT20	2.0	4.0
H	TTWW-m	MT20	5.0	8.0
I	TMVW-1	MT20	5.0	6.0
J	TMV+p	MT20	3.0	4.0
K	BMVW-1	MT20	4.0	9.0
L	BMVW-1	MT20	4.0	4.0
M	BMVW-1	MT20	4.0	9.0
N	BMVW-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	4.0	4.0
R	BMVW-1	MT20	4.0	9.0

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	IN-SX	IN-SX	
R	1884	0	1884	0	0	5-8	5-8
L	1884	0	1884	0	0	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1330	886/0	0/0	0/0	0/0	444/0	0/0
L	1330	886/0	0/0	0/0	0/0	444/0	0/0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (PLF)
FR-TO				FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	C-Q	0/74	0.03 (4)
B-C	0/17	-91.8	-91.8 0.20 (1)	10.00	Q-D	0/133	0.04 (4)
C-D	-2469/0	-91.8	-91.8 0.30 (1)	4.12	D-P	0/933	0.21 (1)
D-E	-2893/0	-91.8	-91.8 0.54 (1)	3.61	P-E	-534/0	0.21 (1)
E-F	-2891/0	-91.8	-91.8 0.53 (1)	3.61	E-N	-2/0	0.00 (1)
F-G	-2891/0	-91.8	-91.8 0.53 (1)	3.61	N-G	-533/0	0.21 (1)
G-H	-2891/0	-91.8	-91.8 0.53 (1)	3.61	H-N	0/931	0.21 (1)
H-I	-2489/0	-91.8	-91.8 0.30 (1)	4.12	M-H	0/134	0.04 (4)
I-J	0/17	-91.8	-91.8 0.20 (1)	10.00	M-I	0/74	0.03 (4)
J-K	0/28	-91.8	-91.8 0.12 (1)	10.00	R-C	-2668/0	0.74 (1)
K-B	-269/0	0.0	0.0 0.03 (1)	7.81	I-L	-2667/0	0.74 (1)
L-J	-269/0	0.0	0.0 0.03 (1)	7.81			
R-Q	0/2167	-18.5	-18.5 0.49 (1)	10.00			
Q-P	0/2194	-18.5	-18.5 0.48 (1)	10.00			
P-O	0/2893	-18.5	-18.5 0.53 (1)	10.00			
O-N	0/2893	-18.5	-18.5 0.53 (1)	10.00			
N-M	0/2194	-18.5	-18.5 0.49 (1)	10.00			
M-L	0/2168	-18.5	-18.5 0.49 (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 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.08")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
 ALLOWABLE DEFL.(TL) = L/360 (1.08")
 CALCULATED VERT. DEFL.(TL) = L/989 (0.29")

CSI: TC=0.54/1.00 (D-E:1), BC=0.53/1.00 (N-P:1),
 WS=0.74/1.00 (I-L:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

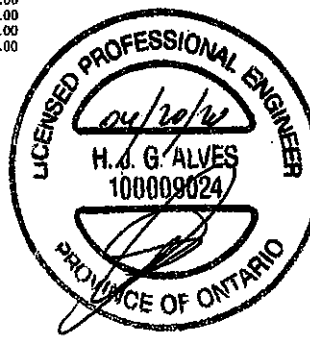
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (C) (INPUT = 0.90)
 JSI METAL= 0.94 (C) (INPUT = 1.00)

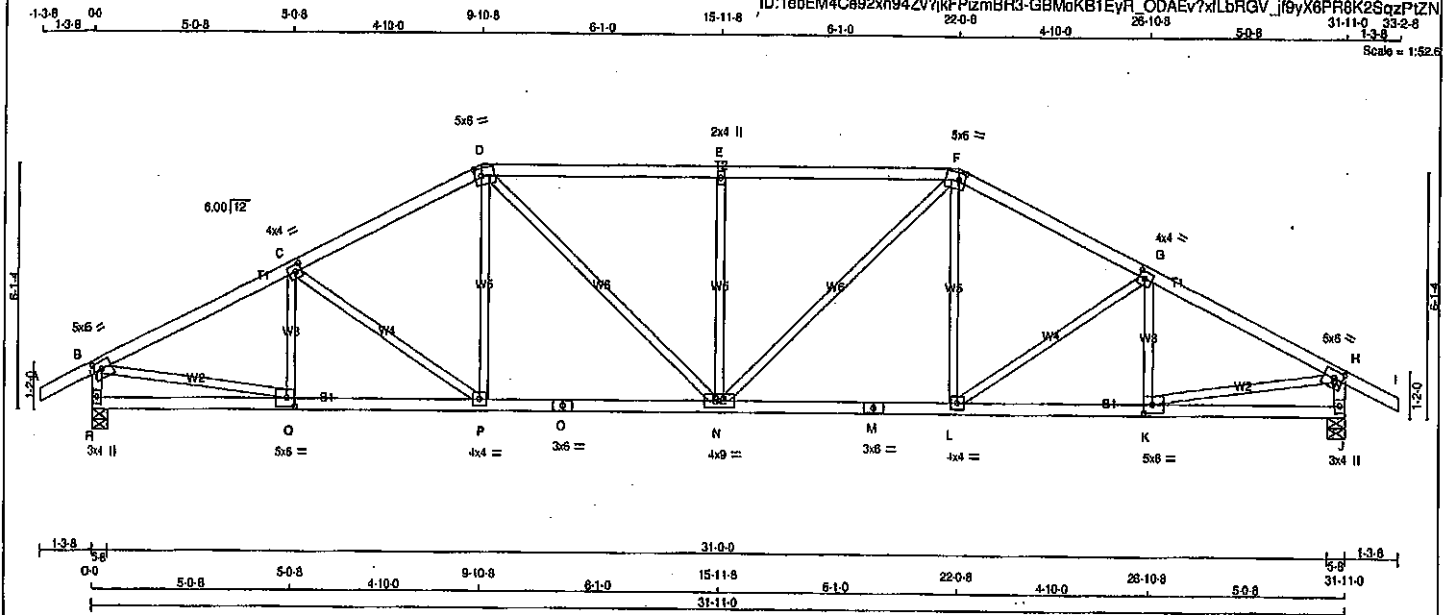


Structural component only
 DWG# T-2006489

JOB NAME 408165	TRUSS NAME T23	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:1ebEM4Ca92xn94Zv7jkFPizmBR3-GBMokB1EyR_ODAEv?xLbRGV_jf9yX6PR8K2SqzPtZN



TOTAL WEIGHT = 136 LBS
[MIF]

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCO 2010, NBCO 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
- TPGC 2011, TPGC 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.(L) = $L/360$ (1.08")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.12")
ALLOWABLE DEFL.(TL) = $L/360$ (1.08")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.21")

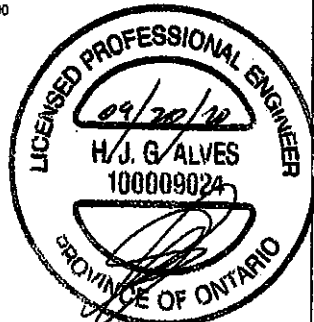
CSI: TC=0.55/1.00 (G-H:1), BC=0.44/1.00 (K-M:1),
WB=0.53/1.00 (H-K:1), S9=0.24/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSH)	(SPI.B)	(SPI.A)	(SPI.A)

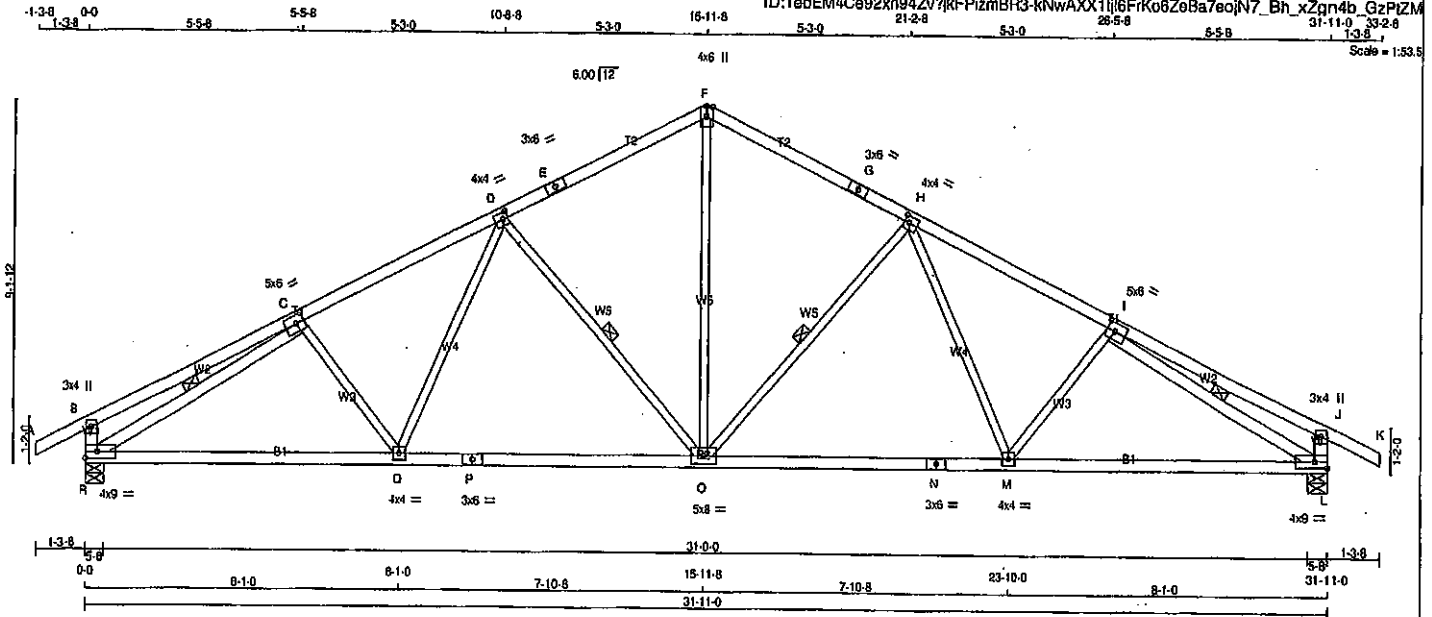


Structural component only
DWG# T-2006491

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	T26	8	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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ID:1ebEM4C892xn94Zv?kFpizmBR3-kNwAXX1j16FrK08ZeBa7eoN7_Bh_xZgn4b_GzPlZM



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

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

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

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

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

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE
R	1330	886 / 0	0 / 0	0 / 0
L	1330	886 / 0	0 / 0	0 / 0

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

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-O, D-O, C-R, I-L.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MEMB.		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX	CS1 (LC)
FR-TO		FROM	TO			FR-TO			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-F	0 / 1211	0.27 (1)	
B-C	0 / 20	-91.8	-91.8	0.33 (1)	10.00	C-H	-701 / 0	0.32 (1)	
C-D	-2428 / 0	-91.8	-91.8	0.37 (1)	4.11	H-M	0 / 312	0.07 (1)	
D-E	-1808 / 0	-91.8	-91.8	0.34 (1)	4.65	M-I	-158 / 21	0.06 (1)	
E-F	-1808 / 0	-91.8	-91.8	0.34 (1)	4.65	D-O	-701 / 0	0.32 (1)	
F-G	-1808 / 0	-91.8	-91.8	0.34 (1)	4.65	C-Q	0 / 312	0.07 (1)	
G-H	-1808 / 0	-91.8	-91.8	0.34 (1)	4.65	C-Q	-168 / 21	0.05 (1)	
H-I	-2428 / 0	-91.8	-91.8	0.37 (1)	4.11	R-C	-2717 / 0	0.55 (1)	
I-J	0 / 20	-91.8	-91.8	0.33 (1)	10.00	I-L	-2717 / 0	0.55 (1)	
J-K	0 / 28	-91.8	-91.8	0.12 (1)	10.00				
R-B	-325 / 0	0.0	0.0	0.03 (1)	7.81				
L-J	-325 / 0	0.0	0.0	0.03 (1)	7.81				
R-Q	0 / 2268	-18.5	-18.5	0.51 (1)	10.00				
Q-P	0 / 2051	-18.5	-18.5	0.48 (1)	10.00				
P-O	0 / 2051	-18.5	-18.5	0.48 (1)	10.00				
O-N	0 / 2051	-18.5	-18.5	0.48 (1)	10.00				
N-M	0 / 2051	-18.5	-18.5	0.48 (1)	10.00				
M-L	0 / 2268	-18.5	-18.5	0.51 (1)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

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

ALLOWABLE DEFL.(LL) = L/980 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CS: TC=0.371/0.0 (H-I), BC=0.51/1.00 (L-M), WB=0.55/1.00 (H-L), SSI=0.20/1.00 (I-J)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

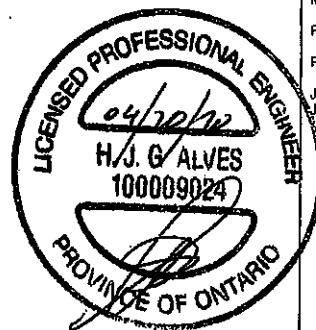
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1997 1656

PLATE PITCHMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (I) (INPUT = 0.90)
JSI METAL= 0.67 (I) (INPUT = 1.00)



Structural component only
DWG# T-2006493

JOB NAME 408164	TRUSS NAME T27	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

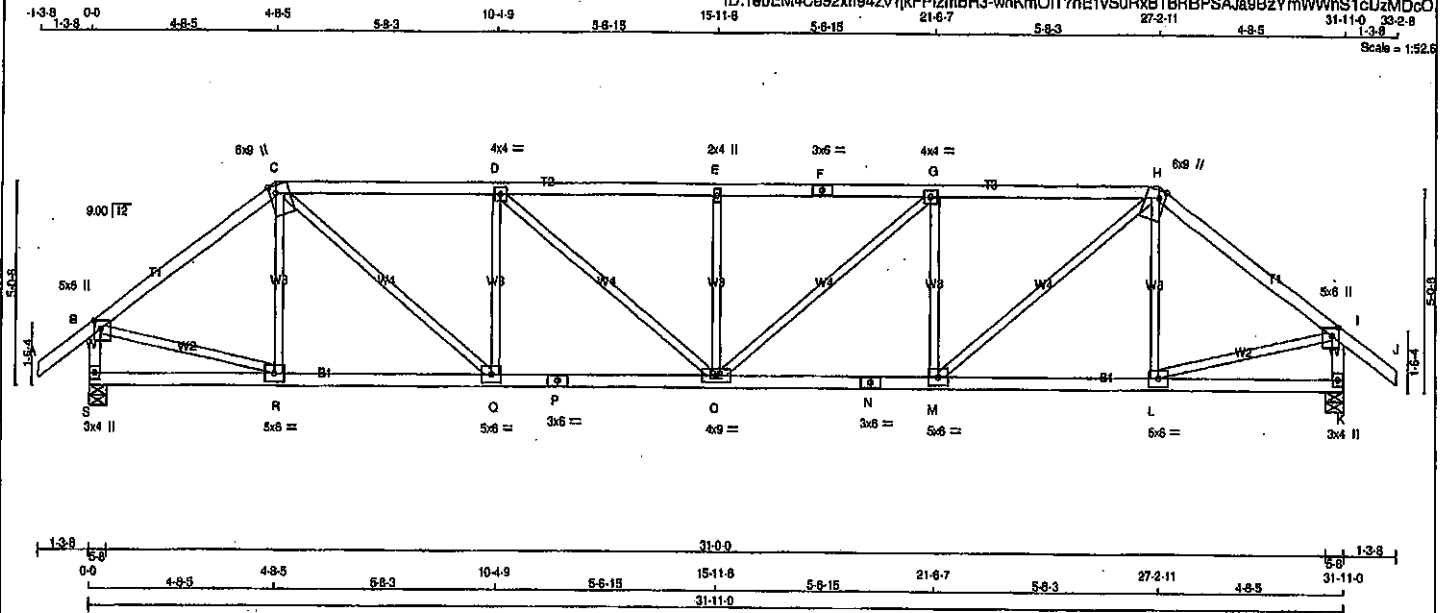
Tamarack Roof Truss, Burlington

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ID:1ebEM4Ce92xn94Zv7kFpzmBR3-wnKmOI17nE1vSuRxBTBRBPSAJa9BzYmWWHs1cUzMDcO

31-11-0 33-2-8

Scale = 1:52.6



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

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	5.0	6.0 2.50 2.00
C	TTWW+m	MT20	6.0	9.0 Edge 2.00
D	TMVW-l	MT20	4.0	4.0
E	TMVW-w	MT20	2.0	4.0
F	TS-l	MT20	3.0	6.0
G	TMVW-l	MT20	4.0	4.0
H	TTWW+m	MT20	6.0	9.0 Edge 2.00
I	TMVW+p	MT20	5.0	6.0 2.50 2.00
K	BMV1+p	MT20	3.0	4.0
L, M, Q, R				
L	BMVW-l	MT20	6.0	6.0
N	BS-l	MT20	3.0	6.0
O	BMVW-w	MT20	4.0	9.0
P	BS-l	MT20	3.0	6.0
S	BMV1+p	MT20	3.0	4.0

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
S	1888	0	1888	0	5-8
K	1888	0	1888	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
S	1331	887 / 0	0 / 0
K	1331	887 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, K
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.42 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO			
A-B	0 / 38	-91.8 -91.8 0.12 (1)	10.00
B-C	-1888 / 0	-91.8 -91.8 0.45 (1)	4.42
C-D	-2884 / 0	-91.8 -91.8 0.61 (1)	3.65
D-E	-3002 / 0	-91.8 -91.8 0.65 (1)	3.42
E-F	-3002 / 0	-91.8 -91.8 0.65 (1)	3.42
F-G	-3002 / 0	-91.8 -91.8 0.65 (1)	3.42
G-H	-2884 / 0	-91.8 -91.8 0.61 (1)	3.65
H-I	-1888 / 0	-91.8 -91.8 0.45 (1)	4.42
I-J	0 / 38	-91.8 -91.8 0.12 (1)	10.00
S-B	-1852 / 0	0.0 0.0 0.18 (1)	8.16
K-I	-1852 / 0	0.0 0.0 0.18 (1)	8.16
S-R	0 / 0	-18.5 -18.5 0.12 (4)	10.00
R-Q	0 / 1500	-18.5 -18.5 0.31 (1)	10.00
Q-P	0 / 2865	-18.5 -18.5 0.48 (1)	10.00
P-O	0 / 2865	-18.5 -18.5 0.48 (1)	10.00
O-N	0 / 2865	-18.5 -18.5 0.48 (1)	10.00
N-M	0 / 2865	-18.5 -18.5 0.48 (1)	10.00
M-L	0 / 1500	-18.5 -18.5 0.31 (1)	10.00
L-K	0 / 0	-18.5 -18.5 0.12 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 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 (1.08")
CALCULATED VERT. DEFL. (LL) = L/999 (0.15")
ALLOWABLE DEFL. (TL) = L/360 (1.08")
CALCULATED VERT. DEFL. (TL) = L/999 (0.28")

CSI: TO=0.85/1.00 (D-E:1), BC=0.48/1.00 (O-Q:1), WB=0.35/1.00 (B-R:1), SS=0.24/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

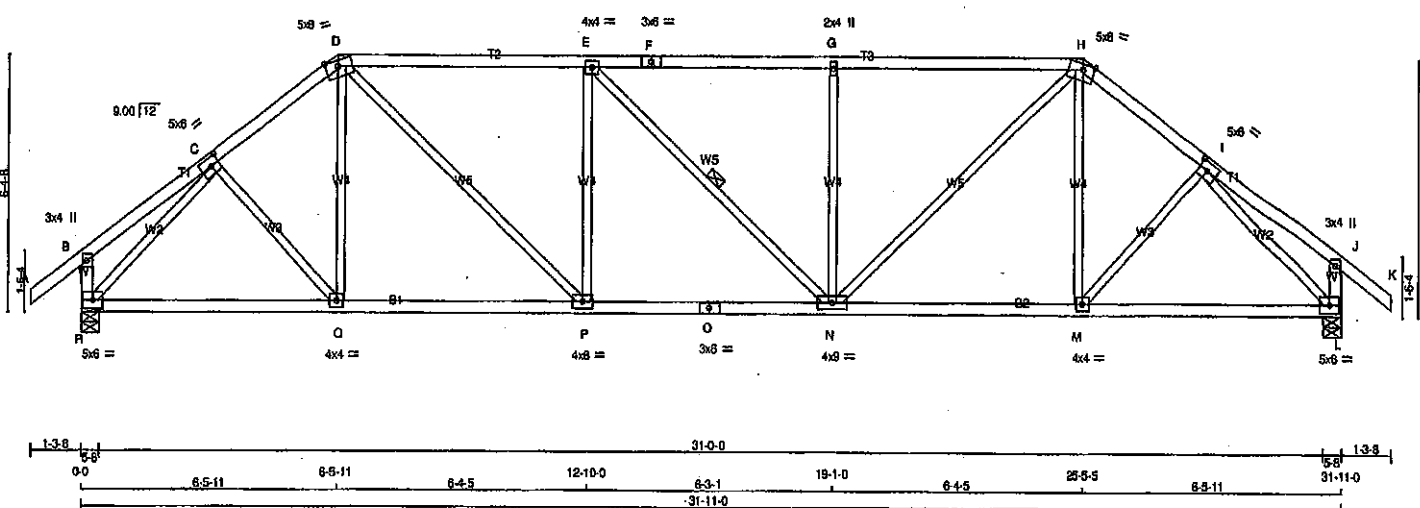
JSI GRIP = 0.90 (B) (INPUT = 0.90)
JSI METAL = 0.91 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007733

JOB NAME: 408164	TRUSS NAME: T28	QUANTITY: 2	PLY: 1	JOB DESC.: GREEN PARK HOMES	DRWG NO.:
Tamarack Roof Truss, Burlington				TRUSS DESC.:	

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 ID:1ebEM4Ce92xm94Zv7ikFPizmBR3-O_u8ca2dYY9m3207kAljd_KR_W9iu5gILBb6wzMDcN
 13-8 0-0 3-4-1 3-1-9 6-5-11 8-4-5 12-10-0 6-3-1 19-1-0 6-4-5 25-5-5 3-1-9 28-6-10 3-4-1 31-11-0 33-2-8
 Scale = 1:52.5



TOTAL WEIGHT = 2 X 137 = 274 lb

LUMBER

N. L. G. A. RULES

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

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	5.0	8.0	2.50	2.75
D	TTWW-m	MT20	5.0	8.0	Edge	3.50
E	TMWW-I	MT20	4.0	4.0		
F	TS-I	MT20	3.0	6.0		
G	TMW+w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	8.0	Edge	3.50
I	TMWW-I	MT20	5.0	8.0	2.50	2.75
J	TMV+p	MT20	3.0	4.0		
L	BMVW-I	MT20	5.0	6.0		
M	BMVW-I	MT20	4.0	4.0		
N	BMVW-I	MT20	4.0	4.0		
O	BS-I	MT20	3.0	6.0		
P	BMVW-I	MT20	4.0	6.0		
Q	BMVW-I	MT20	4.0	4.0		
R	BMVW-I	MT20	5.0	6.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
R	1886	0	1886	0	5-8	5-8
L	1886	0	1886	0	5-8	5-8

UNFACTORED REACTIONS								
	1ST LOASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
R	1331	887/0	0/0	0/0	0/0	0/0	444/0	0/0
L	1331	887/0	0/0	0/0	0/0	0/0	444/0	0/0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.78 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.

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)

MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0/38	-91.8	-91.8 0.12 (1)	10.00	C-Q	0/131	0.03 (4)
B-C	0/18	-91.8	-91.8 0.13 (1)	10.00	Q-D	0/89	0.03 (4)
C-D	-1910/0	-91.8	-91.8 0.18 (1)	4.71	D-P	0/1071	0.24 (1)
D-E	-2288/0	-91.8	-91.8 0.89 (1)	3.78	P-E	-827/0	0.41 (1)
E-F	-2284/0	-91.8	-91.8 0.88 (1)	3.79	E-N	-2/0	0.00 (1)
F-G	-2284/0	-91.8	-91.8 0.88 (1)	3.79	N-G	-827/0	0.41 (1)
G-H	-2284/0	-91.8	-91.8 0.88 (1)	3.80	N-H	0/1089	0.24 (1)
H-I	-1910/0	-91.8	-91.8 0.18 (1)	4.71	M-H	0/58	0.03 (4)
I-J	0/18	-91.8	-91.8 0.13 (1)	10.00	M-I	0/131	0.03 (4)
J-K	0/38	-91.8	-91.8 0.12 (1)	10.00	R-C	-2134/0	0.79 (1)
R-B	-245/0	0.0	0.0 0.03 (1)	7.81	I-L	-2134/0	0.79 (1)
L-J	-245/0	0.0	0.0 0.03 (1)	7.81			
R-Q	0/1420	-18.5	-18.5 0.33 (1)	10.00			
Q-P	0/1510	-18.5	-18.5 0.35 (1)	10.00			
P-O	0/2288	-18.5	-18.5 0.43 (1)	10.00			
O-N	0/2288	-18.5	-18.5 0.43 (1)	10.00			
N-M	0/1511	-18.5	-18.5 0.35 (1)	10.00			
M-L	0/1421	-18.5	-18.5 0.33 (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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, CBC 2012, ABC 2010
 - PART 9 OF CBC 2012 (2019 AMENDMENT)
 - CSA 086-09, CSA 086-14
 - TPO 2011, TPO 2014

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

ALLOWABLE DEFL.(LL) = L/380 (1.08")
 CALCULATED VERT. DEFL.(LL) = L/899 (0.10")
 ALLOWABLE DEFL.(TL) = L/380 (1.08")
 CALCULATED VERT. DEFL.(TL) = L/899 (0.21")

CSK: TC=0.89/1.00 (D-E:1), BC=0.43/1.00 (N-P:1), WB=0.79/1.00 (H:1), SS=0.27/1.00 (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 (PS) (PL)
 MAX MIN MAX MIN
 MT20 618 354 1667 768 1987 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (L) (INPUT = 0.90)
 JSI METAL = 0.78 (O) (INPUT = 1.00)

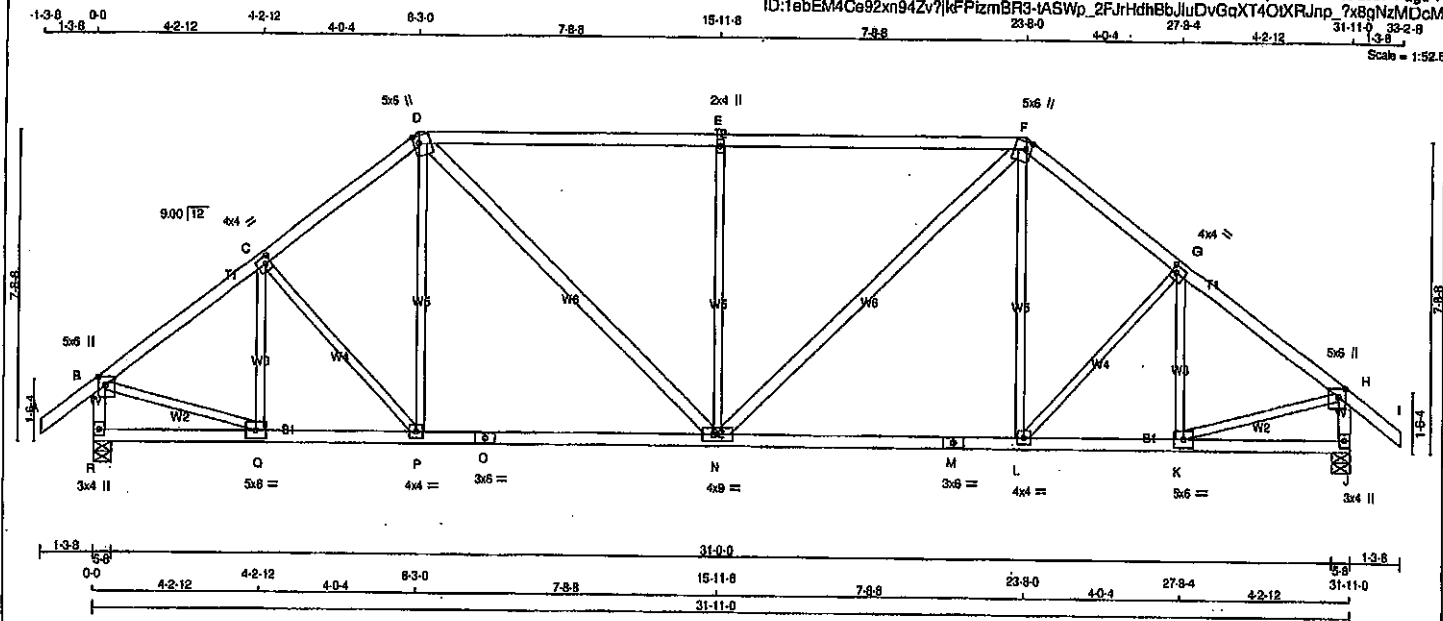


Structural component only
 DWG# T-2007734

JOB NAME 408164	TRUSS NAME T29	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Yamarc Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.50 2.08
C	TMVW-t	MT20	4.0	4.0	2.00 1.50
D	TTVW+m	MT20	5.0	6.0	2.25 1.50
E	TMVW-w	MT20	2.0	4.0	
F	TTVW+m	MT20	6.0	6.0	2.25 1.50
G	TMVW-t	MT20	4.0	4.0	2.00 1.50
H	TMVW+p	MT20	5.0	6.0	2.50 2.00
J	BMVt+p	MT20	3.0	4.0	
K	BMVW-t	MT20	5.0	6.0	
L	BMVW-t	MT20	4.0	4.0	
M	BS-t	MT20	3.0	6.0	
N	BMVWVW-t	MT20	4.0	9.0	
O	BS-t	MT20	3.0	6.0	
P	BMVW-t	MT20	4.0	4.0	
Q	BMVW-t	MT20	5.0	6.0	
R	BMVt+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		INPUT	
		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
JT		1888	0	1888	0	0	5-8
R		1888	0	1888	0	0	5-8
J		1888	0	1888	0	0	5-8

UNFACTORED REACTIONS

1ST CASE MAX. MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1931	887/0	0/0	0/0	0/0	444/0	0/0
J	1931	887/0	0/0	0/0	0/0	444/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
A-B	0/38	-91.8 -91.8 0.12 (1)	10.00	Q-C	-384/0	0.12 (1)	
B-C	-1877/0	-91.8 -91.8 0.24 (1)	4.69	C-P	-87/0	0.05 (1)	
C-D	-1858/0	-91.8 -91.8 0.24 (1)	4.71	P-D	0/182	0.05 (4)	
D-E	-1985/0	-91.8 -91.8 0.82 (1)	3.61	D-N	0/736	0.12 (1)	
E-F	-1985/0	-91.8 -91.8 0.82 (1)	3.61	N-E	-87/0	0.06 (1)	
F-G	-1858/0	-91.8 -91.8 0.24 (1)	4.71	N-F	0/736	0.12 (1)	
G-H	-1877/0	-91.8 -91.8 0.24 (1)	4.69	L-F	0/182	0.05 (4)	
H-I	0/38	-91.8 -91.8 0.12 (1)	10.00	L-G	-87/0	0.05 (1)	
R-B	-1849/0	0.0 0.0 0.19 (1)	6.18	K-G	-384/0	0.12 (1)	
J-H	-1849/0	0.0 0.0 0.19 (1)	6.18	B-Q	0/1581	0.36 (1)	
R-Q	0/0	-18.5 -18.5 0.08 (4)	10.00	K-H	0/1581	0.36 (1)	
Q-P	0/1522	-18.5 -18.5 0.33 (1)	10.00				
P-O	0/1455	-18.5 -18.5 0.36 (1)	10.00				
O-N	0/1455	-18.5 -18.5 0.36 (1)	10.00				
N-M	0/1455	-18.5 -18.5 0.36 (1)	10.00				
M-L	0/1455	-18.5 -18.5 0.36 (1)	10.00				
L-K	0/1522	-18.5 -18.5 0.33 (1)	10.00				
K-J	0/0	-18.5 -18.5 0.08 (4)	10.00				

TOTAL WEIGHT = 2 X 147 = 295 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 2.00/12 MINIMUM

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

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

(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 (1.08")
CALCULATED VERT. DEFL. (LL) = L/899 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (1.08")
CALCULATED VERT. DEFL. (TL) = L/989 (0.17")

CSI: TC=0.82/1.00 (D-E:1), BC=0.38/1.00 (N-P:1),
WB=0.99/1.00 (E-N:1), SS=0.34/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

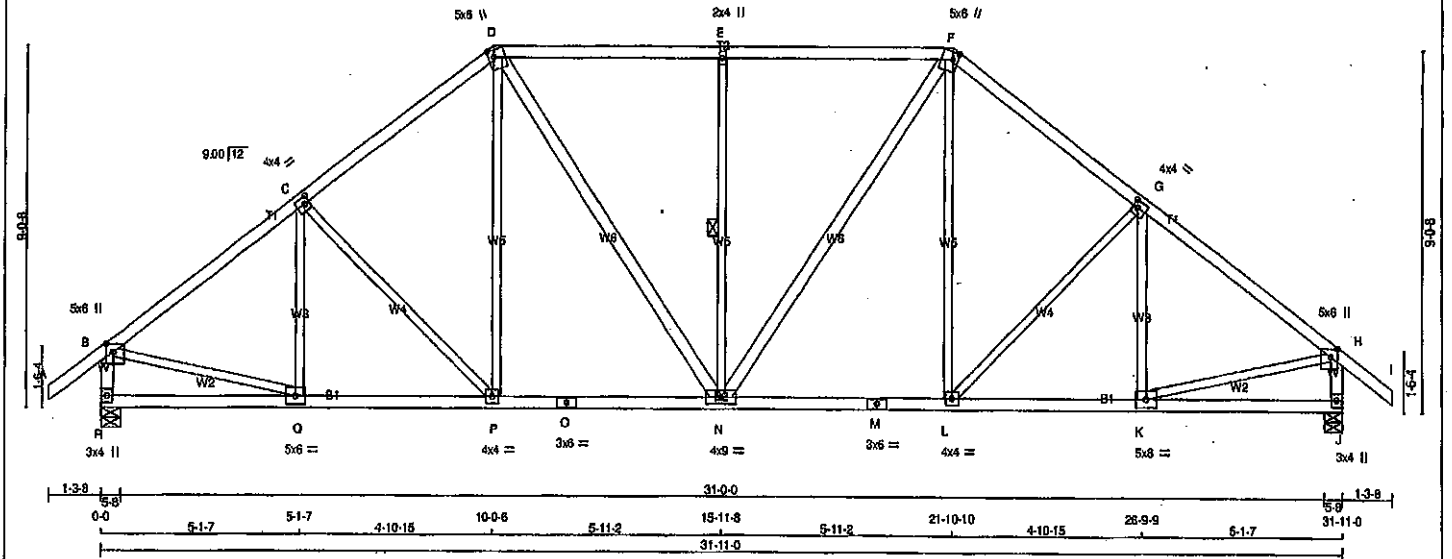
JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.48 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007735

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408164	T30	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:tebEM4Ce92xn94Zv7jkFPizmbR3-LMou1J3I49PUJLAVsbk8o24jboEYAvKyDghDpzMDcL
 31-11-0 33-2-6 1-3-8
 Scale = 1:53.1



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMWW+p	MT20	5.0	6.0	2.50	2.00
C	TMWW-i	MT20	4.0	4.0	2.00	1.50
D	TTWW+m	MT20	5.0	6.0	2.25	1.50
E	TMWW+w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.25	1.50
G	TMWW-i	MT20	4.0	4.0	2.00	1.50
H	TMWW+p	MT20	5.0	6.0	2.50	2.00
J	BMV1+p	MT20	3.0	4.0		
K	BMWW-i	MT20	5.0	6.0		
L	BS-1	MT20	4.0	4.0		
M	BS-1	MT20	4.0	4.0		
N	BS-1	MT20	4.0	4.0		
O	BS-1	MT20	3.0	6.0		
P	BMWW-i	MT20	4.0	4.0		
Q	BMWW-i	MT20	5.0	6.0		
R	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
R	1886	0	1886	0
J	1886	0	1886	0

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1331	887 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0
J	1331	887 / 0	0 / 0	0 / 0	0 / 0	444 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.52 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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 HORZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)
A-B	0 / 38	-91.8	-91.8	0.12 (1)	10.00	Q-C	-268 / 0	0.11 (1)	
B-C	-1923 / 0	-91.8	-91.8	0.38 (1)	4.52	C-D	-249 / 0	0.24 (1)	
C-D	-1772 / 0	-91.8	-91.8	0.34 (1)	4.88	D-E	0 / 277	0.08 (1)	
D-E	-1655 / 0	-91.8	-91.8	0.48 (1)	4.83	E-F	0 / 469	0.08 (1)	
E-F	-1655 / 0	-91.8	-91.8	0.48 (1)	4.83	F-G	-868 / 0	0.35 (1)	
F-G	-1772 / 0	-91.8	-91.8	0.34 (1)	4.88	G-H	0 / 469	0.08 (1)	
G-H	-1923 / 0	-91.8	-91.8	0.38 (1)	4.52	H-I	0 / 277	0.08 (1)	
H-I	0 / 38	-91.8	-91.8	0.12 (1)	10.00	I-J	-249 / 0	0.24 (1)	
J-K	-1845 / 0	0.0	0.0	0.19 (1)	6.16	K-L	-268 / 0	0.11 (1)	
K-L	-1845 / 0	0.0	0.0	0.19 (1)	6.16	L-M	0 / 1608	0.38 (1)	
M-N	0 / 0	-18.5	-18.5	0.10 (4)	10.00	N-O	0 / 1608	0.38 (1)	
O-P	0 / 1564	-18.5	-18.5	0.31 (1)	10.00	P-Q			
Q-R	0 / 1391	-18.5	-18.5	0.29 (1)	10.00	R-S			
S-T	0 / 1391	-18.5	-18.5	0.29 (1)	10.00	T-U			
U-V	0 / 1391	-18.5	-18.5	0.29 (1)	10.00	V-W			
W-X	0 / 1391	-18.5	-18.5	0.29 (1)	10.00	X-Y			
Y-Z	0 / 1564	-18.5	-18.5	0.31 (1)	10.00	Z-A			
A-B	0 / 0	-18.5	-18.5	0.10 (4)	10.00	B-C			

DESIGN CRITERIA

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

SPACING = 24.0 IN. G.C.

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

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, OBC 2012, ABC 2019
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 088-09, CSA 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 (1.08")
 CALCULATED VERT. DEFL.(LL) = 1/899 (0.07")
 ALLOWABLE DEFL.(TL) = L/360 (1.08")
 CALCULATED VERT. DEFL.(TL) = 1/899 (0.13")

CSI: TC=0.48/1.00 (E-F:1), BC=0.31/1.00 (P-Q:1), WB=0.38/1.00 (B-C:1), SS=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

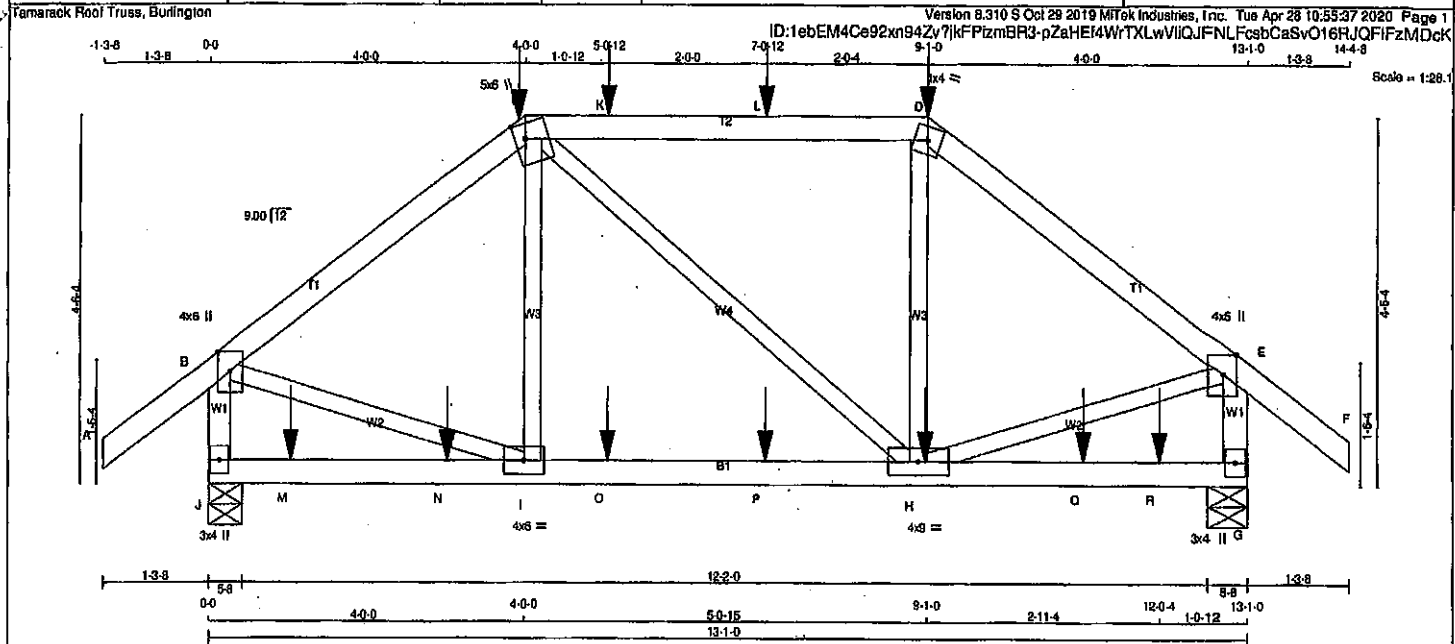
PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
 DWG# T-2007736

JOB NAME 408164	TRUSS NAME T31	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Tue Apr 28 10:55:27 2020 Page 1			



TOTAL WEIGHT = 56 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 - F	2x4	DRY	No.2		SPF
J - B	2x4	DRY	No.2		SPF
G - E	2x4	DRY	No.2		SPF
J - G	2x4	DRY	No.2		SPF

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+P	MT20	4.0	6.0	Edge	
C	TTWV+m	MT20	5.0	8.0	2.25	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMVW+P	MT20	4.0	6.0	Edge	
G	BMV+P	MT20	3.0	4.0		
H	BMVWV-1	MT20	4.0	9.0		
I	BMVWV-1	MT20	4.0	6.0		
J	BMV+P	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
J	1153	0	1153	0
G	1177	0	1177	0

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
J	813	547 / 0
G	831	558 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.63 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 / 38	-91.8 -91.8 0.14 (1)	I-C	-89 / 84
B-C	-962 / 0	-91.8 -91.8 0.30 (1)	C-H	0 / 25
C-K	-785 / 0	-91.8 -91.8 0.83 (1)	H-D	-117 / 61
K-L	-785 / 0	-91.8 -91.8 0.83 (1)	B-I	0 / 800
L-D	-785 / 0	-91.8 -91.8 0.83 (1)	H-E	0 / 820
D-E	-987 / 0	-91.8 -91.8 0.30 (1)		0.20 (1)
E-F	0 / 38	-91.8 -91.8 0.14 (1)		
J-B	-1113 / 0	0.0 0.0 0.13 (1)		7.48
G-E	-1133 / 0	0.0 0.0 0.13 (1)		7.43
J-M	0 / 0	-18.5 -18.5 0.13 (4)		10.00
M-N	0 / 0	-18.5 -18.5 0.13 (4)		10.00
N-I	0 / 0	-18.5 -18.5 0.13 (4)		10.00
I-O	0 / 768	-18.5 -18.5 0.20 (1)		10.00
O-P	0 / 768	-18.5 -18.5 0.20 (1)		10.00
P-H	0 / 768	-18.5 -18.5 0.20 (1)		10.00
H-Q	0 / 0	-18.5 -18.5 0.13 (4)		10.00
Q-R	0 / 0	-18.5 -18.5 0.13 (4)		10.00
R-G	0 / 0	-18.5 -18.5 0.13 (4)		10.00

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-0	-31	-35	---	---	FRONT	VERT.	DEAD	---	C1
C	4-0-0	-135	-135	---	---	FRONT	VERT.	SNOW	---	C1
D	9-1-0	-31	-35	---	---	FRONT	VERT.	DEAD	---	C1
D	9-1-0	-74	-74	---	---	BACK	VERT.	TOTAL	---	C1
D	9-1-0	-135	-135	---	---	FRONT	VERT.	SNOW	---	C1
H	9-0-12	-13	-13	---	---	BACK	VERT.	TOTAL	---	C1
K	5-0-12	-67	-67	---	---	BACK	VERT.	TOTAL	---	C1
L	7-0-12	-67	-67	---	---	BACK	VERT.	TOTAL	---	C1
M	1-0-12	-13	-13	---	---	BACK	VERT.	TOTAL	---	C1
N	3-0-12	-13	-13	---	---	BACK	VERT.	TOTAL	---	C1
O	5-0-12	-13	-13	---	---	BACK	VERT.	TOTAL	---	C1
P	7-0-12	-13	-13	---	---	BACK	VERT.	TOTAL	---	C1
Q	11-0-12	-13	-13	---	---	BACK	VERT.	TOTAL	---	C1
R	12-0-4	-13	-13	---	---	BACK	VERT.	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

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

SPACING = 24.0 IN. C/C

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

*** 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 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 (0.44")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.44")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.83/1.00 (C-D:1), BC=0.20/1.00 (H-I:1), WB=0.20/1.00 (E-H:1), SSI=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

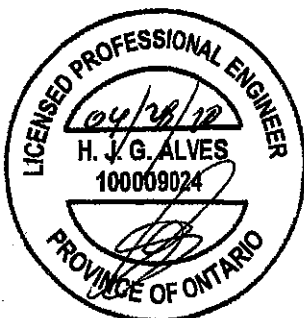
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 810 354 1887 789 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

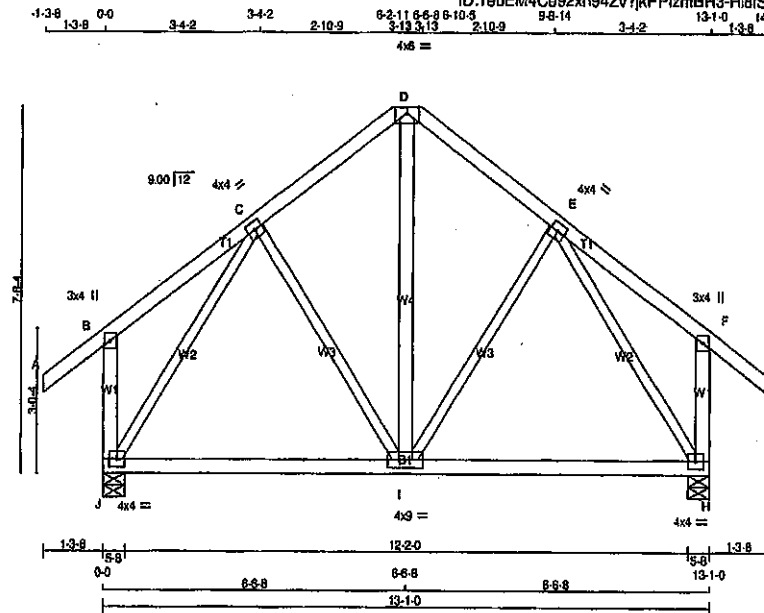
JSI GRIP=0.83 (E) (INPUT = 0.90)
JSI METAL=0.52 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007737

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408164	T32	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:1ebEM4C92x94Zv?kFPlzmBR3-Hi8S758cmfCYIKuz20mcuT98kbwte03Fgz9oHizMDol
Scale = 1:44.6



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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMV+p MT20 3.0 4.0				
C TMWW+ MT20 4.0 4.0				
D TMTMWm MT20 4.0 5.0 Edge				
E TMWW+ MT20 4.0 4.0				
F TMV+p MT20 3.0 4.0				
H BMVW+ MT20 4.0 4.0				
I BMVW+ MT20 4.0 5.0				
J BMVW+ MT20 4.0 4.0				

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG	
JT VERT HORZ	DOWN HORZ UPLIFT	IN-SX	IN-SX	
J 848 0	848 0 0	5-8	5-8	
H 848 0	848 0 0	5-8	5-8	

UNFACTORED REACTIONS							
1ST LOSE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SC
J	597	405 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0
H	597	405 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0

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

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

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

LOADING

CHORDS	MEMB.	MAX. FACTORED	VERT. LOAD	LOI	MAX	MAX.	MEMB.	MAX. FACTORED	VERT. LOAD	LOI	MAX
FR-TO	FROM	TO	FROM	TO	FROM	TO	FR-TO	FROM	TO	FROM	TO
A-B	0 / 38	-91.8	-91.8	0.12 (1)	10.00	I-D	0 / 253	0.04 (1)			
B-C	0 / 21	-91.8	-91.8	0.16 (1)	10.00	C-I	-61 / 19	0.04 (1)			
C-D	-424 / 0	-91.8	-91.8	0.12 (1)	6.25	I-E	-61 / 19	0.04 (1)			
D-E	-424 / 0	-91.8	-91.8	0.12 (1)	6.25	J-C	-663 / 0	0.41 (1)			
E-F	0 / 21	-91.8	-91.8	0.16 (1)	10.00	E-H	-663 / 0	0.41 (1)			
F-G	0 / 38	-91.8	-91.8	0.12 (1)	10.00						
J-B	-242 / 0	0.0	0.0	0.04 (1)	7.81						
H-F	-242 / 0	0.0	0.0	0.04 (1)	7.81						
J-I	0 / 356	-18.5	-18.5	0.26 (4)	10.00						
I-H	0 / 356	-18.5	-18.5	0.26 (4)	10.00						

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 0.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.44")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.44")
CALCULATED VERT. DEFL. (TL) = L/999 (0.04")

CSI: TO=0.10/1.00 (E-F:1), BC=0.20/1.00 (H-I:4), WB=0.41/1.00 (C-J:1), SS=0.12/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

MAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(P.S.) (P.L.) (P.L.)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 789 1987 1656

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.77 (C) (INPUT = 0.90)
JSI METAL = 0.23 (C) (INPUT = 1.00)



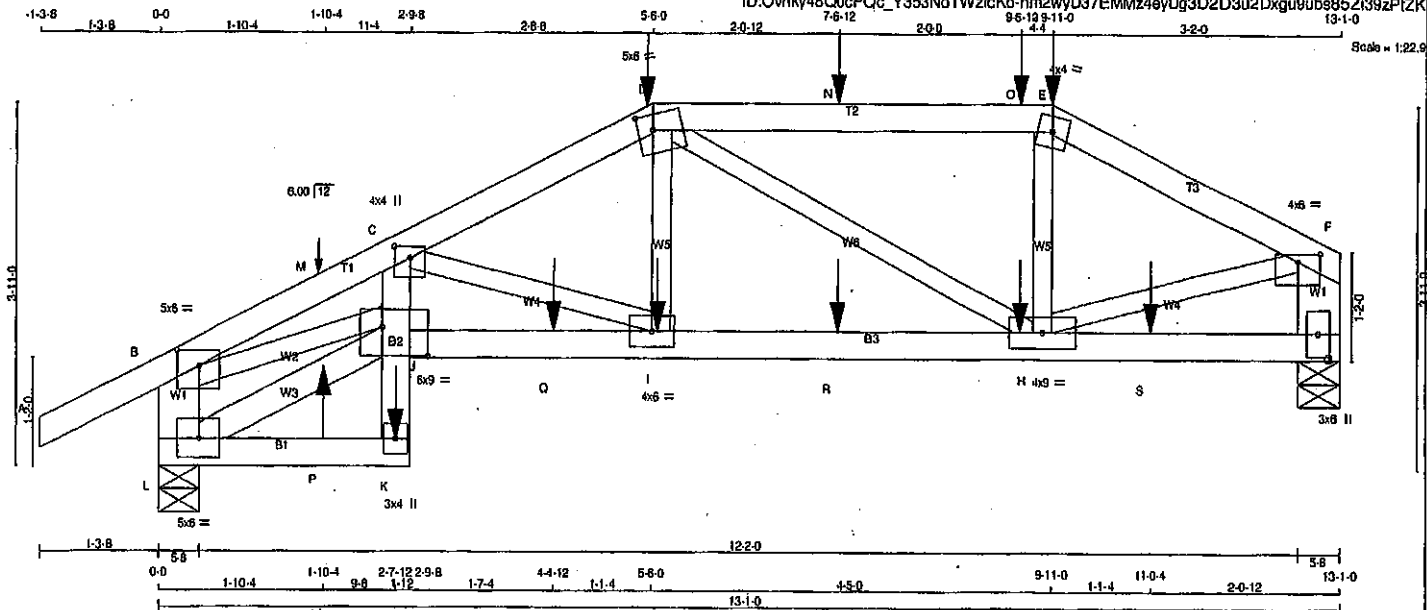
Structural component only
DWG# T-2007738

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408165	T33S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 54 lb

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	2.00	3.00
C	TMVW-p	MT20	4.0	4.0	1.50	2.00
D	TTWV-m	MT20	5.0	6.0	2.00	2.00
E	TTW-m	MT20	4.0	4.0		
F	TMVW-p	MT20	4.0	6.0	1.00	3.00
G	BMV1-p	MT20	3.0	8.0		
H	BMVWV-1	MT20	4.0	9.0		
I	BMVWV-1	MT20	4.0	8.0		
J	BMVWV-1	MT20	6.0	9.0	3.75	8.00
K	BMV-p	MT20	3.0	4.0		
L	BMVWV-1	MT20	5.0	8.0		

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	UP/LT	IN-SX
G	1008	0	1008	0
L	1158	0	1158	0

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	711	480 / 0	0 / 0	0 / 0	0 / 0	231 / 0	0 / 0
L	814	580 / 0	0 / 0	0 / 0	0 / 0	254 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX.	MEMB.	MAX. FACTORED	FACTORED	MAX.
	FORCE	VERT. LOAD	CS1 (LC)		FORCE	CS1 (LC)	
FR-TO	FROM	TO	LENGTH	FR-TO	FROM	TO	LENGTH
A-B	0 / 28	-91.8	-91.8 0.13 (1)	10.00	C-I	-399 / 0	0.20 (1)
B-M	-2420 / 0	-91.8	-91.8 0.21 (1)	4.21	I-D	0 / 396	0.10 (1)
M-C	-2420 / 0	-91.8	-91.8 0.21 (1)	4.21	D-H	-399 / 0	0.16 (1)
C-D	-1598 / 0	-91.8	-91.8 0.18 (1)	5.02	H-E	0 / 77	0.03 (4)
D-N	-1106 / 0	-91.8	-91.8 0.41 (1)	5.41	E-F	0 / 1141	0.28 (1)
N-O	-1106 / 0	-91.8	-91.8 0.41 (1)	5.41	F-G	-143 / 0	0.02 (1)
O-E	-1106 / 0	-91.8	-91.8 0.41 (1)	5.41	G-J	0 / 2178	0.54 (1)
E-F	-1236 / 0	-91.8	-91.8 0.20 (1)	5.51			
L-B	-1077 / 0	0.0	0.0 0.68 (1)	7.81			
G-F	-982 / 0	0.0	0.0 0.07 (1)	7.81			
L-P	0 / 131	-18.5	-18.5 0.05 (4)	10.00			
P-K	0 / 131	-18.5	-18.5 0.05 (4)	10.00			
K-J	0 / 203	0.0	0.0 0.27 (1)	10.00			
J-C	0 / 422	0.0	0.0 0.30 (1)	10.00			
J-Q	0 / 2314	-18.5	-18.5 0.43 (1)	10.00			
Q-I	0 / 2314	-18.5	-18.5 0.43 (1)	10.00			
I-R	0 / 1442	-18.5	-18.5 0.30 (1)	10.00			
R-H	0 / 1442	-18.5	-18.5 0.30 (1)	10.00			
H-S	0 / 0	-18.5	-18.5 0.07 (4)	10.00			
S-G	0 / 0	-18.5	-18.5 0.07 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
D	5-8-0	-178	-178	---	FRONT	VERT	TOTAL	---	C1
E	9-11-0	-154	-154	---	FRONT	VERT	TOTAL	---	C1
H	9-6-12	-7	-7	---	FRONT	VERT	TOTAL	---	C1
I	5-6-12	-7	-7	---	FRONT	VERT	TOTAL	---	C1
K	2-7-12	-184	-184	---	FRONT	VERT	TOTAL	---	C1
M	1-10-4	1	1	104	FRONT	VERT	TOTAL	---	C1
N	7-8-12	-17	-17	---	FRONT	VERT	TOTAL	---	C1
O	9-8-12	-47	-47	---	FRONT	VERT	TOTAL	---	C1
P	1-10-4	7	7	12	FRONT	VERT	TOTAL	---	C1
Q	4-4-12	-3	-3	---	FRONT	VERT	TOTAL	---	C1
R	7-6-12	-7	-7	---	FRONT	VERT	TOTAL	---	C1
S	11-0-4	-3	-3	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 21.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2015, 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 (0.44")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.44")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CS1: TC=0.41/1.00 (D-E:1), BC=0.43/1.00 (I-J:1), WB=0.54/1.00 (B-J:1), SS1=0.22/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

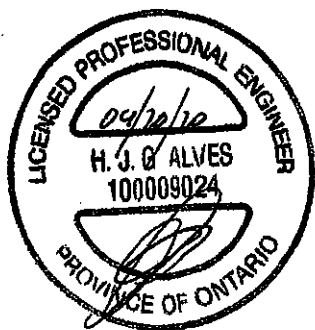
PLATE GRIP(DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354 1667	788 1967 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.87 (J) (INPUT = 0.90)
JSI METAL=0.49 (B) (INPUT = 1.00)

Structural component only
DWG# T-2006495



Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Fri Apr 17 06:44:28 2020 Page 1
ID:Ovhky48C0cPQc_Y353NoTWzckKo-9ycl9Z4I?gUqlnXgEnkHlHQD_K29uO6?MllFbbzPlZJ

Scale = 1/28.9

The structural drawing shows a roof truss system with various members labeled W1 through W6, C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100. The drawing includes dimensions for overall length (13-10), height (24-0), and various chord lengths. It also shows support details at joints B, G, and E.

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
H - B	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
H - 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	TMV+p	MT20	3.0	4.0		
C	TMWW-I	MT20	4.0	4.0	2.00	1.75
D	TTW-p	MT20	4.0	4.0		
E	TMV-I	MT20	4.0	4.0	2.00	1.25
F	BMV1+p	MT20	3.0	4.0		
G	BMWW-I	MT20	4.0	9.0		
H	BMVV1-I	MT20	4.0	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
F 721 0	721 0 0	MECHANICAL	
H 846 0	846 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 LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
F 510	335 / 0 0 / 0 0 / 0 175 / 0 0 / 0
H 598	404 / 0 0 / 0 0 / 0 192 / 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 FORCE (LBS)	VERT. LOAD (PL)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	C-G	-275 / 0	0.10 (1)
B-C	0 / 18	-91.8 -91.8	0.21 (1)	10.00	G-D	0 / 124	0.04 (4)
C-D	-584 / 0	-91.8 -91.8	0.17 (1)	6.25	H-C	-898 / 0	0.33 (1)
D-E	-568 / 0	-91.8 -91.8	0.34 (1)	6.25	G-E	0 / 541	0.12 (1)
H-B	-262 / 0	0.0 0.0	0.03 (1)	7.81			
F-E	-690 / 0	0.0 0.0	0.09 (1)	7.81			
H-G	0 / 728	-18.5 -18.5	0.30 (4)	10.00			
G-F	0 / 0	-18.5 -18.5	0.25 (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. O.C.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2010 , CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.44")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.44")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.34/1.00 (D-E:1) , BC=0.30/1.00 (G-H:4) , WB=0.33/1.00 (C-H:1) , SSf=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (E) (INPUT = 0.90)
JSI METAL= 0.26 (C) (INPUT = 1.00)

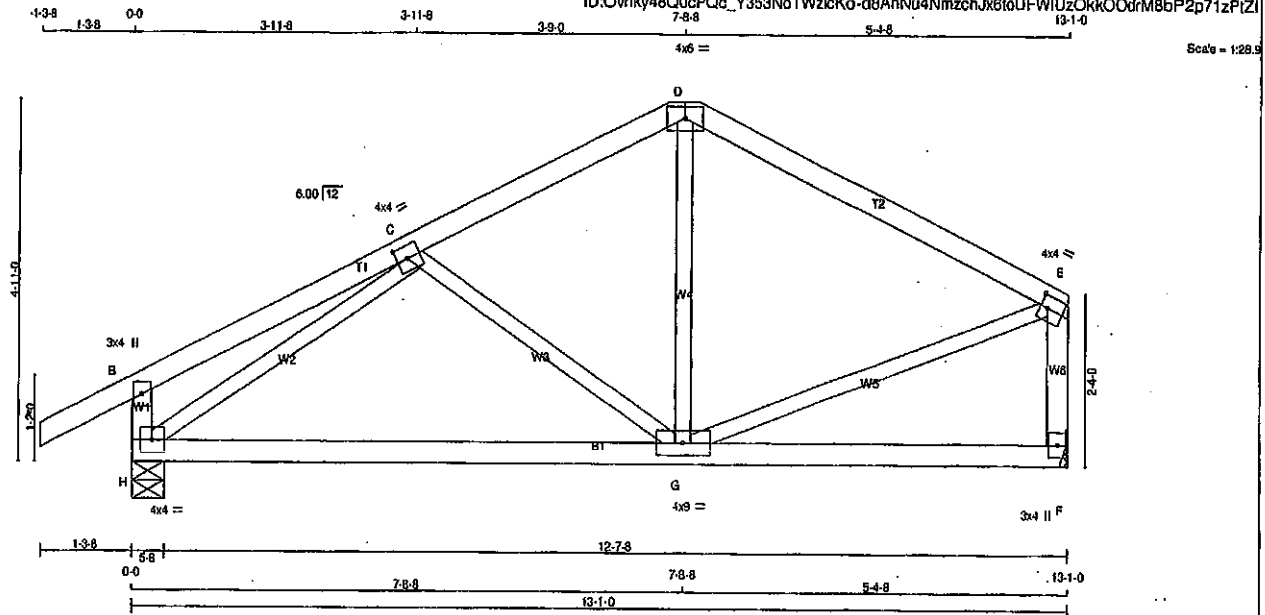
STRUCTURAL COMPONENT ONLY

DWG# T-2006498

LICENSED PROFESSIONAL ENGINEER
H. J. G. ALVES
100009024
PROVINCE OF ONTARIO

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	T34CP	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:Ovhky48Q0cPQc_Y353NoTWzicKo-d8AhNu4NmzchJx6toUFWiUzOkkO0drM8bP2p71zPZI



TOTAL WEIGHT = 52 k (M/F)

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-p	MT20	4.0	8.0		
E	TMVV-t	MT20	4.0	4.0	2.00	1.25
F	BMV1+p	MT20	3.0	4.0		
G	BMWWW-t	MT20	4.0	9.0		
H	BMVW1-t	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	HORZ	UPLIFT
F	721	0	721	0	0
H	846	0	846	0	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	510	335 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
H	598	404 / 0	0 / 0	0 / 0	0 / 0	192 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED	VERT. LOAD	MAX. FACTORED	MEMB.	MAX. FACTORED
	FORCE (LBS)	LC1	CS1 (LC)		FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00
B-C	0 / 18	-91.8	-91.8	0.21 (1)	10.00
C-D	-504 / 0	-91.8	-91.8	0.17 (1)	8.25
D-E	-598 / 0	-91.8	-91.8	0.34 (1)	8.25
H-B	-262 / 0	0.0	0.0	0.03 (1)	7.81
F-E	-690 / 0	0.0	0.0	0.09 (1)	7.81
H-G	0 / 728	-18.5	-18.5	0.30 (4)	10.00
G-F	0 / 0	-18.5	-18.5	0.25 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN.C/C

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 (19th AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.44")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.10")

CSI: TC=0.34/1.00 (D-E:1), BC=0.30/1.00 (G-H:4),
WB=0.33/1.00 (C-H:1), SS=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

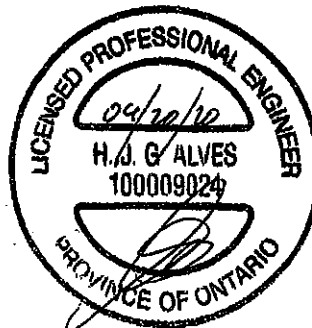
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

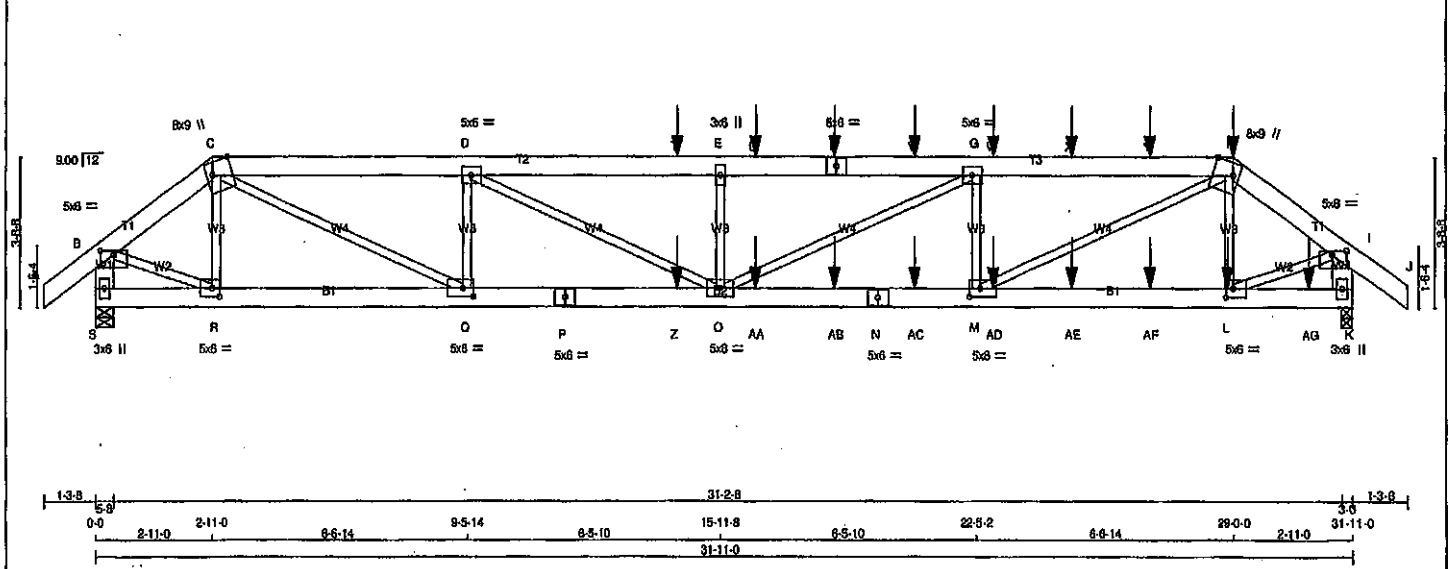
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (E) (INPUT = 0.80)
JSI METAL = 0.28 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006497



LUMBER					TOTAL WEIGHT = 165 lb											
N. L. G. A. RULES					(M)											
CHORDS					LUMBER					DESCR.						
SIZE										BEARINGS						
A - C					2x6	DRY	No.2	SPF	FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
C - F					2x6	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		BRG		BRG	
F - H					2x6	DRY	No.2	SPF	VERT		DOWN		HORIZ		UPLIFT	
H - J					2x6	DRY	No.2	SPF	JT		N-SX		IN-SX		IN-SX	
S - B					2x6	DRY	No.2	SPF	S		2105		0		5-8	
K - I					2x6	DRY	No.2	SPF	K		2458		0		3-0	
S - P					2x6	DRY	No.2	SPF								
P - N					2x6	DRY	No.2	SPF								
N - K					2x6	DRY	No.2	SPF								
ALL WEBS					2x3	DRY	No.2	SPF								
EXCEPT																
DRY; SEASONED LUMBER.					UNFACTORED REACTIONS											
					1ST CASE		MAX./MIN.		COMPONENT REACTIONS							
					JT		COMBINED		SNOW		LIVE		PERM.LIVE		WIND	
					S		1488		990/0		0/0		0/0		498/0	
					K		1734		1163/0		0/0		0/0		581/0	
					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, K											
					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 = 9.0 PSF											
					DL = 7.4 PSF											
					TOTAL LOAD = 39.0 PSF											
					SPACING = 24.0 IN. C/C											

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408164	T300	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:1ebEM4C692xm94Zy7kFP1zmBR3-kt11L5mM4n3Apv4XkHrGqICR78hNAmPdvMp8zMDcl

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
U	18-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
V	20-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
W	22-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
X	24-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
Y	26-10-4	-67	-67	---	FRONT	VERT	TOTAL	---	C1
Z	14-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AA	16-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AB	18-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AC	20-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AD	22-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AE	24-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AF	26-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1
AG	30-10-4	-13	-13	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

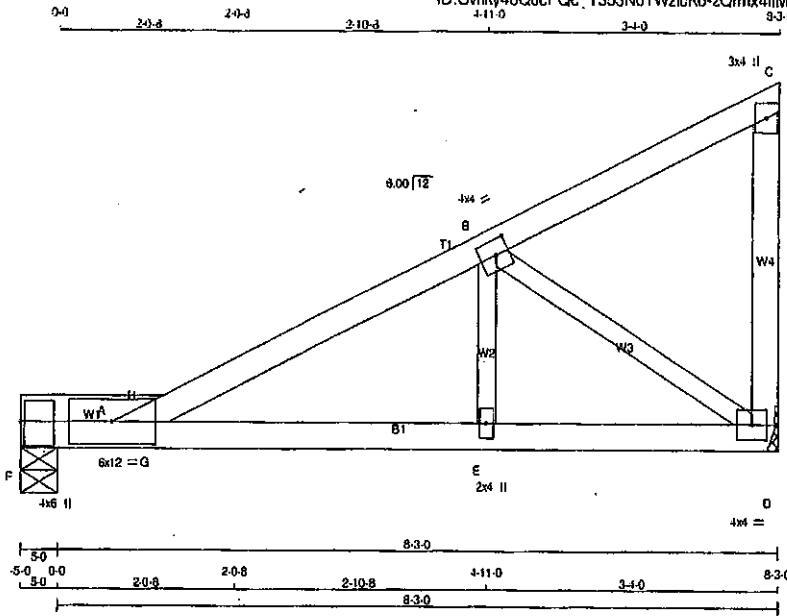


Structural component only
DWG# T-2007739 72

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC	TRUSS DESC.	DRWG NO.
408165	T320	4	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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Scale = 1:23

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TBMWm	MT20	8.0	12.0	
B	TBMW-t	MT20	4.0	4.0	2.00 1.75
C	TMV-p	MT20	3.0	4.0	
D	BMVW1-t	MT20	4.0	4.0	
E	BMVW-w	MT20	2.0	4.0	
F	BMVW1-t	MT20	4.0	6.0	3.25 0.50

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQD
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	478	0	478	0	0	MECHANICAL	
F	478	0	478	0	0	5-0	5-0

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

UNFACTORED REACTIONS

JT	1ST LOSE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	338	222 0	0 0	0 0	0 0	116 0	0 0	0 0
F	338	222 0	0 0	0 0	0 0	116 0	0 0	0 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO			
A-H	-831 0	-91.8	-91.8	0.21 (1)	6.25	E-B	0 195 0.04 (1)
H-B	-627 0	-91.8	-91.8	0.29 (1)	6.25	B-D	-715 0 0.18 (1)
B-C	-27 0	-91.8	-91.8	0.21 (1)	6.25	G-H	0 281 0.00 (1)
D-C	-93 0	0.0	0.0	0.02 (1)	7.81		
F-A	0 0	-110.3	-110.3	0.25 (1)	10.00		
A-G	0 602	-18.5	-18.5	0.59 (1)	10.00		
G-E	0 602	-18.5	-18.5	0.47 (1)	10.00		
E-D	0 602	-18.5	-18.5	0.23 (1)	10.00		

TOTAL WEIGHT = 4 X 30 = 119 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 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 (0.29")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.29")
CALCULATED VERT. DEFL. (TL) = L/708 (0.15")

CS1: TO=0.29/1.00 (B-H:1), BC=0.89/1.00 (A-G:1), WB=0.18/1.00 (B-D:1), SS1=0.30/1.00 (A-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

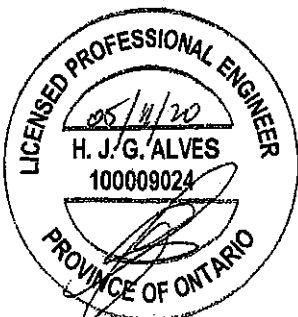
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	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.

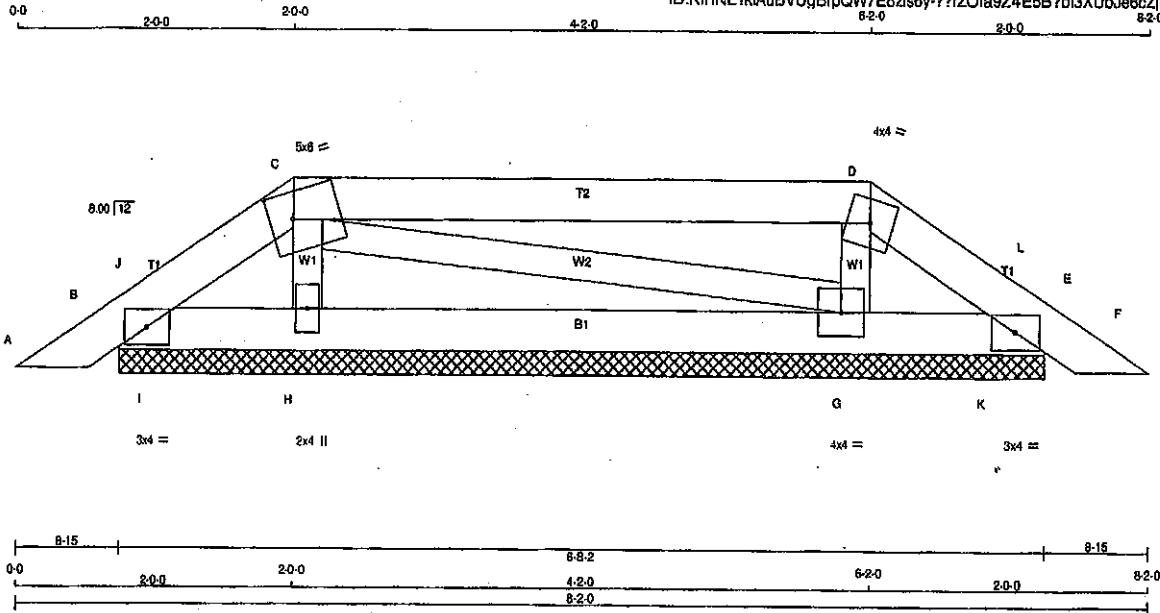
JSI GRIP= 0.65 (0) INPUT = 0.90
JSI METAL= 0.26 (A) INPUT = 1.00



Structural component only
DWG# T-2009109

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408163	PB1	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 2 X 22 = 44 lb
(M)

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

PLATES (tablets in inches)				
JT TYPE	PLATES	W	LEN Y	X
B	TMB1-I	MT20	3.0	4.0
C	TTWW-m	MT20	5.0	8.0
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		REQD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
B	145	0	145	0	0	6-8-2	6-8-2	6-8-2	6-8-2
E	141	0	141	0	0	6-8-2	6-8-2	6-8-2	6-8-2
H	283	0	283	0	0	6-8-2	6-8-2	6-8-2	6-8-2
G	289	0	289	0	0	6-8-2	6-8-2	6-8-2	6-8-2

UNFACTORED REACTIONS		1ST LOSE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
B	99	83/0	0/0	0/0	17/0
E	97	81/0	0/0	0/0	16/0
H	202	121/0	0/0	0/0	81/0
G	206	125/0	0/0	0/0	81/0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PL)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO	
A-B	0/15	-91.8 -91.8 0.03 (1)	10.00	H-C	-203/0
B-J	-44/0	-91.8 -91.8 0.01 (4)	6.25	C-G	-6/0
J-C	-51/0	-91.8 -91.8 0.01 (1)	6.25	G-D	-208/0
C-D	-11/0	-91.8 -91.8 0.27 (1)	6.25	I-J	-68/0
D-L	-45/0	-91.8 -91.8 0.01 (1)	6.25	K-L	-69/0
L-E	-37/2	-91.8 -91.8 0.01 (4)	6.25		
E-F	0/15	-91.8 -91.8 0.03 (1)	10.00		
B-I	0/40	-18.5 -18.5 0.03 (1)	10.00		
I-H	0/40	-18.5 -18.5 0.05 (4)	10.00		
H-G	0/17	-18.5 -18.5 0.05 (4)	10.00		
G-K	0/35	-18.5 -18.5 0.05 (4)	10.00		
K-E	0/35	-18.5 -18.5 0.03 (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 2.00/12 MINIMUM

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.27/1.00 (C-D:1), BC=0.05/1.00 (H-I:4), WB=0.03/1.00 (D-G:1), SS=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

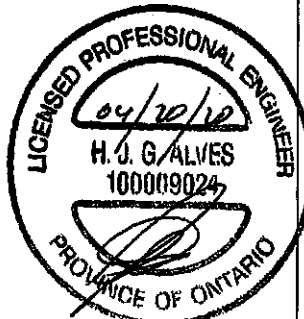
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

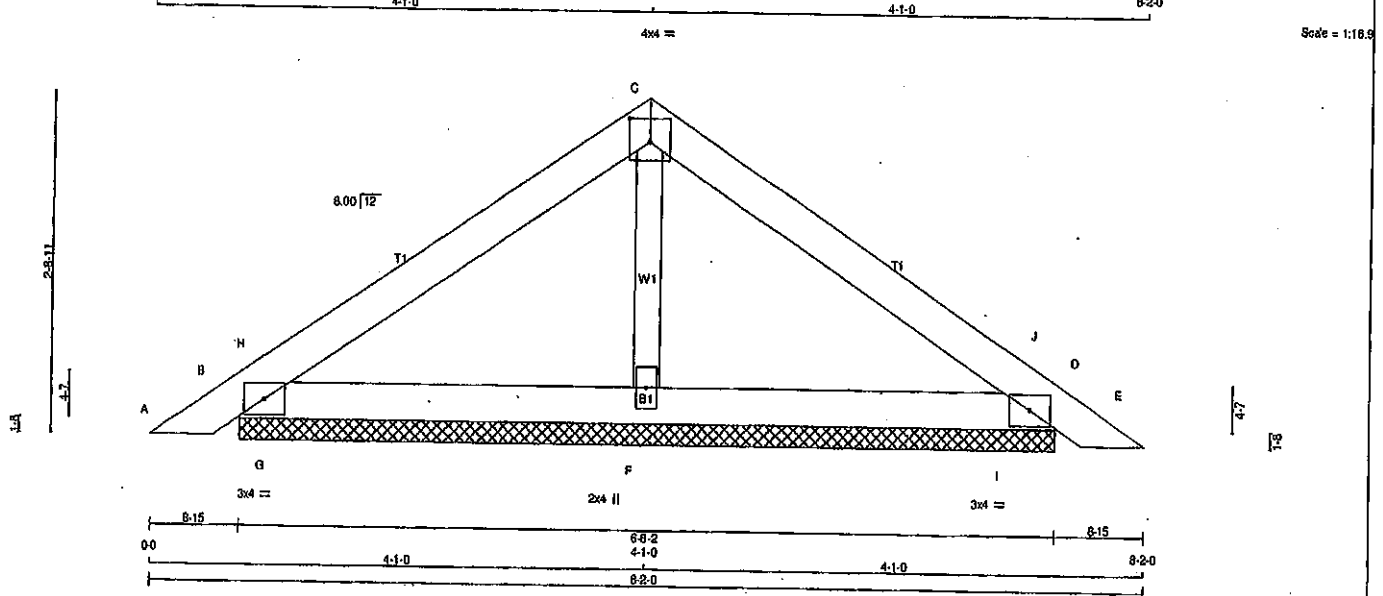
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.16 (D) (INPUT = 0.90)
JSI METAL= 0.05 (C) (INPUT = 1.00)



Structural component only
DWG# T-2006466

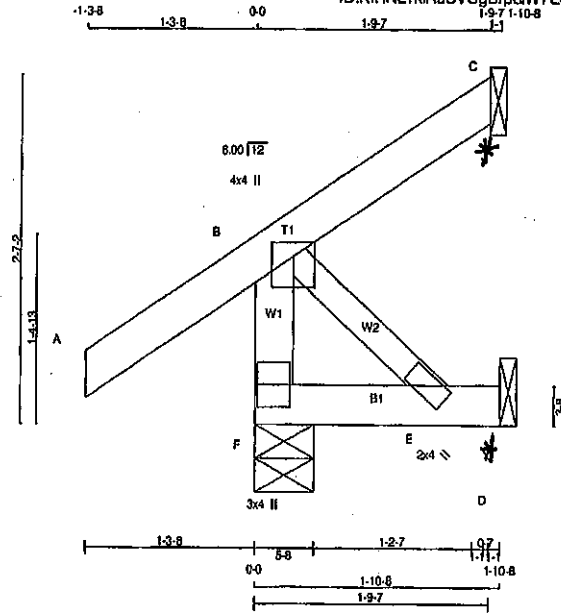
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Structural component only
DWG# T-2006467

JOB NAME 408163	TRUSS NAME J1	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:15.0

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

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMVW+p	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	DOWN	IN-SX	IN-SX
F	274	0	0	5-8
C	34	0	39	1-8
D	17	0	0	1-8

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

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

<u>UNFACTORED REACTIONS</u>							
	1ST CASE	<u>MAX. MIN. COMPONENT REACTIONS</u>					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	190	143/0	0/0	0/0	0/0	47/0	0/0
C	23	19/-27	0/0	0/0	0/0	4/0	0/0
D	14	0/0	0/0	0/0	0/0	14/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
F-B		-258/0	0.0	0.0	0.03 (1)	7.81	B-E	0/0	0.00 (1)
A-B		0/35	-91.8	-91.8	0.12 (1)	10.00			
B-C		-27/0	-91.8	-91.8	0.12 (1)	8.25			
F-E		0/0	-18.5	-18.5	0.02 (4)	10.00			
E-D		0/0	-18.5	-18.5	0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (E-F:4),
WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

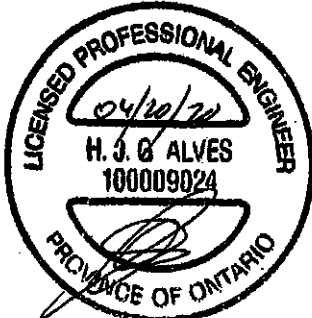
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



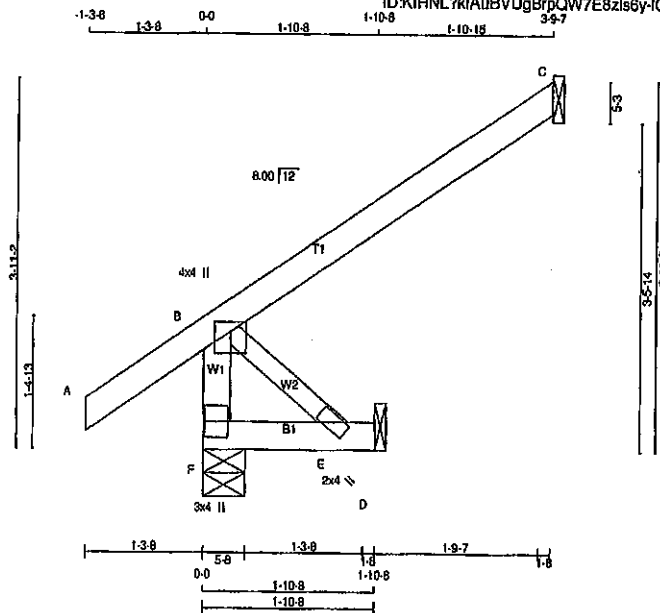
Structural component only
DWG# T-2006458

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408163	J2	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:22.5



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

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00	
E	BMV+w	MT20	2.0	4.0			
F	BMV+p	MT20	3.0	4.0			

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ
F	317	0	317	0
C	174	0	174	0
D	17	0	19	0

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

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
F	220	167/0	0/0
C	120	97/0	0/0
D	14	0/0	0/0

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

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

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

LOADING

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
F-B	-300/0	0.0	0.0	0.03 (1)
A-B	0/35	-91.8	-91.8	0.13 (5)
B-C	0/0	-91.8	-91.8	0.22 (1)
F-E	0/0	-18.5	-18.5	0.02 (4)
E-D	0/0	-18.5	-18.5	0.01 (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/GC

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

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

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

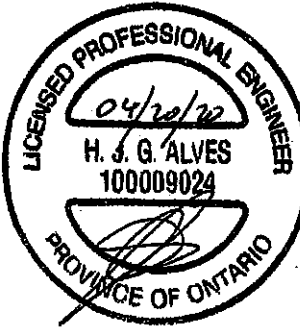
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

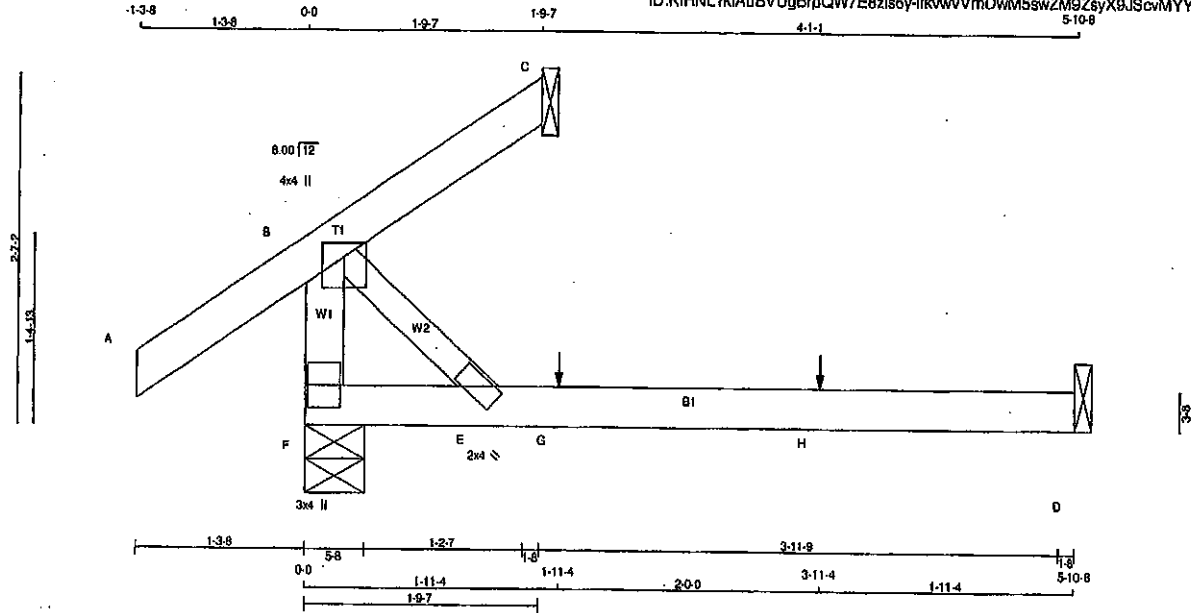
JSI GRIP = 0.21 (B) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006459

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408163	J3	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1/8\"/>

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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMW+sw	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS									
	FACTORED	MAXIMUM FACTORED	INPUT	RECORD					
	GROSS REACTION	GROSS REACTION	BRG	BRG					
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
F	311	0	311	0	0	5-8	5-8		
C	34	0	34	0	0	1-8	1-8		
D	54	0	61	0	0	1-8	1-8		

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

UNFACTORED REACTIONS									
	1ST LOASE	MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
F	220	143 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0		
C	23	19 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0		
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0		

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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							
	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED		
	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	FORCE	MAX	
FR-TO		FROM	TO				(LBS)	CSI (LC)	
F-B	-258 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8	0.13 (1)	10.00				
B-C	-27 / 0	-91.8	-91.8	0.12 (1)	6.25				
F-E	0 / 0	-18.5	-18.5	0.13 (4)	10.00				
E-G	0 / 0	-18.5	-18.5	0.19 (4)	10.00				
G-H	0 / 0	-18.5	-18.5	0.19 (4)	10.00				
H-D	0 / 0	-18.5	-18.5	0.19 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	1	1	---	FRONT	VERT	TOTAL	---	C1
H	3-11-4	1	1	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. G/C

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

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

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

(5% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.09/1.00 (B-E:1), SSI=0.09/1.00 (B-C:1)

DOL LUMBER=0.98 NAIL=0.98 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

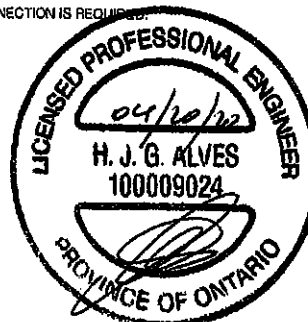
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1857 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



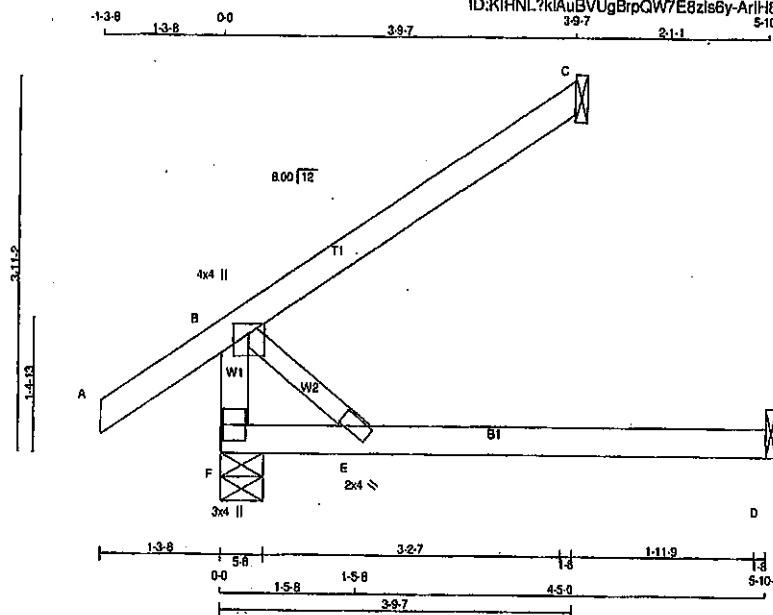
Structural component only
DWG# T-2006460

JOB NAME 408163	TRUSS NAME J4	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2018 Mitek Industries, Inc. Fri Apr 17 08:48:25 2020 Page 1
ID:KIHNL7klAuBVUgBrpQW7E8zls6y-ArIH8FWO_EUxT47YIGNB4NsbqJinHHjWkmd2GCzPlXS

Scale = 1:22.5



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.	

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMVW+p MT20	4.0	4.0	1.25	2.00
E BMVW+p MT20	2.0	4.0		
F BMV1+p MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
F	354	0	354	0	5-8	5-8		
C	174	0	174	0	1-8	1-8		
D	54	0	61	0	1-8	1-8		

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	250	167/0	0/0	0/0	0/0	83/0	0/0
C	120	97/0	0/0	0/0	0/0	23/0	0/0
D	43	0/0	0/0	0/0	0/0	43/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LOC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
F-B	-300 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00				
B-C	0 / 0	-91.8	-91.8	0.22 (1)	10.00				
F-E	0 / 0	-18.5	-18.5	0.14 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.19 (4)	10.00				

TOTAL WEIGHT = 2 X 16 = 33 lb (M)

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.20")
CALCULATED VERT. DEFL. (LL) = L/989 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/989 (0.05")

CSI: TC=0.22/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=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
(PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1556

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)



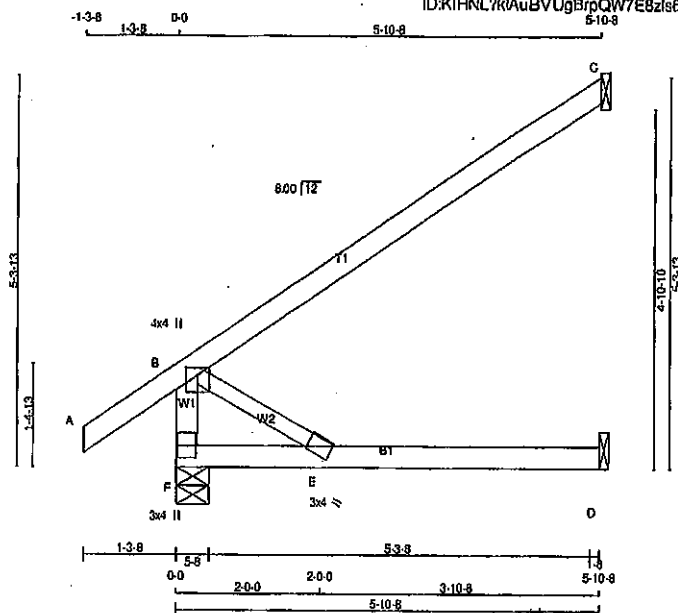
Structural component only
DWG# T-2006461

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408163	J5	11	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:KIHNL7kAuBVUgBrpQW7E8zls6y-e2sgLbX0XcoSEikG_uQcaOhf100kzgyQNopezPIXR

Scale = 1:25



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

PLATES (tablets in inches)	W	LEN	Y	X
JT TYPE	PLATES			
B TMVW+p	MT20	4.0	4.0	1.25 2.00
E BMW+w	MT20	3.0	4.0	
F BMVt+p	MT20	3.0	4.0	

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

LOADING DESIGN							
BEARINGS							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	450	0	450	0	0	5-8	5-8
C	270	0	270	0	0	1-8	1-8
D	54	0	51	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	318	221/0	0/0	0/0	0/0	95/0	0/0
C	186	150/0	0/0	0/0	0/0	35/0	0/0
D	43	0/0	0/0	0/0	0/0	43/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
F-B	-395/0	0.0	0.0	0.04 (1)	7.81	0/0	0.00 (1)
A-B	0/35	-91.8	-91.8	0.12 (1)	10.00		
B-C	0/0	-91.8	-91.8	0.54 (1)	10.00		
F-E	0/0	-18.5	-18.5	0.17 (4)	10.00		
E-D	0/0	-18.5	-18.5	0.19 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

CS: TC=0.54/1.00 (B-C:1), BC=0.19/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
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= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006462

DRWG NO.



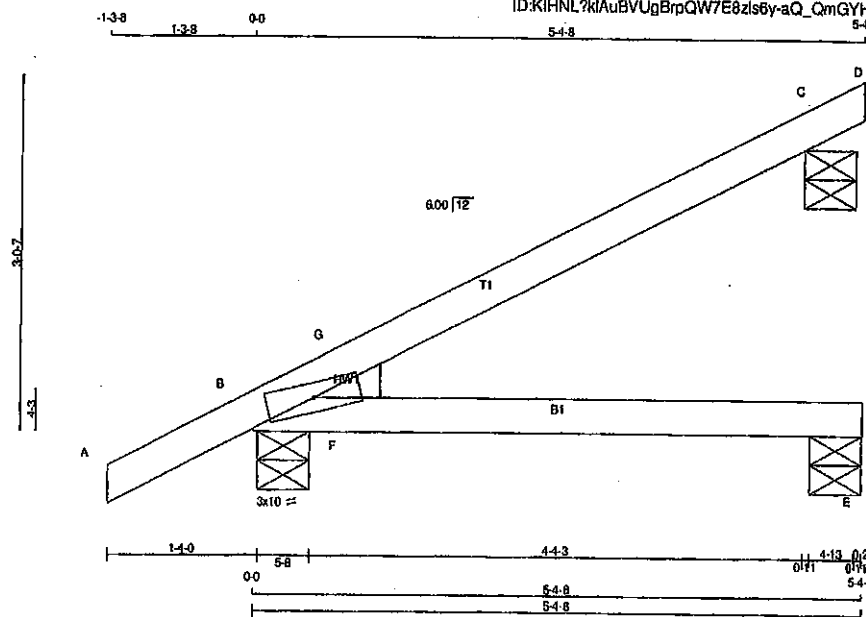
JSI GRIP= 0.15 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

Structural component only
DWG# T-2006463

Tamarack Roof Truss, Burlington

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Scale = 1:18.2



TOTAL WEIGHT = 2 X 15 = 31 lb

DRY: SEASONED LUMBER

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

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

UNFACTORED REACTIONS

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

BRACING

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 (PLF)	MAX. CSI (LC)	MAX. UNIFAC LENGTH	MEMB.	MAX. FORCE (LBS)
FR-TO		FROM TO				FR-TO	MAX. CSI (LC)
A-B	0/26	-91.8	-91.8	0.12 (1)	10.00		
B-G	-23/0	-91.8	-91.8	0.08 (4)	8.25	F-G	-191/14
G-C	0/4	-91.8	-91.8	0.30 (1)	6.25		0.00 (1)
C-D	-7/0	-91.8	-91.8	0.01 (1)	10.00		
D-F	0/0	-18.5	-18.5	0.23 (1)	10.00		
F-E	0/0	-18.5	-18.5	0.23 (1)	10.00		

WEBS

MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
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DESIGN CRITERIA

SPECIFIED LOADS:-

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

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

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.06")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/864$ (0.10")

CSI: TC=0.30/1.00 (C-G:1), BC=0.23/1.00 (E-F:1),
WB=0.00/1.00 (F-G:1), SSI=0.16/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	818	354	1667	788	1987	1650

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (B) (INPUT = 0.90)
JSI METAL= 0.03 (B) (INPUT = 1.00)

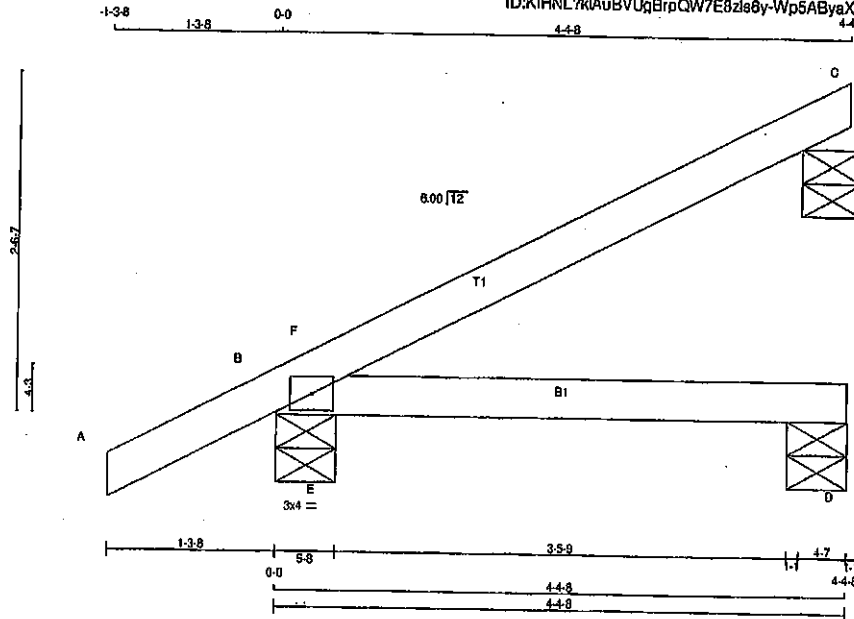


Structural component only
DWG# T-2006464

JOB NAME 408163	TRUSS NAME J8	QUANTITY 8	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:KIHNL7kAuBVUgBrpQW7E8zla8y-Wp5AByaXom6Ear0WVpyMnQZSWKPMYyF12LpyPzP1XN

Scale: 3/4"=1'



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

PLATES (table in inches)
JT TYPE PLATES W LEN Y X
B TM81-I MT20 3.0 4.0

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
C	175	0	175	0	5-8 (4-6)	5-8
B	366	0	366	0	5-8	5-8
D	66	0	66	0	5-8 (5-7)	5-8

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	121	947.0	0.0	0.0	0.0	27.0	0.0
B	256	1617.0	0.0	0.0	0.0	75.0	0.0
D	49	167.0	0.0	0.0	0.0	32.0	0.0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED		MAX. FACTORED FORCE (LBS)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
				LC1	LC2				
FR-TO									
A-B	0.26	-91.8	-91.8	0.12 (1)	10.00				
B-F	-20.37	-91.8	-91.8	0.05 (1)	8.25				
F-C	-3.2	-91.8	-91.8	0.23 (1)	10.00				
B-E	0.0	-18.5	-18.5	0.16 (1)	10.00				
E-D	0.0	-18.5	-18.5	0.16 (1)	10.00				

TOTAL WEIGHT = 8 X 12 = 96 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 = 35.0 PSF

SPACING = 24.0 IN. GC

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

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

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

ALLOWABLE DEFL.(LL) = 1/360 (0.19")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.02")
ALLOWABLE DEFL.(TL) = 1/360 (0.19")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.04")

CSI: TC=0.23/1.00 (C-F:1), BC=0.16/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.23/1.00 (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 1867 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.29 (B) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006465

Version 6.310 S Oct 29 2019 MiTek Industries, Inc. Fri Apr 17 08:44:08 2020 Page 1
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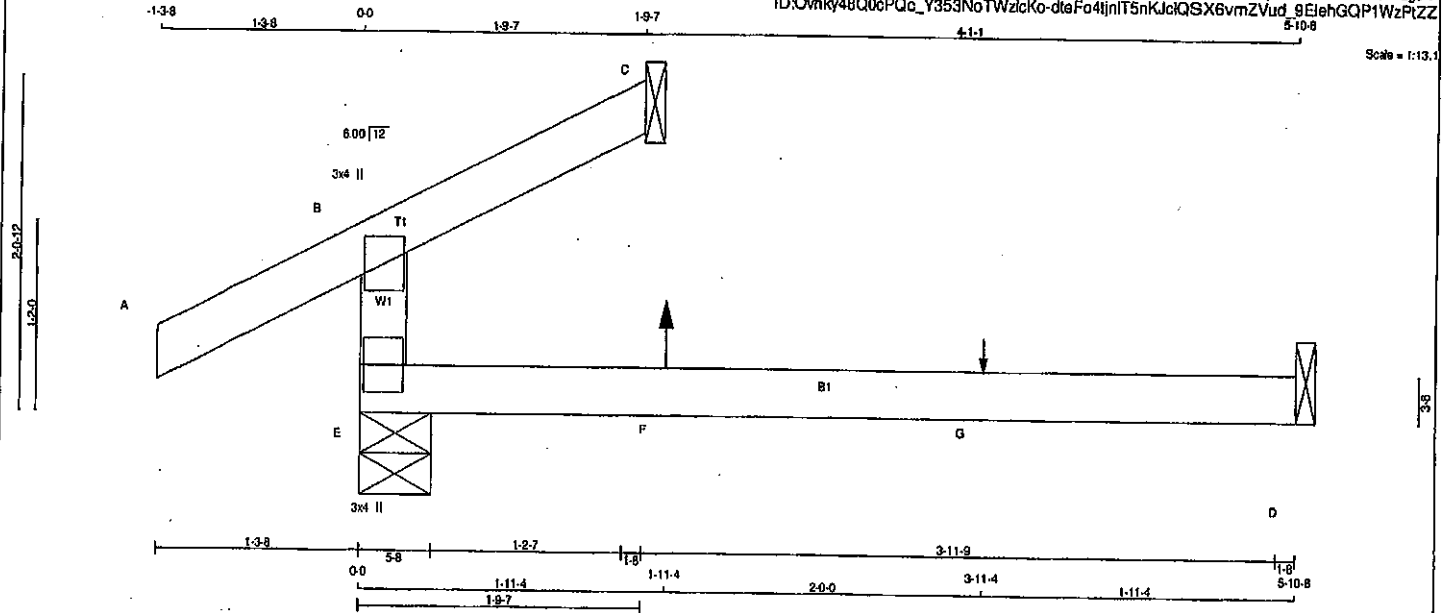
Structural component only
DWG# T-2006477

Structural component only
DWG# T-2006478

JOB NAME 408165	TRUSS NAME J23	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Fri Apr 17 08:44:10 2020 Page 1
ID:Ovhky48Q0cPQc_Y353NoTWzlcKo-dteFo4tjnlT5nKJcQX6vmZVud_9EJehGQP1WzPlZz



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.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
E	284	0	284	0	5-8	5-8
C	63	0	63	0	1-8	1-8
D	44	0	52	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	200	137.0	0.0	0.0	0.0	62.0	0.0
C	48	21.0	0.0	0.0	0.0	25.0	0.0
D	35	0.3	0.0	0.0	0.0	37.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				
E-B	-227.0	0.0	0.0	7.81
A-B	0.28	-91.8	-91.8	10.00
B-C	-9.9	-91.8	-91.8	10.00
E-F	0.0	-18.5	-18.5	10.00
F-G	0.0	-18.5	-18.5	10.00
G-D	0.0	-18.5	-18.5	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	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.

TOTAL WEIGHT = 2 X 12 = 23 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(56 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4), WB=0.09/1.00 (NA:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (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.

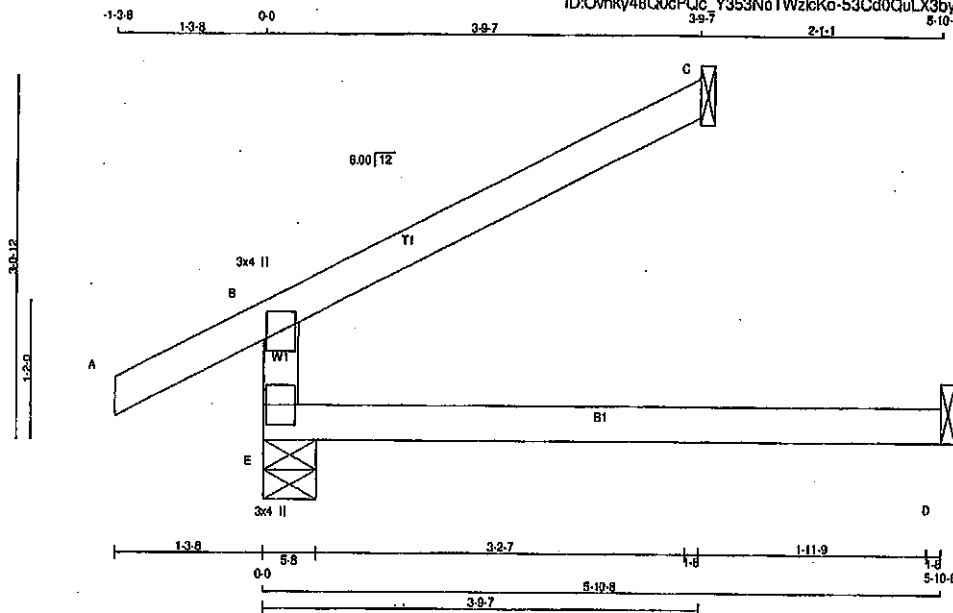
JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006479

JOB NAME 408165	TRUSS NAME J24	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:17.9

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)			
JT TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0 4.0
E	BMV1+p	MT20	3.0 4.0

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

BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT REQD BRG IN-SX
E	405 0	405 0	5-8
C	130 0	130 0	1-8
D	45 0	50 0	1-8

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

UNFACTORED REACTIONS			
JT	1ST CASE COMBINED	MAX/MIN. COMPONENT REACTIONS	
E	286	190 / 0	0 / 0
C	90	73 / 0	0 / 0
D	36	0 / 0	0 / 0

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

BRACING

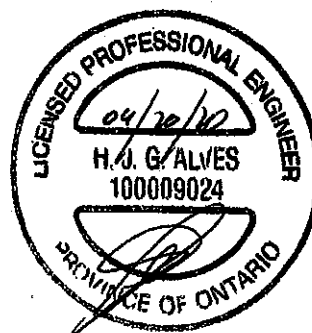
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED VERT. LOAD (LC)
E-B	-342 / 0	0.0	0.0
A-B	0 / 28	-91.8	-91.8
B-C	-19 / 0	-91.8	-91.8
E-D	0 / 0	-18.5	-18.5



TOTAL WEIGHT = 2 X 14 = 28 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (A-B:0), SI=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 (HRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1687

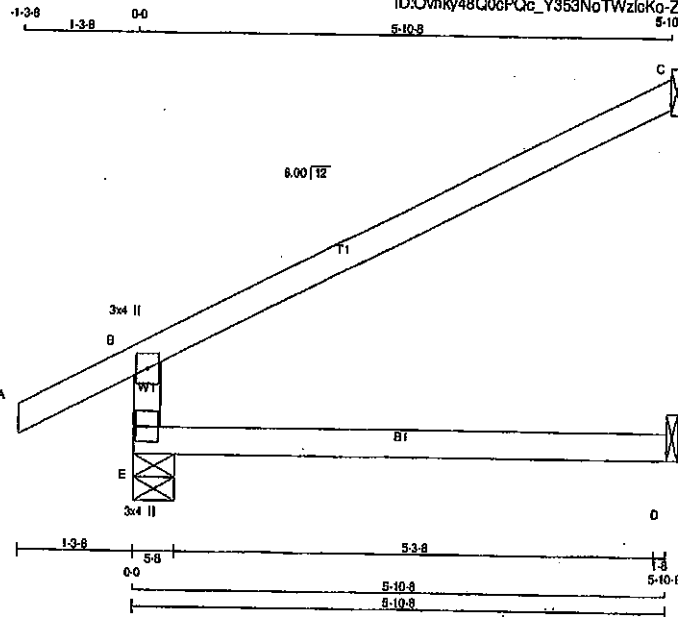
PLATE PLACEMENT TOL. = 0.250 inches

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-2006480

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	J25	11	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

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

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

UNFACTORED REACTIONS	1ST CASE	MAX/MIN	COMPONENT REACTIONS	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM	LIVE
E	369	257.0	0.0	0.0	0.0
C	139	113.0	0.0	0.0	0.0
D	36	0.0	0.0	0.0	0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	MAX CST (LC)
E-B	-461.0	0.0 0.0	0.13 (4)	7.81	
A-B	0.28	-91.8 -91.8	0.12 (1)	10.00	
B-C	-30.0	-91.8 -91.8	0.54 (1)	8.25	
E-D	0.0	-18.5 -18.5	0.13 (4)	10.00	

TOTAL WEIGHT = 11 X 17 = 185 LB

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")
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=0.84/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (A-B:0), SS=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE, GRIP (DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 768 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (E) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)



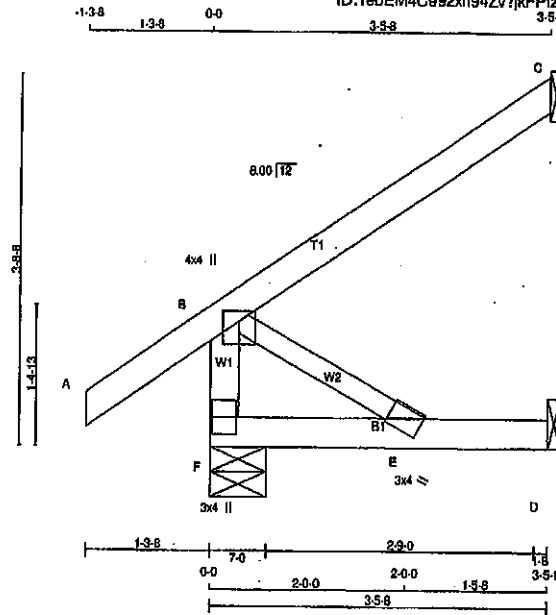
Structural component only
DWG# T-2006481

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408164	J26	9	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:21.2



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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMVW+w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORIZ	DOWN	HORIZ		
F	317	0	317	0	7-0	7-0
C	159	0	159	0	1-8	1-8
D	32	0	32	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	222	159 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0
C	109	88 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
D	26	0 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		FR-TO				
F-B	-285 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8	0.14 (5)	10.00				
B-C	0 / 0	-91.8	-91.8	0.19 (1)	10.00				
F-E	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.08 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 9 X 14 = 122 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. CG

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

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

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

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

CSI: TC=0.18/1.00 (B-C:1), BC=0.08/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

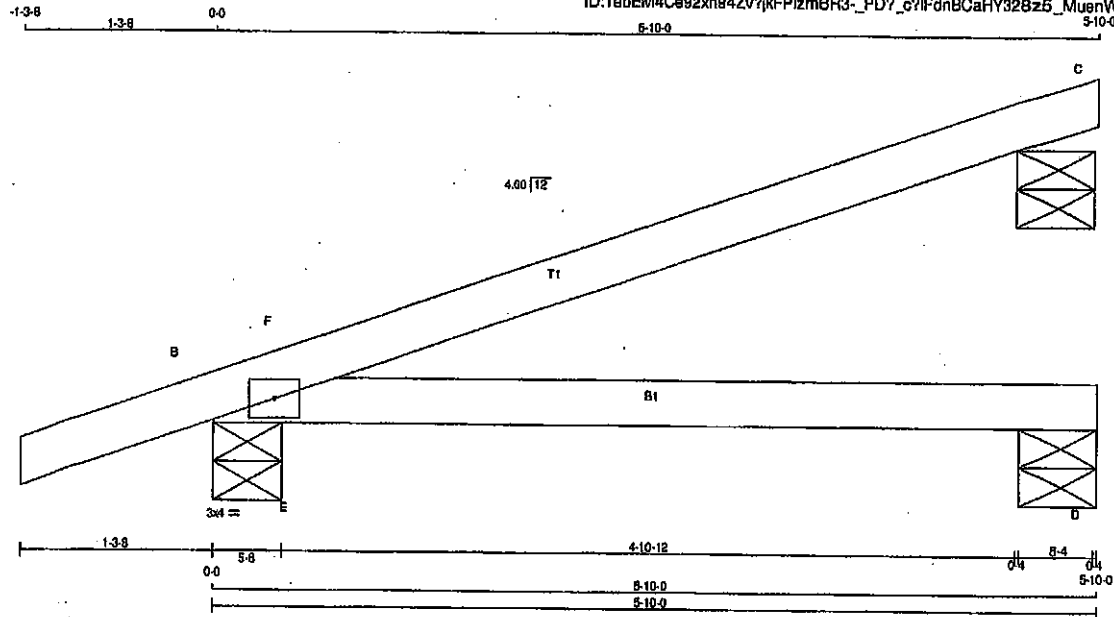
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.20 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007730

JOB NAME 408164	TRUSS NAME J27	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 9 Oct 2019 MITek Industries, Inc. Tue Apr 28 10:55:31 2020 Page 1			
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TOTAL WEIGHT = 7 X 15 = 107 lb

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
C	234	0	234	0	5-8	5-8	5-8	5-8
B	444	0	444	0	5-8	5-8	5-8	5-8
D	88	0	88	0	5-8	5-8	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LC CASE		MAX/MIN COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
C	162	128/0	0/0	0/0	0/0	36/0	0/0	
B	312	218/0	0/0	0/0	0/0	94/0	0/0	
D	66	23/0	0/0	0/0	0/0	42/0	0/0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 0.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WELLS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MEMB. FORCE (LBS)	MAX	FORCE (LBS)	MAX
FR-TO								
A-B	0/18	-91.8	-91.8	0.11 (1)	10.00	E-F	-324/12	0.00 (1)
B-F	-20/18	-91.8	-91.8	0.07 (4)	8.25			
F-C	-2/2	-91.8	-91.8	0.41 (1)	10.00			
B-E	0/0	-18.5	-18.5	0.28 (1)	10.00			
E-D	0/0	-18.5	-18.5	0.28 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 9.4 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) = $L/999$ (0.07")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/501$ (0.14")

CSI: TC=0.41/1.00 (C-F:1), BC=0.28/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.27/1.00 (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 1997 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

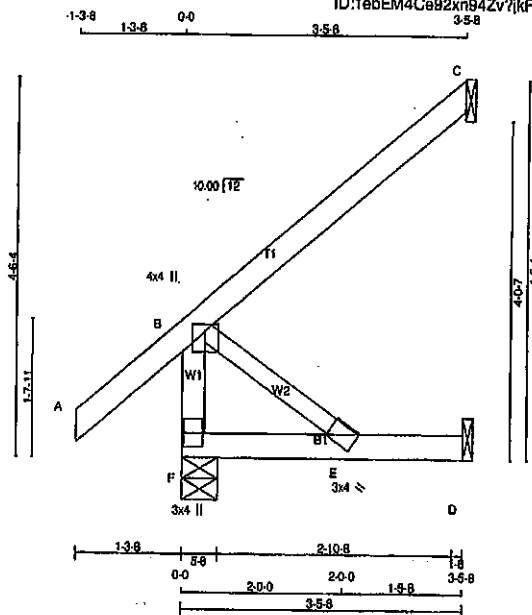
JSI GRIP= 0.29 (B) (INPUT = 0.99)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007731

JOB NAME 408164	TRUSS NAME J28	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1/25.4

LUMBER				DESCR	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	SPF	SPF
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				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
E	BMVW+w	MT20	3.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	HORIZ	DOWN	HORIZ	BRG	IN-SX	BRG	IN-SX
F	318	0	318	0	0	5-8	5-8		
C	159	0	159	0	0	1-8	1-8		
D	32	0	36	0	0	1-8	1-8		

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

UNFACTORED REACTIONS		MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
F	222	159 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0	
C	109	88 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0	
D	26	0 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0	

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	LCI MAX	MEMB.	FORCE (LBS)	LCI MAX	LCI MAX
FR-TO		FROM TO	CSI (LC)	UNBRAC LENGTH	FR-TO		
F-B	-288 / 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 0.19 (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

TOTAL WEIGHT = 7 X 14 = 101 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. 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

(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) = $L/360$ (0.18")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.01")

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



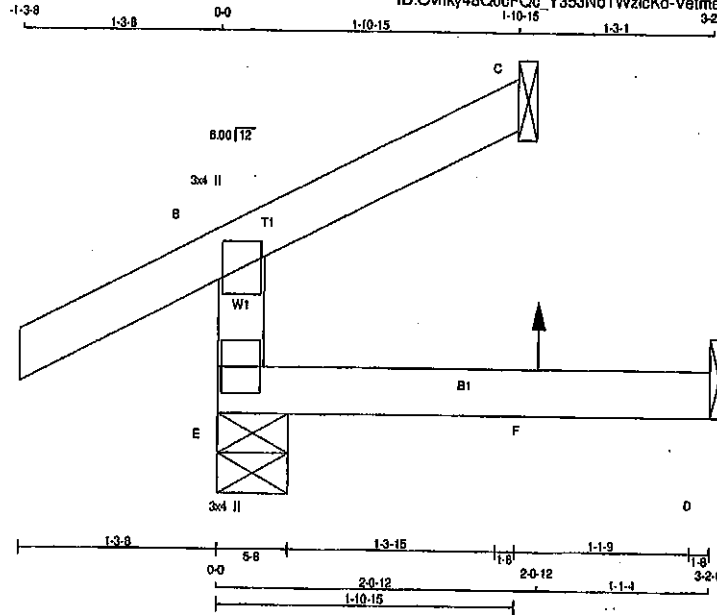
Structural component only
DWG# T-2007732

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB.DISC.	GREEN PARK HOMES	DRWG NO.
408165	J31	2	1	TRUSS.DISC.		

Tamarack Roof Truss, Burlington

ID:Ovhky48Q0cPQc_Y353NoTWzlcKo-VelmeSwDq_zXFxcNFWTGlxDJVOQ51IEcuOdAlzPiZV

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Scale = 1/16"

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMV+p	MT20	3.0	4.0	
E BMV1+p	MT20	3.0	4.0	

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

BEARINGS	FACTORED	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
E	264	0	284	0	0
C	85	0	66	0	0
D	21	0	28	0	0

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

UNFACTORED REACTIONS	1ST LOASE	MAX/MIN	COMPONENT REACTIONS	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM	LIVE	
E	185	128.0	0.0	0.0	0.0	57.0
C	48	37.0	0.0	0.0	0.0	9.0
D	15	11.0	0.0	0.0	0.0	2.0

HORIZONTAL REACTIONS	WIND	DEAD	SOIL
E	0.0	0.0	0.0
C	0.0	0.0	0.0
D	0.0	0.0	0.0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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: (B)

CHORDS	MAX. FACTORED	FACTORED	WIND	DEAD	SOIL
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CS1 (LC)	UNBRACED LENGTH FR-TO	MAX. FACTORED CS1 (LC)
FR-TO					
E-B	-234.0	0.0	0.0	0.03 (4)	7.81
A-B	0.0	-91.8	-91.8	0.13 (5)	10.00
B-C	-10.0	-91.8	-91.8	0.06 (1)	10.00
E-F	0.0	-18.5	-18.5	0.04 (4)	10.00
F-D	0.0	-18.5	-18.5	0.04 (4)	10.00

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	2-0-12	7	1	12		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 9 = 17 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CS1: TC=0.13/1.00 (A-B-5), BC=0.04/1.00 (D-E-4), WB=0.00/1.00 (n/a:0), SS1=0.10/1.00 (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)	(PLJ)	(PLD)
	MAX	MIN	MAX
MT20	618	354	1887
	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

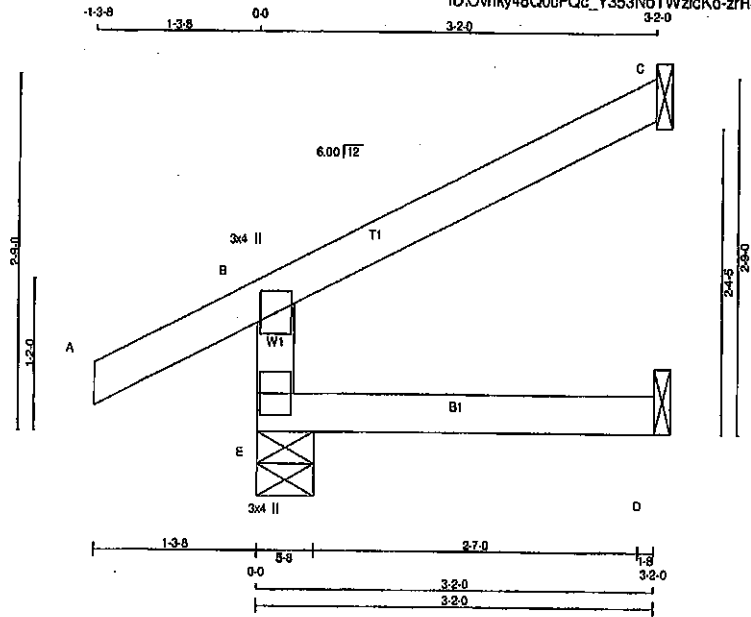
JSI GRIP= 0.10 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006482

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408165	J32	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:Ovhky48Q0cPQc_Y353NoTWzlcKo-zrH8soxbH5OI5BZ5z1ipyTOhvmIqUXNqY8A8kzPlZU



TOTAL WEIGHT = 3 X 10 = 31 lb

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

DRY: SEASONED LUMBER.

PLATES (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	UPLIFT	IN-SX	IN-SX	
E		339	0	339	0	0	5-8	5-8	
C		109	0	109	0	0	1-8	1-8	
D		25	0	25	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL 897781H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST LOASE		MAX/MIN. COMPONENT REACTIONS	
JT		COMBINED	SNOW	LIVE	PERM. LIVE
E		237	171/0	0/0	0/0
C		75	61/0	0/0	0/0
D		20	0/0	0/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR R31D CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
E-B	-308/0	0.0	0.0 0.03 (4)	7.81	
A-B	0/28	-91.8	-91.8 0.13 (5)	10.00	
B-C	-16/0	-91.8	-91.8 0.16 (1)	6.25	
E-D	0/0	-18.5	-18.5 0.04 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.8 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=0.18/1.00 (B-C:1), BC=0.04/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SS=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

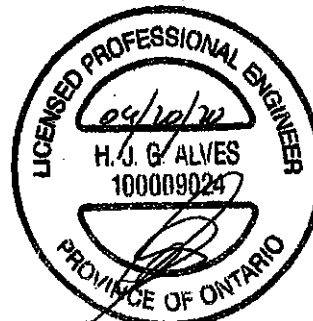
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

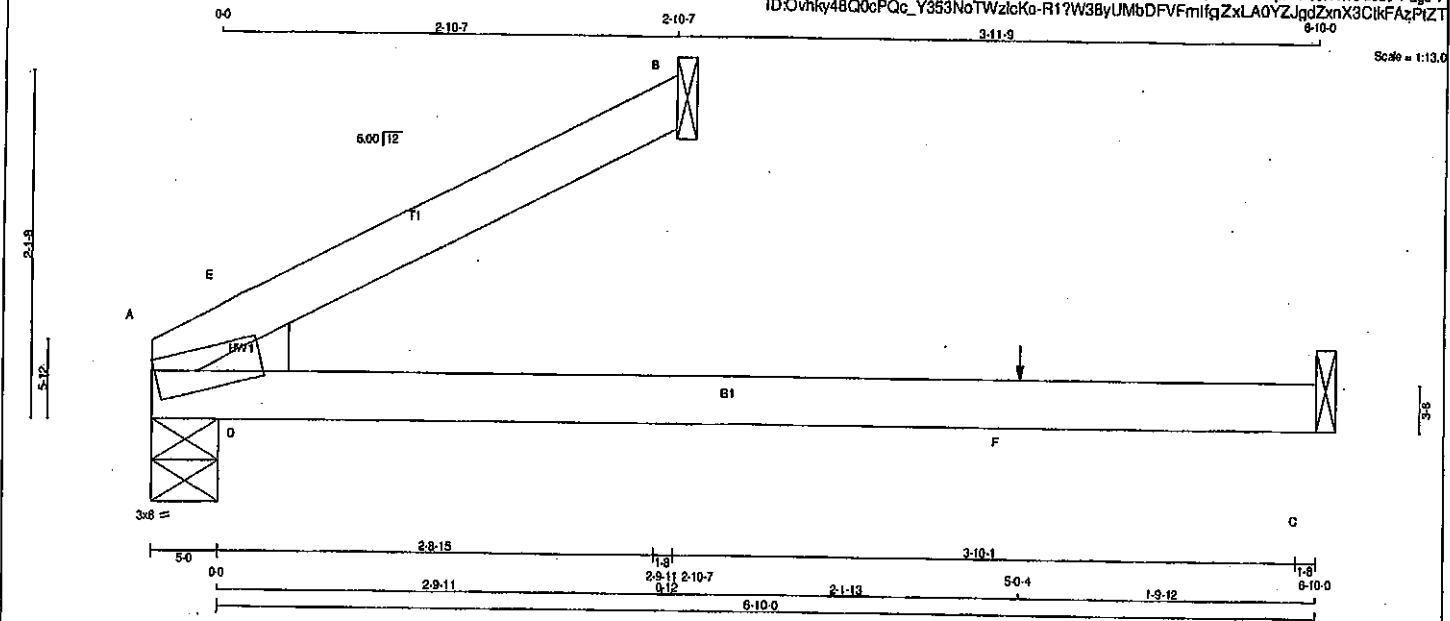
JSI GRIP = 0.13 (E) (INPUT = 0.80)
JSI METAL = 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2006483

JOB NAME 408165	TRUSS NAME J33	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A	TBMH1-m	MT20	3.0	8.0	Edge
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					

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

	FACTORED GROSS REACTION	FACTORED GROSS REACTION	INPUT BRG	REQD BRG	HEEL
	VERT	HORZ	DOWN	UP	WEDGE
JT					
A	209	0	209	0	2x4 L
B	166	0	166	0	
C	60	0	61	0	

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

	1ST CASE	MAX MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	150	89.7	0.0	0.0	0.0	61.0	0.0
B	118	75.0	0.0	0.0	0.0	43.0	0.0
C	47	4.0	0.0	0.0	0.0	43.0	0.0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, 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			
	MAX. FACTORED	FACTORED				MAX. FACTORED			
	MEMB.	FORCE	VERT. LOAD	LC1	MAX	MEMB.	FORCE	MAX	
		(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO			FROM	TO	LENGTH	FR-TO			
A-E	-113.0	-91.8	-91.8	0.18 (4)	6.25	D-E	0.163	0.00 (1)	
E-B	0.20	-91.8	-91.8	0.21 (4)	10.00				
A-D	0.0	-18.5	-18.5	0.11 (4)	10.00				
D-F	0.0	-18.5	-18.5	0.19 (4)	10.00				
F-C	0.0	-18.5	-18.5	0.19 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	5-0-4	1	1	1	FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

(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) = $L/360$ (0.24")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.02")
ALLOWABLE DEFL. (TL) = $L/360$ (0.24")
CALCULATED VERT. DEFL. (TL) = $L/904$ (0.10")

CSI: TC=0.21/1.00 (B-E:4), BC=0.19/1.00 (C-D:4), WB=0.00/1.00 (D-E:1), SSI=0.15/1.00 (A-E:4)

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

COMPANION LIVE LOAD FACTOR = 1.00

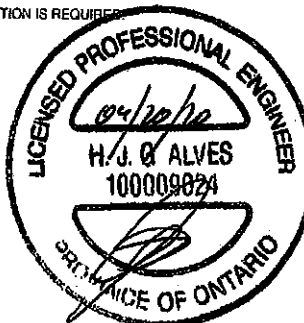
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.07 (A) (INPUT = 0.90)
JSI METAL = 0.01 (A) (INPUT = 1.00)



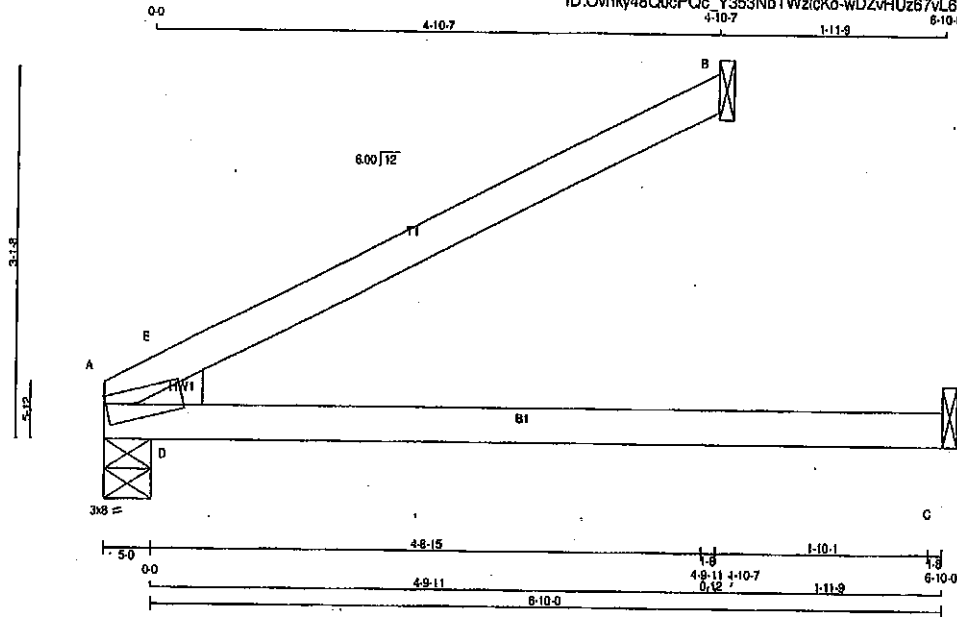
Structural component only
DWG# T-2006484

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408165	J34	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:17.9



TOTAL WEIGHT = 16 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	V	X
A	TBMH1-m	MT20	3.0	8.0		Edge

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

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

BUILDING DESIGNER										
BEARINGS										
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG		RECORD BRG		HEEL WEDGE
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			
A	314	0	314	0	0	5-0	5-0			2x4 L
B	225	0	225	0	0	1-8	1-8			
C	80	0	80	0	0	1-8	1-8			

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN COMPONENT REACTIONS					
		SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
A	223	140/0	0/0	0/0	0/0	83/0	0/0
B	157	117/0	0/0	0/0	0/0	40/0	0/0
C	81	13/0	0/0	0/0	0/0	48/0	0/0

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

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS				WEBS			
		FACTORED VERT. LOAD (PLF)	FACTORED CS1 (LC)	MAX UNBRACED LENGTH	FR-TO	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)	MAX UNBRACED LENGTH	FR-TO
A-E	73/0	-91.8	-91.8	0.12 (4)	8.25	D-E	-143/92	0.00 (1)	
E-B	0/7	-91.8	-91.8	0.38 (1)	10.00				
A-D	0/0	-18.5	-18.5	0.17 (1)	10.00				
D-C	0/0	-18.5	-18.5	0.23 (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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.24")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/455 (0.18")

CSI: TC=0.38/1.00 (B-E:1), BC=0.23/1.00 (C-D:1),
WB=0.00/1.00 (D-E:1), SSI=0.18/1.00 (B-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS 6END=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

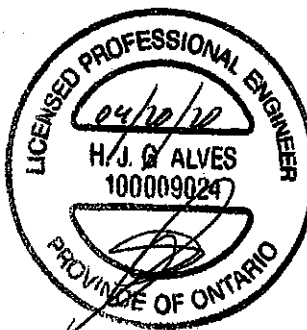
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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= 0.15 (A) (INPUT = 0.90)
JSI METAL= 0.02 (A) (INPUT = 1.00)

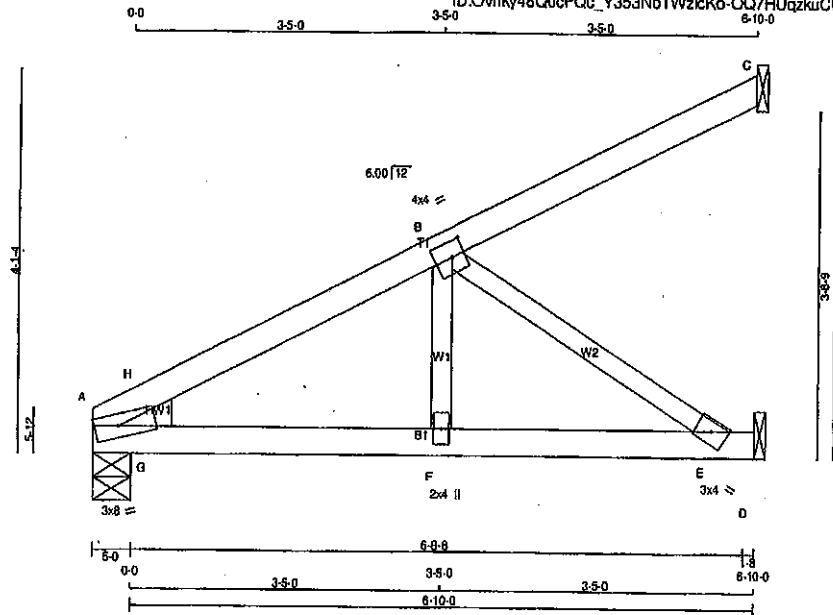


Structural component only
DWG# T-2006485

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408165	J35	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 2019 MITek Industries, Inc. Fri Apr 17 08:44:18 2020 Page 1
ID:Ovhky48Q0cPQc_Y353NoTWzlcKo-QQ7HUqzkuCUzkZw8m5bPQb5wZ6L1pBqXWMqJ3zPlZR



Scale = 1/22.7

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

PLATES (tab/plate in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A	TBMH1-m	MT20	3.0	8.0	Edge
B	TBMW-t	MT20	4.0	4.0	2.00 1.75
E	BMW-w	MT20	3.0	4.0	
F	BMW-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								
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG	HEEL WEDGE
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
A	400	0	400	0	0	5-0	5-0	2x4 L
C	125	0	125	0	0	1-8	1-8	
D	275	0	275	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS					SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
A	283	185/0	0/0	0.0	0.0	97.0	0.0
C	86	89/0	0/0	0.0	0.0	17.0	0.0
D	188	118/0	0/0	0.0	0.0	80.0	0.0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC LENGTH	FR-TO	MEMB.	WEBS		MAX. UNBRAC LENGTH	FR-TO
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	VERT. LOAD (LBS)	LC1 MAX				MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)		
A-H	-517/0	-91.8	-91.8	0.02 (1)	6.25	F-B	0/147	0.04 (4)			
H-B	-481/0	-91.8	-91.8	0.12 (1)	6.25	B-E	-518/0	0.13 (1)			
B-C	-14/0	-91.8	-91.8	0.11 (1)	6.25	G-H	-81/16	0.00 (1)			
A-G	0/424	-18.5	-18.5	0.13 (1)	10.00						
G-F	0/424	-18.5	-18.5	0.14 (1)	10.00						
F-E	0/424	-18.5	-18.5	0.24 (1)	10.00						
E-D	0/0	-18.5	-18.5	0.17 (1)	10.00						

TOTAL WEIGHT = 3 X 23 = 68 LB

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOY CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 088-09, CSA 086-14

- TPC 2011, TPC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.24")

CALCULATED VERT. DEFL.(LL) = L/999 (0.01")

ALLOWABLE DEFL.(TL) = L/360 (0.24")

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

CSI: TC=0.12/1.00 (B-H:1), BC=0.24/1.00 (E-F:1),

WB=0.13/1.00 (B-E: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 (PSI)	SECTION (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 = 0.35 (E) (INPUT = 0.90)

JSI METAL = 0.19 (E) (INPUT = 1.00)



Structural component only
DWG# T-2006486

LUL/LUS/LJS/HUS/HHUS/HGUS

Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of
a) easier installation, b) higher capacities, c) lower installed
cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 258–259.

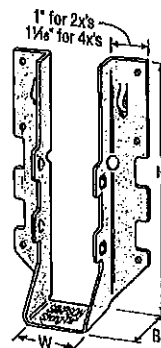
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

Installation:

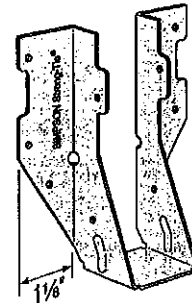
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

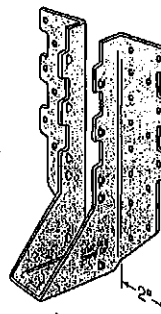
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



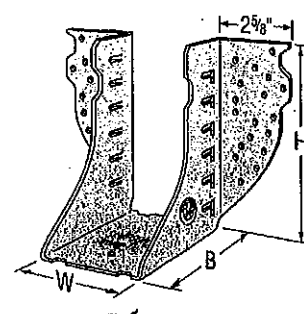
✓ LUS28



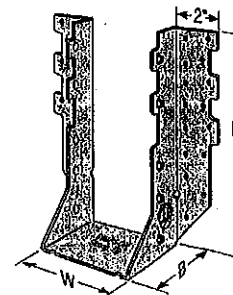
LU26L



✓ HUS210
(HUS26, HUS28,
and HHUS similar)



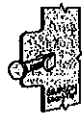
✓ HGUS28-2



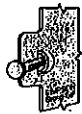
✓ HHUS210-2



Double-Shear
Nailing
Top View

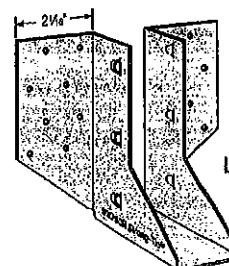
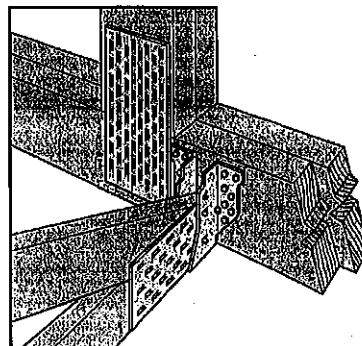


Double-Shear
Nailing
Side View;
Do not
bend tab



Dome Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,680

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



LJS26DS

LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options information on pp. 125–127.

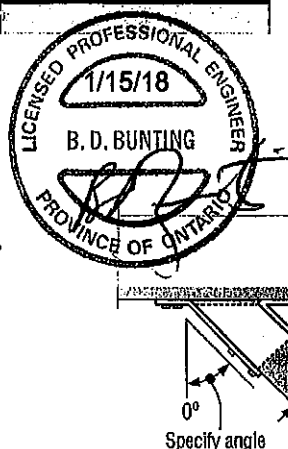
HHUS — Sloped and/or Skewed Seat

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

HGUS — Skewed Seat

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

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



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

Standard and Double-Shear Joist Hangers (cont.)

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d_g^3	Header	Joist	D, Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								($K_D = 1.15$)	($K_D = 1.00$)	($K_D = 1.15$)	($K_D = 1.00$)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Single 2x Sizes											
LUS24	18	1 1/8	3 1/2	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
LU24L	22	1 1/8	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	316	723	287	514
LU24L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	360	1020	320	725
LU26L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	460	1254	442	822
LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	720	1605	645	1140
LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	1420	2170	1290	1630
HUS26	16	1 1/8	5 1/4	3	3 1/4	(14) 16d	(6) 16d	632	965	574	725
HUS26	16	1 1/8	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2705	4940	2065	3875
LJS26DS	18	1 1/8	5	3 1/2	4 1/4	(16) 16d	(6) 16d	1130	2197	920	1724
LJS26DS	18	1 1/8	5	3 1/2	4 1/4	(16) 16d	(6) 16d	2055	4265	1480	4115
HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	914	1897	649	1831
HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	2685	6625	2685	5700
LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1196	2951	1196	2535
LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
LUS28	18	1 1/8	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d	507	972	454	689
LUS28	18	1 1/8	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d	1420	2520	1290	1790
HUS28	16	1 1/8	7 1/4	3	6 1/4	(22) 16d	(8) 16d	632	1121	574	796
HUS28	16	1 1/8	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3805	5365	2675	4345
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	1604	2366	1190	1933
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1474	3419	1474	3073
LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
LUS210	18	1 1/8	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	507	1110	454	787
LUS210	18	1 1/8	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210	18	1 1/8	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	632	1239	574	983

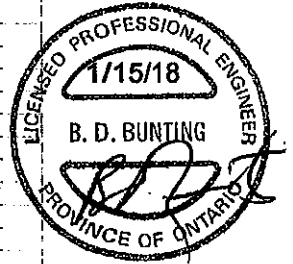
1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_g is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

Face-Mount Hangers

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _g ³	Header	Joist	D, Flr-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15)	(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435
								3.71	8.99	2.62	6.38
SS LUS26-2	18	3 1/8	4 1/8	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
HHUS26-2	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	2850	7335	2065	5205
								12.68	32.83	9.20	23.16
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
SS LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS28-2	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
SS LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000
								20.77	42.97	18.84	31.14
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
Triple 2x Sizes											
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-3	12	4 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	4670	9670	4235	6865
								20.77	43.02	18.84	30.54
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
								30.43	65.14	21.60	46.26
Quadruple 2x Sizes											
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
HHUS210-4	14	6 1/8	8 1/8	3	7 1/8	(30) 16d	(10) 16d	4670	10155	4235	7210
								20.77	45.17	18.84	32.07
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
								30.43	65.14	21.60	46.26
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS214-4	12	6 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80
4x Sizes											
LUS48	18	3 1/8	4 1/8	2	3 1/8	(4) 16d	(4) 16d	1720	2595	1545	1920
								7.65	11.54	6.87	8.54
HHUS48	14	3 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	2540	7335	2065	5205
								11.30	32.83	9.20	23.16
HGUS48	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355
								19.51	39.81	13.83	28.27
LUS48	18	3 1/8	6 1/8	2	3 1/8	(6) 16d	(4) 16d	1720	3325	1545	2575
								7.65	14.79	6.87	11.45
HHUS48	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8940	2675	6345
								16.75	39.77	11.90	28.22
HGUS48	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
								27.00	57.74	19.17	40.99
LUS410	18	3 1/8	8 1/8	2	5 1/8	(8) 16d	(6) 16d	2580	4500	2320	3195
								11.48	20.02	10.32	14.21
HGUS410	12	3 1/8	9	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270
								30.43	62.34	21.60	45.69
HGUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
								33.98	66.70	24.13	47.35
HGUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645
								45.06	72.95	32.00	51.80



Plated Truss Connectors

See footnotes on p. 258.