

ASPHALT SHINGLES
12" FINISH O.H
R.T.M.C.
2x6 EXTERIOR WALLS
2X6 FASCIA BOARD

HARDWARE:

HUS26-2 -(XX)
LJS26DS -(V)
LUS24 -(O)

DENOTE:

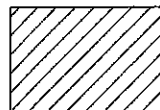
ALL B- 2-2X10 (FLUSH)

* -24" RAISED
FASCIA ONLY

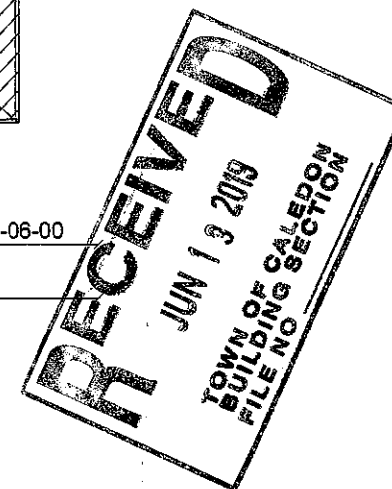
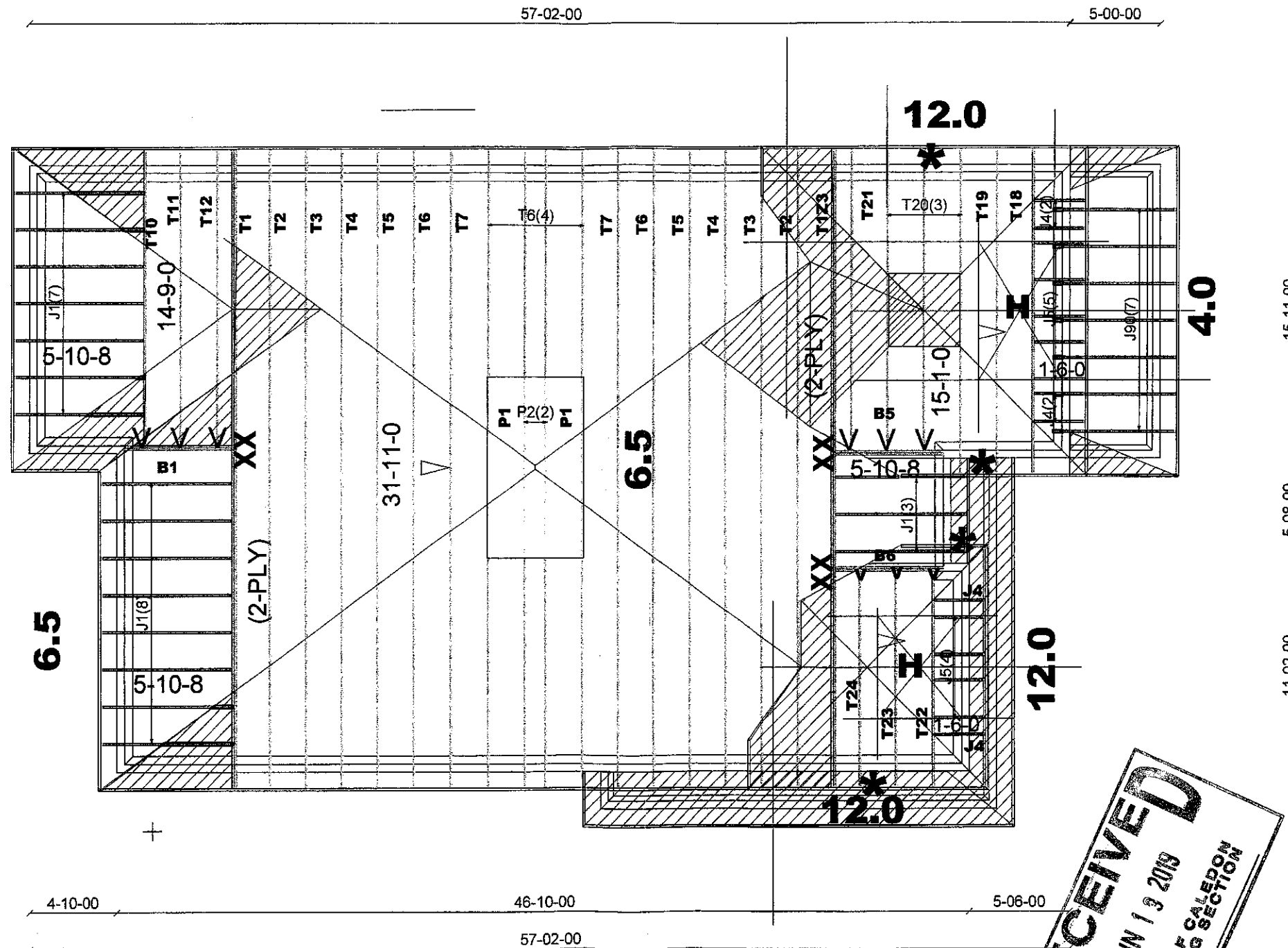
H -24" RAISED CEILING

THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

DENOTES:
CONVENTIONAL
FRAMING



9/12 PITCHES (TYP.)
UNLESS NOTED



ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART9 OF THE OBC.LATEST EDITION
ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"X4"SPF@24"o.c.
WITH A 2"X4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT.
POSTS LONGER THAN 6' TO BE Laterally Braced SO THAT THE DISTANCE
BETWEEN END POINTS AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

DESIGN LOADS:

GROUND SNOW LOAD Ss= 1.8kPa
TC DEAD 6 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF

M6256



Job Track: 50120
Plan Log: 200598
Layout ID: 403060

Builder / Location:
GREEN PARK HOMES / Caledon
Project: LAMBERTS LANE HOME CORP.
Date: 5/9/2019 Sales: Mario DiCano Designer: Sunny Jane

Model / Elevation:
KINMOUNT 6A/3

Milek ver 8.2.3.228

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



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERTS LANE HOME CORP.
 Location: Caledon
 Model: KINMOUNT 6A
 Lot #:
 Elevation: 3

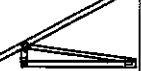
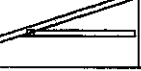
Job Track: 50120
 PlanLog: 200598
 Layout ID: 403060
 Ref #
 Page: 1 of 2
 Date: 05/09/2019
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	9 /12	31-11-00	4-05-02	2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	339.54 204.00		
	1 2-ply	T123 Hip Girder	9 /12	31-11-00	4-05-02	2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	339.54 204.00		
	2	T2 Hip	9 /12	31-11-00	5-05-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	254.66 160.33		
	2	T3 Hip	9 /12	31-11-00	6-06-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	283.12 177.00		
	2	T4 Hip	9 /12	31-11-00	7-07-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	294.24 187.33		
	2	T5 Hip	9 /12	31-11-00	8-08-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	307.46 193.00		
	6	T6 Hip	9 /12	31-11-00	9-09-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	966.5 610.00		
	2	T7 Hip	9 /12	31-11-00	10-10-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	334.92 208.00		
	1	T10 Hip Girder	9 /12	14-09-00	4-04-14	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	73.14 47.67		
	1	T11 Hip	9 /12	14-09-00	5-05-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	64.66 42.50		
	1	T12 Hip	9 /12	14-09-00	6-06-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	69.72 46.67		
	1	T18 Hip Girder	12 /12	15-01-00	5-04-08	2 x 4	1-03-08 1-03-08	3-10-08 3-10-08	94.69 61.50		
	1	T19 Hip	12 /12	15-01-00	7-04-08	2 x 4	1-03-08 1-03-08	3-10-08 3-10-08	94.02 60.83		
	3	T20 Hip	12 /12	15-01-00	9-04-08	2 x 4	1-03-08	3-10-08 3-10-08	247.52 159.00		

		DELIVERY SHIPLIST	
		Lumber Yard: TAMARACK LUMBER Builder: GREEN PARK HOMES Project: LAMBERTS LANE HOME CORP. Location: Caledon Model: KINMOUNT 6A Lot #: Elevation: 3	Job Track: 50120 PlanLog: 200598 Layout ID: 403060 Ref # Page: 2 of 2 Date: 05/09/2019 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T21 Hip	12 / 12	15-01-00	7-04-08	2 x 4	1-03-08	3-10-08 3-10-08	85.26 54.83		
	1	T22 Hip Girder	12 / 12	10-04-00	5-04-08	2 x 4	1-03-08 1-03-08	3-10-08 3-10-08	69.54 46.33		
	1	T23 Hip	12 / 12	10-04-00	7-04-08	2 x 4	1-03-08 1-03-08	3-10-08 3-10-08	81.01 53.67		
	1	T24 Hip	12 / 12	10-04-00	8-07-00	2 x 6 2 x 4	1-03-08 1-03-08	3-10-08 3-10-08	68.34 43.17		
	2	P1 Piggyback	9 / 12	9-09-05	2-02-00	2 x 4			55.84 36.00		
	2	P2 Piggyback	9 / 12	9-09-05	3-03-00	2 x 4			54.88 36.67		
	18	J1 Jack-Open	6.5 / 12	5-10-08	4-04-14	2 x 4	1-03-08	1-02-11 4-04-14	389.3 246.00		
	6	J4 Jack-Open	12 / 12	1-06-00	5-04-08	2 x 4	1-03-08	3-10-08 5-04-08	81.06 56.00		
	9	J5 Jack-Open	12 / 12	1-06-00	3-04-08	2 x 4	1-03-08	1-10-08 3-04-08	86.6 63.00		
	7	J90 Jack-Open	4 / 12	5-05-08	2-06-11	2 x 4	1-03-08	3-15 2-01-12	101.14 65.33		

TOTAL # TRUSS= 76 TOTAL BFT OF ALL TRUSSES= 3062.83 BFT. TOTAL WEIGHT OF ALL TRSSES 4836.7 LBS

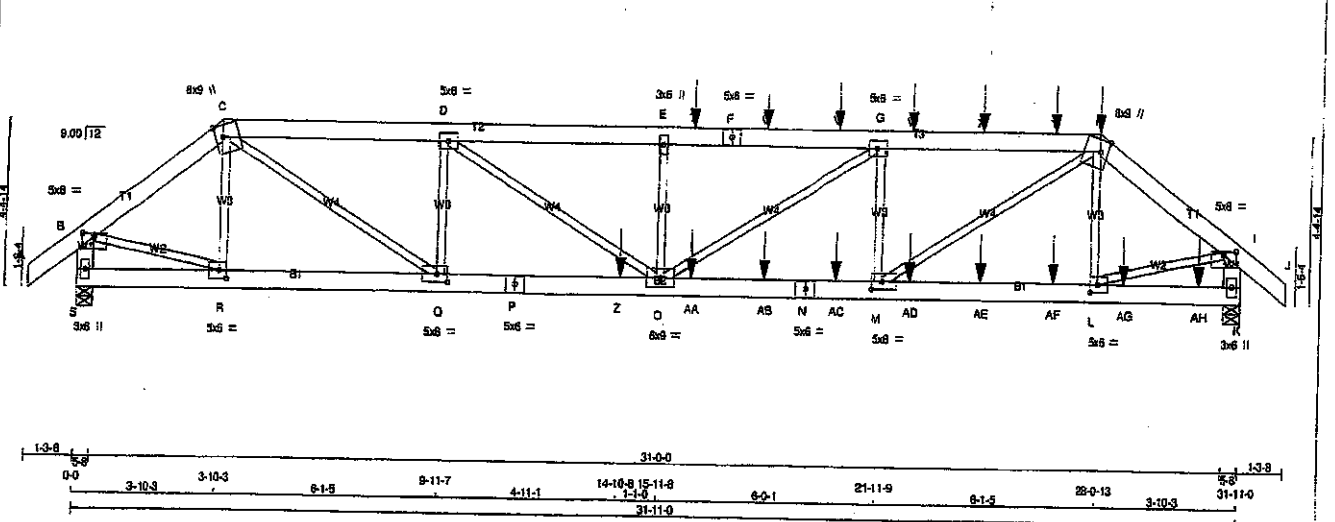
HARDWARE

QTY	TYPE	MODEL	LENGTH
3	Hardware	HGUS26-2	
9	Hardware	LJS26DS	

TOTAL NUMBER OF ITEMS= 12

JOB NAME 403045	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.300 S Apr 23 2019 MTEK Industries, Inc. Tue May 14 10:41:19 2019 Page 1
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 1-3-8 0-0 3-10-3 3-10-3 6-1-5 9-11-7 6-0-1 15-11-8 6-0-1 21-11-9 6-1-5 28-0-13 3-10-3 31-11-0 33-2-8
 Scale = 1/32.0



TOTAL WEIGHT = 2 X 170 = 340 lb

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x8	DRY	No.2
C - F	2x8	DRY	No.2
F - H	2x8	DRY	No.2
H - J	2x8	DRY	No.2
S - B	2x8	DRY	No.2
K - I	2x8	DRY	No.2
S - P	2x8	DRY	1850F 1.5E
P - N	2x8	DRY	1850F 1.5E
N - K	2x8	DRY	1850F 1.5E

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

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

WEBS : (0.122'X3') SPIRAL NAILS
 2x3 1 6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	8.0	1.25	4.00
C TTVW-m	MT20	8.0	9.0	3.75	2.50
D TMVW-l	MT20	5.0	8.0		
E TMVW-w	MT20	3.0	8.0		
F TS-l	MT20	5.0	8.0		
G TMVW-l	MT20	5.0	8.0		
H TTVW-m	MT20	8.0	9.0	3.75	2.50
I TMVW-p	MT20	5.0	8.0	1.25	4.00
K BMVW-l	MT20	3.0	8.0		
L BMVW-l	MT20	5.0	8.0	2.50	2.50
M ES-l	MT20	5.0	8.0		
N ES-l	MT20	5.0	8.0		
O BMVW-w-l	MT20	5.0	8.0		
P BS-l	MT20	5.0	8.0		
Q BMVW-l	MT20	5.0	8.0	2.50	3.50
R BMVW-l	MT20	5.0	8.0	2.50	2.50
S BMV-l	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	HORZ	UP/LIFT	IN-SX
S	4021	0	0	5-8
K	4602	0	0	5-8

UNFACTORED REACTIONS	1ST CASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW
S	2981	1720 / 0
K	3421	1948 / 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 = 3.44 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO				FR-TO		
A-B	0 / 44	-102.1	-102.1 0.04 (1)	R-C	-783 / 0	0.10 (1)
B-C	-4484 / 0	-102.1	-102.1 0.10 (1)	C-Q	0 / 5495	0.88 (1)
C-D	-8178 / 0	-102.1	-102.1 0.28 (1)	Q-D	-2320 / 0	0.31 (1)
D-E	-10720 / 0	-102.1	-102.1 0.32 (1)	D-O	0 / 3041	0.38 (1)
E-F	-10720 / 0	-102.1	-102.1 0.44 (1)	C-E	-709 / 0	0.09 (1)
F-T	-10720 / 0	-102.1	-102.1 0.44 (1)	C-G	0 / 2701	0.33 (1)
F-U	-10720 / 0	-102.1	-102.1 0.44 (1)	M-H	-2599 / 0	0.35 (1)
U-V	-10720 / 0	-102.1	-102.1 0.44 (1)	L-H	0 / 5137	0.84 (1)
V-G	-10720 / 0	-102.1	-102.1 0.44 (1)	B-R	-586 / 388	0.08 (1)
G-W	-8483 / 0	-102.1	-102.1 0.35 (1)	L-I	0 / 4288	0.53 (1)
W-X	-8483 / 0	-102.1	-102.1 0.35 (1)			
X-Y	-8483 / 0	-102.1	-102.1 0.35 (1)			
Y-H	-8483 / 0	-102.1	-102.1 0.35 (1)			
H-I	-5213 / 0	-102.1	-102.1 0.11 (1)			
I-J	0 / 44	-102.1	-102.1 0.04 (1)			
S-B	-3959 / 0	0.0	0.0 0.14 (1)			
K-I	-4547 / 0	0.0	0.0 0.18 (1)			
Q-R	0 / 0	-38.5	-38.5 0.03 (3)			
R-Q	0 / 3554	-38.5	-38.5 0.25 (1)			
Q-P	0 / 8178	-38.5	-38.5 0.70 (1)			
P-Z	0 / 8178	-38.5	-38.5 0.70 (1)			
Z-O	0 / 8178	-38.5	-38.5 0.70 (1)			
O-AA	0 / 8483	-38.5	-38.5 0.55 (1)			
AA-AB	0 / 8483	-38.5	-38.5 0.55 (1)			
AB-N	0 / 8483	-38.5	-38.5 0.55 (1)			
N-AC	0 / 8483	-38.5	-38.5 0.55 (1)			
AC-M	0 / 8483	-38.5	-38.5 0.55 (1)			
M-AD	0 / 4140	-38.5	-38.5 0.24 (1)			
AD-AE	0 / 4140	-38.5	-38.5 0.24 (1)			
AE-AF	0 / 4140	-38.5	-38.5 0.24 (1)			
AF-L	0 / 4140	-38.5	-38.5 0.24 (1)			
L-AG	0 / 0	-38.5	-38.5 0.08 (2)			
AG-AH	0 / 0	-38.5	-38.5 0.08 (2)			
AH-K	0 / 0	-38.5	-38.5 0.08 (2)			

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
	JT	28-9-13	-49	-55	-	FRONT	VERT	DEAD	-	-
	H	28-9-13	-282	-282	-	FRONT	VERT	SNOW	-	-
	T	18-9-12	-123	-123	-	FRONT	VERT	TOTAL	-	-
	U	18-9-12	-123	-123	-	FRONT	VERT	TOTAL	-	-

DESIGN CRITERIA

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

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 8.0 PSF
 BOT CH. LL = 10.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN/C

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

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

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF NBC 2018, CBC 2012
 - CSA 086-09, CSA 085-14
 - TFC 2011, TFC 2014

(5% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.25")
 ALLOWABLE DEFL.(TL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(TL) = L/921 (0.42")

CSI: TC=0.44/1.00 (E-Q:1), BC=0.70/1.00 (O-Q:1),
 WB=0.68/1.00 (O-Q:1), SS=0.68/1.00 (O-Q:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

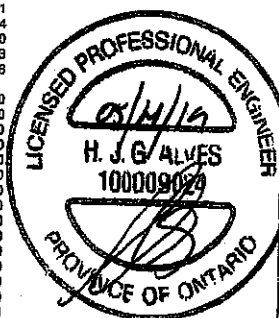
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 788 1987 1858

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (L) (INPUT = 0.90)
 JSI METAL= 0.91 (N) (INPUT = 1.50)

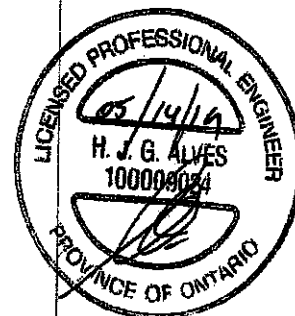
Structural component only
 DWG# T-1911482 CONTINUED ON PAGE 2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
403045	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.300 5 Apr 23 2019 MITek Industries, Inc. Tue May 14 10:41:19 2019 Page 2
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FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LG1	MAX-	MAX+	FACE	DIR.	TYPE	HESL	CONN.
V	20-9-12	-123	-123	---	FRONT	VERT	TOTAL	---	---
W	22-9-12	-123	-123	---	FRONT	VERT	TOTAL	---	---
X	24-9-12	-123	-123	---	FRONT	VERT	TOTAL	---	---
Y	26-9-12	-123	-123	---	FRONT	VERT	TOTAL	---	---
Z	14-10-8	-2332	-2332	---	FRONT	VERT	TOTAL	---	---
AA	16-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---
AB	18-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---
AC	20-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---
AD	22-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---
AE	24-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---
AF	26-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---
AG	28-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---
AH	30-9-12	-55	-70	---	FRONT	VERT	TOTAL	---	---



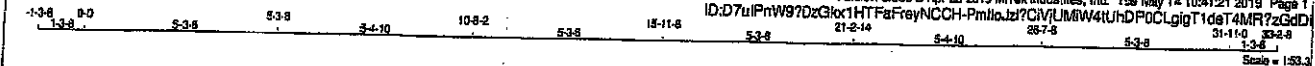
Structural component only
DWG# T-1911482

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
403045	T2	2	1	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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ID:D7uIPnW97Dx3Kc1HTFaFreyNCCCH-PmloJz?Cv/UMW4(UhDPoCLgigT1deT4MR7zGdD



CHORDS	SIZE	DRY	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
J - K	2x4	DRY	No.2
K - L	2x4	DRY	No.2
L - M	2x4	DRY	No.2
M - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMWV-p	MT20	5.0	8.0	1.50 3.50
C TWWV-m	MT20	8.0	9.0	Edge 2.00
D TMWV-t	MT20	4.0	4.0	
E TMWV-w	MT20	2.0	4.0	
F TS-t	MT20	3.0	8.0	
G TMWV-t	MT20	4.0	4.0	
H TWWV-m	MT20	8.0	9.0	Edge 2.00
I TMWV-p	MT20	5.0	8.0	1.50 3.50
K BMV1-p	MT20	4.0	4.0	2.00 Edge
L BMWV-t	MT20	5.0	8.0	2.50 2.75
M BMWV-t	MT20	5.0	8.0	
N BS-t	MT20	3.0	8.0	
O BMWV-t	MT20	4.0	9.0	
P BS-t	MT20	3.0	8.0	
Q BMWV-t	MT20	5.0	8.0	
R BMWV-t	MT20	5.0	8.0	2.50 2.75
S BMV1-p	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

FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ
S	2385 0	2385 0	0 5-8
K	2385 0	2385 0	0 5-8

UNFACTORED REACTIONS

1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	1773	1007 / 0	335 / 0	0 / 0	0 / 0	431 / 0
K	1773	1007 / 0	335 / 0	0 / 0	0 / 0	431 / 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 = 3.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX INBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 42	-102.1 -102.1	0.14 (1)	10.00	R-C	-195 / 98	0.09 (1)
B-C	-2429 / 0	-102.1 -102.1	0.73 (1)	3.57	C-D	0 / 1867	0.38 (1)
C-D	-3138 / 0	-102.1 -102.1	0.65 (1)	3.34	D-E	-961 / 0	0.43 (1)
D-E	-3494 / 0	-102.1 -102.1	0.69 (1)	3.14	E-F	0 / 500	0.11 (1)
E-F	-3494 / 0	-102.1 -102.1	0.89 (1)	3.14	F-G	-497 / 0	0.22 (1)
F-G	-3494 / 0	-102.1 -102.1	0.89 (1)	3.14	G-H	0 / 500	0.11 (1)
G-H	-3138 / 0	-102.1 -102.1	0.85 (1)	3.34	H-I	-961 / 0	0.43 (1)
H-I	-2429 / 0	-102.1 -102.1	0.73 (1)	3.57	I-J	0 / 1667	0.38 (1)
I-J	0 / 42	-102.1 -102.1	0.14 (1)	10.00	J-K	-195 / 98	0.09 (1)
J-K	-2301 / 0	0.0 0.0	0.24 (1)	5.62	K-L	0 / 1987	0.45 (1)
K-L	-2301 / 0	0.0 0.0	0.24 (1)	5.62	L-I	0 / 1987	0.45 (1)
R	0 / 0	-38.5 -38.5	0.21 (3)	10.00			
A-B	0 / 1988	-38.5 -38.5	0.47 (2)	10.00			
C-D	0 / 3138	-38.5 -38.5	0.60 (1)	10.00			
E-F	0 / 3138	-38.5 -38.5	0.60 (1)	10.00			
G-H	0 / 3138	-38.5 -38.5	0.60 (1)	10.00			
I-J	0 / 3138	-38.5 -38.5	0.60 (1)	10.00			
K-L	0 / 1806	-38.5 -38.5	0.47 (2)	10.00			
M	0 / 0	-38.5 -38.5	0.21 (3)	10.00			

TOTAL WEIGHT = 2 X 134 = 268 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012
- CSA 086-08, CSA 086-14
- TPC 2011, TPC 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/960 (1.06")
CALCULATED VERT. DEFL. (LL) = L/999 (0.18")
ALLOWABLE DEFL. (TL) = L/960 (1.06")
CALCULATED VERT. DEFL. (TL) = L/999 (0.29")

CSL TC=0.79/1.00 (H-I), 80=0.80/1.00 (O-Q),
WB=0.45/1.00 (H-I), SS=0.28/1.00 (C-D-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

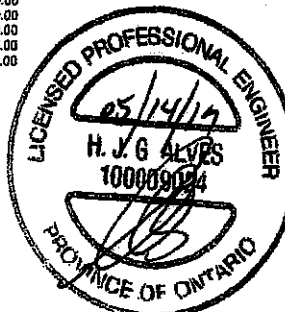
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSF) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1867 1868

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

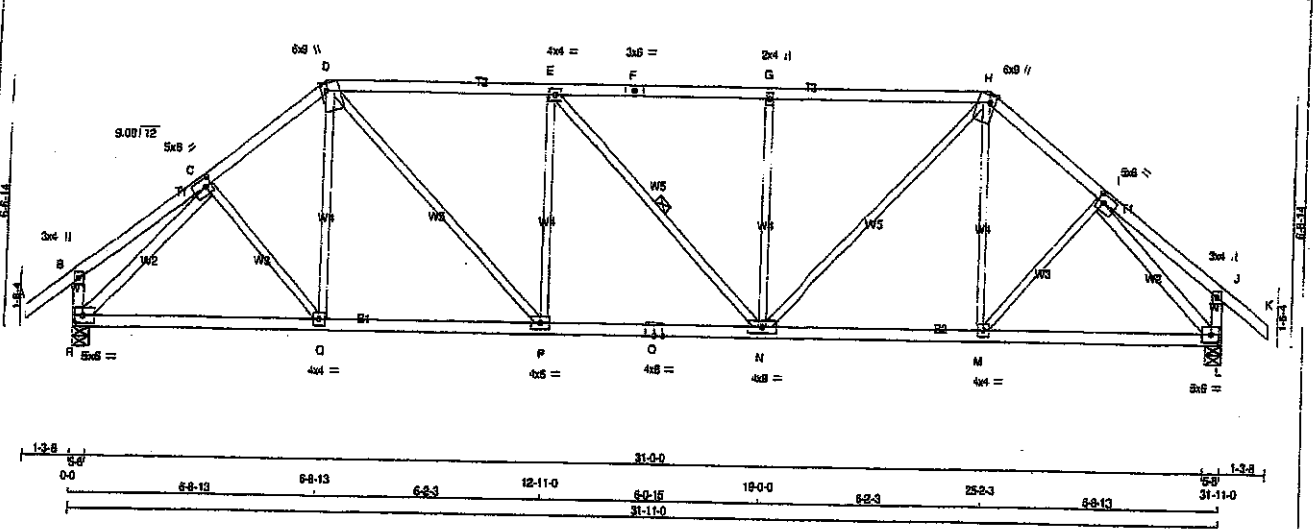
JSI GRIP = 0.88 (L) (INPUT = 0.90)
JSI METAL = 0.98 (P) (INPUT = 1.00)



Structural component only
DWG# T-1911484

JOB NAME 403045	TRUSS NAME T3	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tannerack Roof Truss, Burlington		TRUSS DESC.		Version 8.300 5 Apr 23 2019 MTak Industries, Inc. Tue May 14 10:41:22 2019 Page 1	

ID: D7utPnW9?DzGkx1HTFaFrayNCH-lys7?zNiWqMKexu4nCIERYA7i0DPHmt7qv_RzGdDh
 1-3-8 0-0 3-5-11 3-5-11 3-3-3 9-5-13 6-2-3 12-11-0 19-0-0 6-2-3 25-2-3 3-3-3 28-5-5 3-5-11 31-11-0 33-2-8
 Scale = 1:53.3



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	3.0	4.0	2.50	2.00
C	TMW-w	MT20	5.0	6.0	2.50	2.00
D	TTWW-m	MT20	6.0	9.0	Edge	2.00
E	TMW-l	MT20	4.0	4.0		
F	TS-l	MT20	3.0	6.0		
G	TMW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	6.0	9.0	Edge	2.00
I	TMW-l	MT20	5.0	6.0	2.50	2.00
J	TMW-p	MT20	3.0	4.0		
L	BMW-l	MT20	5.0	6.0	2.50	2.75
M	BMW-w	MT20	4.0	4.0		
N	BMW-w	MT20	4.0	9.0		
O	BS-l	MT20	4.0	6.0		
P	BMW-l	MT20	4.0	6.0		
Q	BMW-w	MT20	4.0	4.0		
R	BMW-l	MT20	5.0	6.0	2.50	2.75

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

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

BUILDING DESIGNER

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
R	2385	0	2385	0
L	2385	0	2385	0

UNFACTORED REACTIONS

	1ST LOSE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
R	1773	1007 / 0
L	1773	1007 / 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 = 3.34 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	FACTORED	MAX. UNBRACED LENGTH
FR-TO		FROM TO	CS1 (LQ)	FR-TO		FROM TO	CS1 (LQ)
A-B	0 / 42	-102.1 -102.1	0.14 (1)	C-Q	0 / 201	0.05 (2)	
B-C	0 / 21	-102.1 -102.1	0.16 (1)	Q-D	0 / 237	0.08 (3)	
C-D	-2441 / 0	-102.1 -102.1	0.25 (1)	D-P	0 / 1265	0.28 (1)	
D-E	-2822 / 0	-102.1 -102.1	0.79 (1)	P-E	-677 / 0	0.48 (1)	
E-F	-2820 / 0	-102.1 -102.1	0.78 (1)	E-N	-2 / 0	0.00 (1)	
F-G	-2820 / 0	-102.1 -102.1	0.78 (1)	N-G	-676 / 0	0.48 (1)	
G-H	-2820 / 0	-102.1 -102.1	0.78 (1)	H-N	0 / 1262	0.28 (1)	
H-I	-2441 / 0	-102.1 -102.1	0.25 (1)	I-M	0 / 237	0.08 (3)	
I-J	0 / 21	-102.1 -102.1	0.16 (1)	M-I	0 / 201	0.05 (2)	
J-K	0 / 42	-102.1 -102.1	0.14 (1)	R-C	-2698 / 0	0.77 (1)	
R-B	-276 / 0	0.0 0.0	0.03 (1)	L-L	-2698 / 0	0.77 (1)	
L-J	-276 / 0	0.0 0.0	0.03 (1)				
R-Q	0 / 1809	-38.5 -38.5	0.55 (2)				
Q-P	0 / 1933	-38.5 -38.5	0.57 (2)				
P-O	0 / 2322	-38.5 -38.5	0.59 (1)				
O-N	0 / 2322	-38.5 -38.5	0.59 (1)				
N-M	0 / 1934	-38.5 -38.5	0.57 (2)				
M-L	0 / 1809	-38.5 -38.5	0.55 (2)				

TOTAL WEIGHT = 2 X 142 = 283 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.0 PSF
 BOT CH. LL = 10.5 PSF
 BOT CH. DL = 7.0 PSF
 TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:
 PART 9 OF NBCC 2018, CBC 2012
 CSA 086-18, CSA 086-14
 TPIC 2011, TPIC 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
 ALLOWABLE DEFL.(TL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CS1: TC=0.79/1.00 (D-E-1), BC=0.59/1.00 (N-P-1), WB=0.77/1.00 (L-L-1), SB=0.29/1.00 (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

AUTOSOLVEHEELS OFF

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

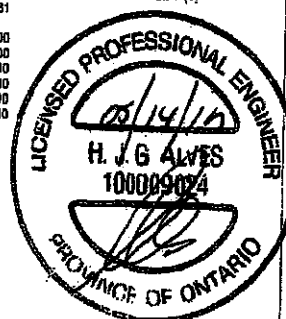
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1567 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

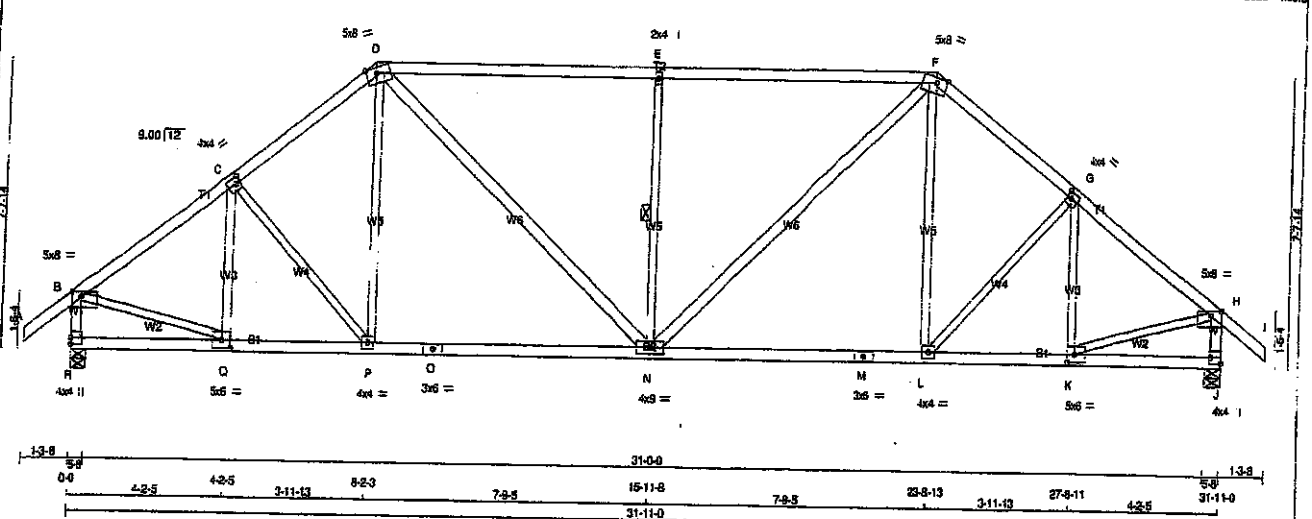
SI GRIP=0.89 (P) (INPUT=0.90)
 SI METAL=0.73 (C) (INPUT=1.00)



Structural component only
 DWG# T-1911485

JOB NAME: 403045 TRUSS NAME: T4 QUANTITY: 2 PLY: 1 JOB DESC: GREEN PARK HOMES TRUSS DESC: DRWG NO. 15-11-8

Version 8.300.9 Apr 23 2019 Mitek Industries, Inc. Tue May 14 10:41:23 2019 Page 1
ID: D7uPnW97DzGkxHTFaPrayNCCH-L6QVO?_?WpyDyoV4dJhymeVIT9Ms6MRw6nZS5Wz3dDg
15-11-8 7-9-5 23-8-13 3-11-13 27-9-11 4-2-5 31-1-0 31-1-0
Scale = 1:32



LUMBER

N. L. & A. RULES

CHORDS	SIZE	LUMBER
A - D	2x4	DRY No.2
D - F	2x4	DRY No.2
F - I	2x4	DRY No.2
R - B	2x4	DRY No.2
J - H	2x4	DRY No.2
R - O	2x4	DRY No.2
O - M	2x4	DRY No.2
M - J	2x4	DRY No.2

ALL WEBS	2x3	DRY No.2
EXCEPT		
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 TMW-p	MT20	5.0	8.0	1.50	3.50
C TMW-w	MT20	4.0	4.0	2.00	1.50
D TMW-m	MT20	5.0	8.0	Edge	3.50
E TMW-w	MT20	2.0	4.0		
F TMW-m	MT20	5.0	8.0	Edge	3.50
G TMW-w	MT20	4.0	4.0	2.00	1.50
H TMW-p	MT20	5.0	8.0	1.50	3.50
J BMW-p	MT20	4.0	4.0	2.00	Edge
K BMW-w	MT20	5.0	8.0	2.50	2.50
L BMW-w	MT20	4.0	4.0		
M BS-t	MT20	3.0	8.0		
N BMW-w	MT20	4.0	4.0		
O BS-t	MT20	3.0	8.0		
P BMW-w	MT20	4.0	4.0		
Q BMW-w	MT20	5.0	8.0	2.50	2.50
R BMW-p	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	COWN	HORZ	IN-SX
R	2385	0	0	5-8
J	2385	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1773	1007 / 0	335 / 0	0 / 0	0 / 0	431 / 0	0 / 0
J	1773	1007 / 0	335 / 0	0 / 0	0 / 0	431 / 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 = 2.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

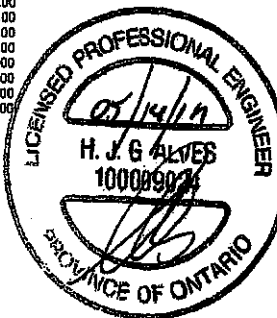
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

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)	LC1	MAX. CS1 (LC)	UNBRACED LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	Q-C	410 / 0	0.13 (1)			
B-C	-2391 / 0	-102.1	-102.1	0.29 (1)	4.21	C-P	-59 / 0	0.05 (1)			
C-D	-2377 / 0	-102.1	-102.1	0.28 (1)	4.22	P-D	0 / 353	0.08 (2)			
D-E	-2561 / 0	-102.1	-102.1	1.00 (1)	2.73	D-N	0 / 939	0.15 (1)			
E-F	-2561 / 0	-102.1	-102.1	1.00 (1)	2.73	N-E	-977 / 0	0.36 (1)			
F-G	-2377 / 0	-102.1	-102.1	0.28 (1)	4.22	N-F	0 / 939	0.15 (1)			
G-H	-2391 / 0	-102.1	-102.1	0.29 (1)	4.21	L-F	0 / 353	0.08 (2)			
H-I	0 / 42	-102.1	-102.1	0.14 (1)	10.00	L-G	-89 / 0	0.05 (1)			
I-J	-2311 / 0	0.0	0.0	0.24 (1)	5.82	K-G	-410 / 0	0.13 (1)			
J-K	-2311 / 0	0.0	0.0	0.24 (1)	5.82	B-Q	0 / 2012	0.45 (1)			
K-L	0 / 0	-38.5	-38.5	0.12 (3)	10.00	K-H	0 / 2012	0.45 (1)			
L-M	0 / 1935	-38.5	-38.5	0.50 (2)	10.00						
M-N	0 / 1879	-38.5	-38.5	0.82 (2)	10.00						
N-O	0 / 1879	-38.5	-38.5	0.82 (2)	10.00						
O-P	0 / 1879	-38.5	-38.5	0.82 (2)	10.00						
P-Q	0 / 1879	-38.5	-38.5	0.82 (2)	10.00						
Q-R	0 / 1935	-38.5	-38.5	0.50 (2)	10.00						
R-S	0 / 0	-38.5	-38.5	0.12 (3)	10.00						



TOTAL WEIGHT = 2 X 147 = 294 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 32.5 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2015, NBC 2012
- CSA 688-09, CSA 688-14
- TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.06")
CALCULATED VERT. DEFL. (LL) = L/999 (0.13")
ALLOWABLE DEFL. (TL) = L/360 (1.06")
CALCULATED VERT. DEFL. (TL) = L/999 (0.23")

CS1: TC=1.00/1.00 (E-F-1), BC=0.82/1.00 (N-P-2),
WB=0.45/1.00 (B-C-1), SS=0.39/1.00 (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
MT20 616 354 1667 786 1997 1666

PLATE PLACEMENT TOL = 0.250 inches

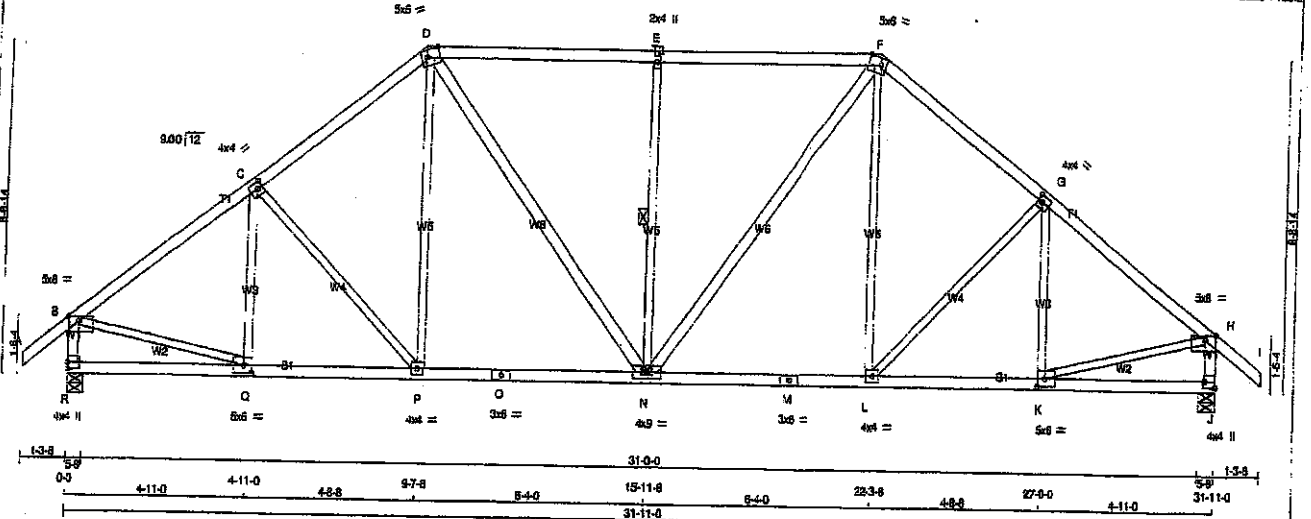
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (K) (INPUT = 0.90)
JSI METAL= 0.85 (O) (INPUT = 1.00)

Structural component only
DWG# T-1911486

JOB NAME 403045	TRUSS NAME T5	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Farnack Roof Truss, Burlington				TRUSS DESC.	

Version 8.300 S Apr 23 2019 Mitek Industries, Inc. Tue May 14 10:41:24 2019 Page 1
 ID: D7uPnW97Dz9Kx1HTFaFreyNCCH-pL_IQL?dH744ax4HBCQBj1ZFy/Gpa3LRJ02JzGdDr
 31-11-0 31-11-0 31-11-0
 Scale = 1/32



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - B	2x4	DRY	No.2
R - H	2x4	DRY	No.2
J - 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	TMW-p	MT20	5.0	0.0 1.50 3.50
C	TMW-W-I	MT20	4.0	4.0 2.00 1.50
D	TTW-W-m	MT20	5.0	6.0 Edge 4.25
E	TMW-w	MT20	2.0	4.0
F	TTW-w	MT20	5.0	6.0 Edge 4.25
G	TMW-W-I	MT20	4.0	4.0 2.00 1.50
H	TMW-p	MT20	5.0	6.0 1.50 3.50
J	BMW-p	MT20	4.0	4.0 2.00 Edge
K	BMW-W-I	MT20	5.0	6.0 2.50 2.50
L	BMW-W-I	MT20	4.0	4.0
M	BS-I	MT20	3.0	6.0
N	BMW-W-I	MT20	4.0	9.0
O	BS-I	MT20	3.0	6.0
Q	BMW-W-I	MT20	4.0	4.0
R	BMW-p	MT20	5.0	6.0 2.50 2.50
R	BMW-p	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
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
R	2385	0	2385	0	5-8
J	2385	0	2385	0	5-8

UNFACTORED REACTIONS		1ST CASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL
R	1773	1007/0	335/0 0/0 0/0 431/0 0/0
J	1773	1007/0	335/0 0/0 0/0 431/0 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 = 3.88 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0/42	C-C	-285/38
B-C	-2445/0	D-D	-285/0
C-D	-2286/0	E-E	0/425
D-E	-2193/0	F-F	0/1652
E-F	-2193/0	G-G	-791/0
F-G	-2286/0	H-H	0/1652
G-H	-2445/0	I-I	0/425
H-I	0/42	J-J	-285/0
I-J	-2304/0	K-K	-285/38
J-K	-2304/0	L-L	0/2041
K-L	0/0	M-M	0/2041
L-M	0/0	N-N	0/0
M-N	0/1883	O-O	0/1883
N-O	0/1802	P-P	0/1802
O-P	0/1802	Q-Q	0/1802
P-Q	0/1802	R-R	0/1802
Q-R	0/1802	S-S	0/1802
R-S	0/1802	T-T	0/1802
S-T	0/1802	U-U	0/1802
T-U	0/1802	V-V	0/1802
U-V	0/1802	W-W	0/1802
V-W	0/1802	X-X	0/1802
W-X	0/1802	Y-Y	0/1802
X-Y	0/1802	Z-Z	0/1802

TOTAL WEIGHT = 2 X 154 = 307 lb

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 8.0 PSF
 BOT CH. LL = 10.5 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN.CC

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.60/12

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2010, CBC 2012
 - CSA 088-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
 ALLOWABLE DEFL.(TL) = L/360 (1.06")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.61/1.00 (D-E-1), BC=0.48/1.00 (N-P-2), WB=0.48/1.00 (H-K-1), SS=0.31/1.00 (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

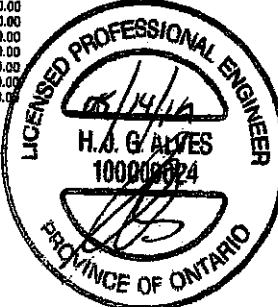
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (FLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

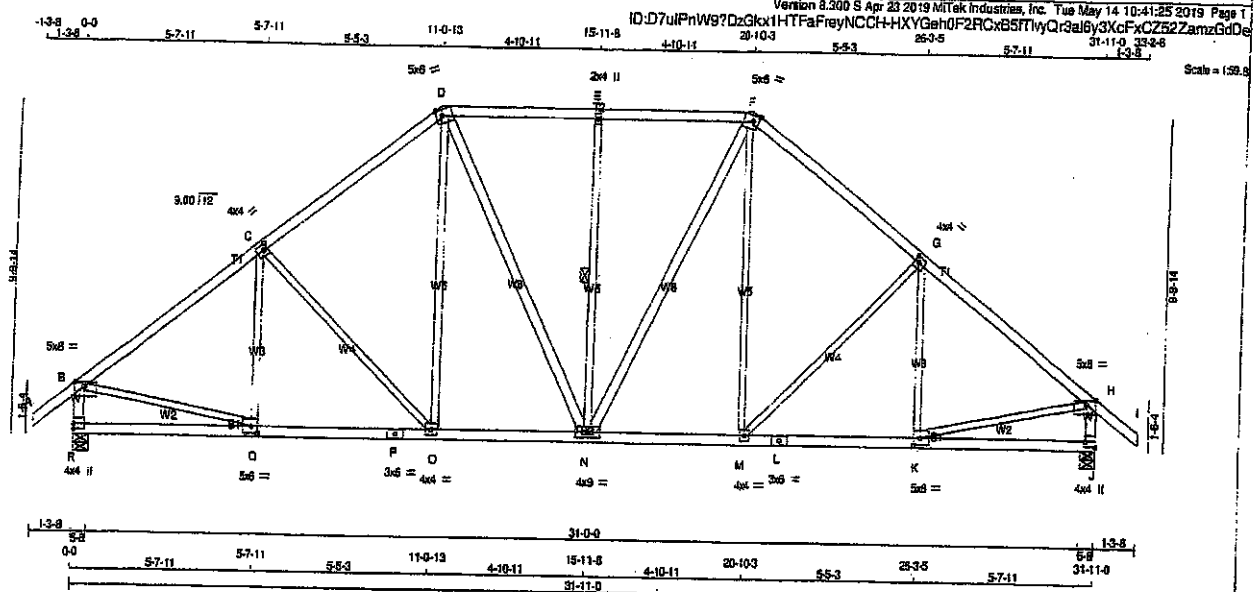
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.86 (C) (INPUT = 0.90)
 JSI METAL = 0.88 (C) (INPUT = 1.00)



Structural component only
 DWG# T-1911487

JOB NAME 403045	TRUSS NAME T6	QUANTITY 6	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER			
N. L. & A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
R - Q	2x4	DRY	No.2
Q - P	2x4	DRY	No.2
P - O	2x4	DRY	No.2
O - N	2x4	DRY	No.2
N - M	2x4	DRY	No.2
M - L	2x4	DRY	No.2
L - K	2x4	DRY	No.2
K - 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	V X
B	TMVW-p	MT20	5.0	8.0	1.50 3.50
C	TMVW-t	MT20	4.0	4.0	2.00 1.50
D	TTVW-m	MT20	5.0	6.0	Edge 2.00
E	TMVW-w	MT20	2.0	4.0	
F	TTVW-m	MT20	5.0	8.0	Edge 2.00
G	TMVW-t	MT20	4.0	4.0	2.00 1.50
H	TMVW-p	MT20	5.0	8.0	1.50 3.50
J	BMVW-p	MT20	4.0	4.0	2.00 Edge
K	BMVW-t	MT20	5.0	8.0	2.50 2.50
L	BS-t	MT20	3.0	6.0	
M	BMVW-t	MT20	4.0	4.0	
N	BMVW-t	MT20	4.0	4.0	
O	BS-t	MT20	4.0	4.0	
P	BS-t	MT20	3.0	6.0	
Q	BMVW-t	MT20	5.0	6.0	2.50 2.50
R	BMVW-p	MT20	4.0	4.0	

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
R	2385	0	2385	0	5-8
J	2385	0	2385	0	5-8

UNFACTORED REACTIONS		1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
R	1773	1007/0	335/0
J	1773	1007/0	335/0

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

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

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

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

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

LOADING		CHORDS		WEBS	
TOTAL LOAD CASES: (4)		MAX. FACTORED	FACTORED	MAX. FACTORED	FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0/42	-102.1	-102.1 0.14 (1)	Q-C	-185/119
B-C	-2474/0	-102.1	-102.1 0.54 (1)	O-D	-422/0
C-D	-2181/0	-102.1	-102.1 0.49 (1)	D-E	0/498
D-E	-1916/0	-102.1	-102.1 0.36 (1)	E-F	0/440
E-F	-1916/0	-102.1	-102.1 0.35 (1)	F-G	-603/0
F-G	-2181/0	-102.1	-102.1 0.49 (1)	G-H	0/440
G-H	-2474/0	-102.1	-102.1 0.54 (1)	H-I	0/498
H-I	0/42	-102.1	-102.1 0.14 (1)	I-J	-422/0
R-S	-2286/0	0.0	0.0 0.24 (1)	K-G	-185/119
J-H	-2286/0	0.0	0.0 0.24 (1)	S-O	0/2055
R-Q	0/0	-38.5	-38.5 0.22 (3)	K-H	0/2055
Q-P	0/2011	-38.5	-38.5 0.48 (2)		
P-O	0/2011	-38.5	-38.5 0.48 (2)		
O-N	0/1715	-38.5	-38.5 0.38 (1)		
N-M	0/1715	-38.5	-38.5 0.38 (1)		
M-L	0/2011	-38.5	-38.5 0.48 (2)		
L-K	0/2011	-38.5	-38.5 0.48 (2)		
K-J	0/0	-38.5	-38.5 0.22 (3)		

TOTAL WEIGHT = 6 X 161 = 966 LB

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN.C.C.

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

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

THIS DESIGN COMPLIES WITH:
-PART 9 OF NBCC 2010, NBC 2012
-CSA 086-09, CSA 086-14
-TPIC 2011, TPIC 2014

(85% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.06")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/990 (1.06")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSH: TC=0.54/1.00 (B-C:1), SC=0.48/1.00 (C-Q:2), WB=0.52/1.00 (C-O:1), SB=0.24/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 785 1957 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

GRIP=0.85 (B) (INPUT = 0.90)
METAL=0.80 (P) (INPUT = 1.00)



Structural component only
DWG# T-1911488

Tamarack Roof Truss, Burlington



Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF SLIDE

Structural component only
DWG# T-1911489

JOB NAME 403045	TRUSS NAME T10	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

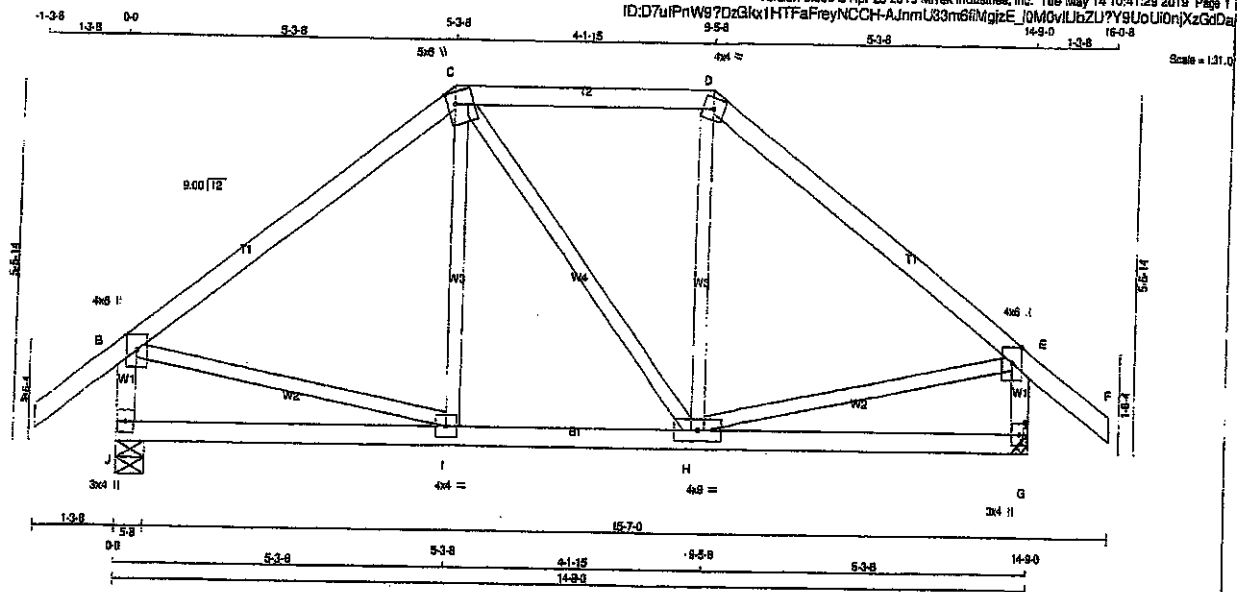
Version 8.300 S Apr 28 2019 MTEK Industries, Inc. Tue May 14 10:41:28 2019 Page 2
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FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
T	11-0-12	-55	-70	--	FRONT	VERT	TOTAL	--	--
U	13-0-12	-55	-70	--	FRONT	VERT	TOTAL	--	--



Structural component only
DWG# T-1911492

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
403045	T11	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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
EXCEPT

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	TTWW+m	MT20	5.0	6.0	2.25	1.50	
D	TTW-m	MT20	4.0	4.0			
E	TMVW+p	MT20	4.0	6.0	Edge		
G	BMV1+p	MT20	3.0	4.0			
H	BMVWW-t	MT20	4.0	9.0			
I	BMVWW-t	MT20	4.0	4.0			
J	BMV1+p	MT20	3.0	4.0			

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	GRG	BRG
JT	VERT	HORIZ	DOWN	HORIZ
J	1178	0	1178	0
G	1178	0	1178	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	872	508 / 0	159 / 0	0 / 0	0 / 0	208 / 0	0 / 0
G	872	508 / 0	159 / 0	0 / 0	0 / 0	208 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.05 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 / 42	-102.1 -102.1 0.14 (1)	10.00	
B-C	-872 / 0	-102.1 -102.1 0.38 (1)	8.05	0 / 174
C-D	-899 / 0	-102.1 -102.1 0.23 (1)	6.25	0 / 4
D-E	-873 / 0	-102.1 -102.1 0.38 (1)	8.05	0 / 177
E-F	0 / 42	-102.1 -102.1 0.14 (1)	10.00	0 / 713
J-B	-1089 / 0	0.0 0.0 0.11 (1)	7.57	0 / 714
G-E	-1089 / 0	0.0 0.0 0.11 (1)	7.57	
J-I	0 / 0	-38.5 -38.5 0.19 (3)	10.00	
I-H	0 / 897	-38.5 -38.5 0.28 (2)	10.00	
H-G	0 / 0	-38.5 -38.5 0.19 (3)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 29.0	PSF
BOY CH.	LL	= 10.5	PSF
	DL	= 7.0	PSF
TOTAL LOAD		= 52.5	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 BCBC 2018, CBC 2012
- CSA 088-09, CSA 088-14
- TPG 2011, TPG 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.49")
CALCULATED VERT. DEFL.(LL) = L/989 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.49")
CALCULATED VERT. DEFL.(TL) = L/989 (0.07")

CSI: TO=0.38/1.00 (D-E-I), BC=0.28/1.00 (H-I-2), WB=0.18/1.00 (E-H-I), SS=0.17/1.00 (D-E-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

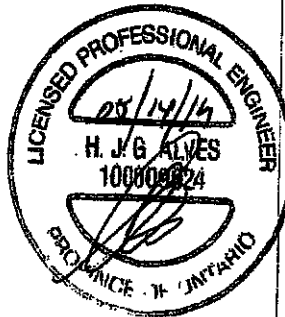
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

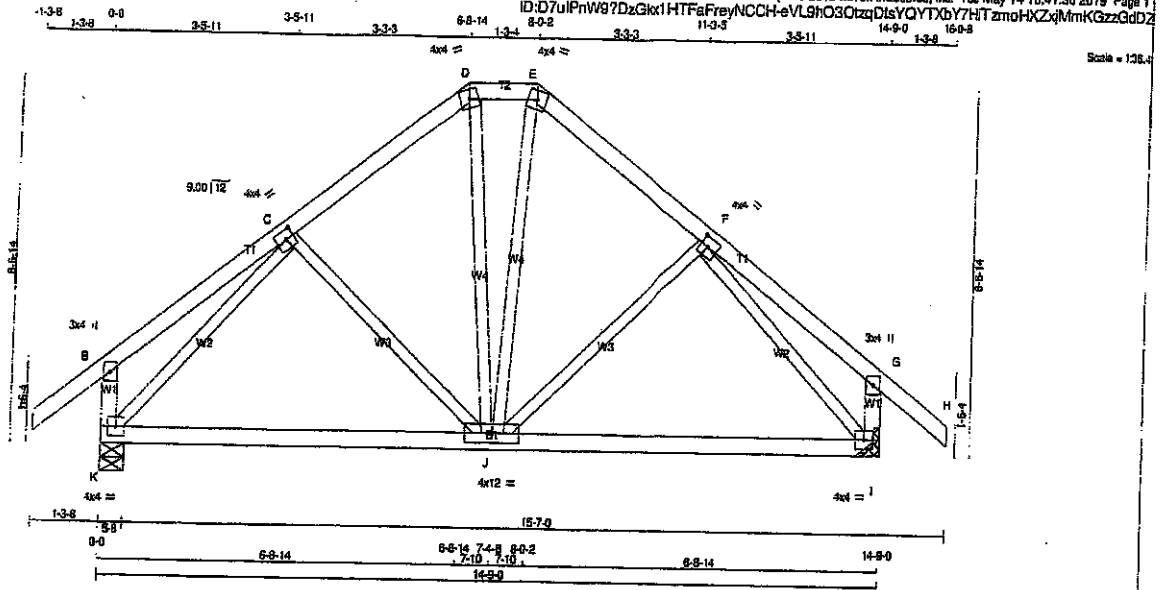
SI GRIP= 0.82 (I) (INPUT = 0.80)
SI METAL= 0.49 (E) (INPUT = 1.00)



Structural component only
DWG# T-1911493

JOB NAME 403045	TRUSS NAME T12	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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CHORDS	SIZE	LUMBER
A - D	2x4	DRY No.2
D - E	2x4	DRY No.2
E - H	2x4	DRY No.2
K - B	2x4	DRY No.2
I - G	2x4	DRY No.2
K - I	2x4	DRY No.2

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0		
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW-t	MT20	4.0	4.0	2.00	1.75
G	TMV-p	MT20	3.0	4.0		
I	BMVW1-t	MT20	4.0	4.0		
J	BMVW1-t	MT20	4.0	12.0		
K	BMVW1-t	MT20	4.0	4.0		

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	872	508 / 0	155 / 0	0 / 0	0 / 0	208 / 0	0 / 0
I	872	508 / 0	155 / 0	0 / 0	0 / 0	208 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBB				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORZ. LOAD (CS)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORZ. LOAD (CS)	
FR-TO		FROM TO			FR-TO				
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	C-J	-137 / 33	0.07 (1)	
B-C	0 / 23	-102.1	-102.1	0.18 (1)	10.00	J-F	-137 / 33	0.07 (1)	
C-D	-800 / 0	-102.1	-102.1	0.14 (1)	6.25	K-C	-1074 / 0	0.43 (1)	
D-E	-847 / 0	-102.1	-102.1	0.03 (1)	6.25	F-I	-1074 / 0	0.43 (1)	
E-F	-800 / 0	-102.1	-102.1	0.14 (1)	6.25	D-J	0 / 275	0.06 (2)	
F-G	0 / 23	-102.1	-102.1	0.18 (1)	10.00	J-E	0 / 275	0.06 (2)	
G-H	0 / 42	-102.1	-102.1	0.14 (1)	10.00				
K-B	-273 / 0	0.0	0.0	0.03 (1)	7.81				
I-G	-273 / 0	0.0	0.0	0.03 (1)	7.81				
K-J	0 / 721	-38.5	-38.5	0.54 (2)	10.00				
J-I	0 / 721	-38.5	-38.5	0.54 (2)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. OC

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

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

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

(56% OF 37.8 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.49")
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (0.49")
CALCULATED VERT. DEFL. (TL) = L/999 (0.14")

CSL: TC=0.18/1.00 (B-C:1), BC=0.54/1.00 (J-K:2), WB=0.43/1.00 (K-K:1), SB=0.19/1.00 (J-K:3)

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

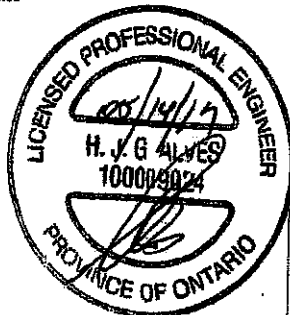
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 515 354 1887 788 1987 1858

PLATE PLACEMENT TOL = 0.250 inches

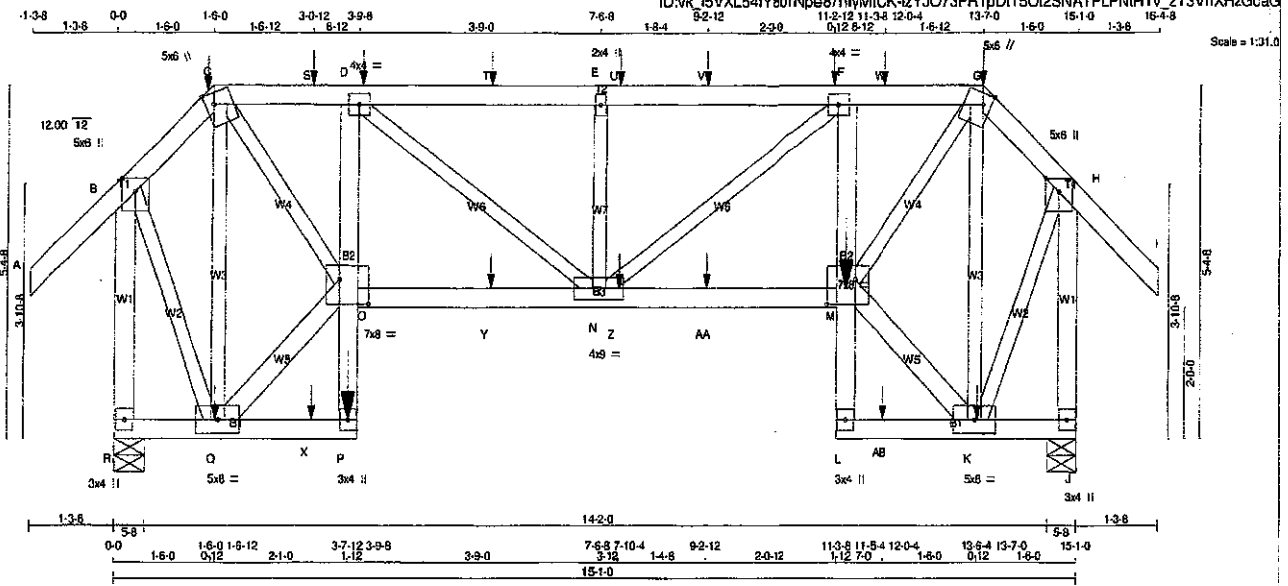
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.87 (K) (INPUT = 0.90)
JSI METAL = 0.39 (F) (INPUT = 1.00)



Structural component only
DWG# T-1911494

JOB NAME 403060	TRUSS NAME T18	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



TOTAL WEIGHT = 95 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+P	MT20	5.0	6.0	Edge	
C	TTWW+M	MT20	5.0	6.0	2.00	1.50
D	TMVW-I	MT20	4.0	4.0		
E	TMVW+W	MT20	2.0	4.0		
F	TMVW-I	MT20	4.0	4.0		
G	TTWW+M	MT20	5.0	6.0	2.00	1.50
H	TMVW+P	MT20	5.0	6.0	Edge	
J	BMV1+P	MT20	3.0	4.0		
K	BMVW+M	MT20	5.0	8.0		
L	BMV+P	MT20	3.0	4.0		
M	BMVW+M	MT20	7.0	8.0	4.50	5.50
N	BMVW+M	MT20	4.0	9.0		
O	BMVW+M	MT20	7.0	8.0	4.50	5.50
P	BMV+P	MT20	3.0	4.0		
Q	BMVW+M	MT20	5.0	8.0		
R	BMV1+P	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORIZ	DOWN	HORIZ
R	1208	0	1208	0
J	1208	0	1208	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX	MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE	PERM. LIVE
R	895	519/0	161/0	0/0
J	895	519/0	161/0	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 = 5.32 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.

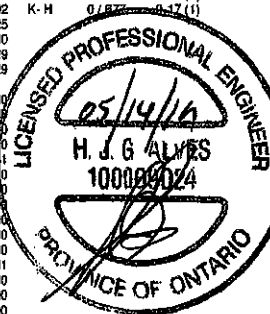
LOADING

TOTAL LOAD CASES: (7)

CHORDS	MEMB.	MAX. FACTORED	FORCE	VERT. LOAD	FACTORED	MAX. FACTORED	WEBS	MEMB.	MAX. FACTORED	FORCE	MAX. FACTORED
			(LBS)	(PLF)	LC1	MAX				(LBS)	MAX
					CS1 (LC)	UNBRAC					CS1 (LC)
FR-TO							FR-TO				
A-B	0/50	-102.1	-102.1	0.16 (1)	10.00		Q-C	-800/0	0.38 (1)		
B-C	-448/0	-102.1	-102.1	0.15 (1)	6.25		Q-D	0/369	0.07 (1)		
C-S	-1016/0	-102.1	-102.1	0.14 (1)	6.02		C-O	0/1245	0.31 (1)		
S-D	-1016/0	-102.1	-102.1	0.14 (1)	6.02		D-N	0/388	0.10 (1)		
D-T	-1332/0	-102.1	-102.1	0.23 (1)	5.32		N-F	-422/0	0.09 (1)		
T-E	-1332/0	-102.1	-102.1	0.23 (1)	5.32		N-F	0/388	0.10 (1)		
E-U	-1332/0	-102.1	-102.1	0.23 (1)	5.32		M-K	0/369	0.07 (1)		
U-V	-1332/0	-102.1	-102.1	0.23 (1)	5.32		M-G	0/1245	0.31 (1)		
V-F	-1332/0	-102.1	-102.1	0.14 (1)	6.02		K-G	-800/0	0.38 (1)		
F-W	-1016/0	-102.1	-102.1	0.14 (1)	6.02		Q-O	0/677	0.17 (1)		
W-G	-1016/0	-102.1	-102.1	0.14 (1)	6.02		K-H	0/677	0.17 (1)		
G-H	-448/0	-102.1	-102.1	0.15 (1)	6.25						
H-I	0/50	-102.1	-102.1	0.16 (1)	10.00						
R-B	-1187/0	0.0	0.0	0.31 (1)	7.29						
J-H	-1187/0	0.0	0.0	0.31 (1)	7.29						
R-Q	0/0	-38.5	-38.5	0.03 (3)	10.00						
Q-X	0/15	-38.5	-38.5	0.03 (2)	10.00						
X-P	0/15	-38.5	-38.5	0.03 (2)	10.00						
P-O	0/47	0.0	0.0	0.06 (1)	10.00						
O-Y	-563/0	0.0	0.0	0.06 (1)	7.81						
Q-Y	0/1029	-38.5	-38.5	0.28 (2)	10.00						
Y-N	0/1029	-38.5	-38.5	0.28 (2)	10.00						
N-Z	0/1029	-38.5	-38.5	0.28 (2)	10.00						
Z-AA	0/1029	-38.5	-38.5	0.28 (2)	10.00						
AA-M	0/1029	-38.5	-38.5	0.28 (2)	10.00						
L-M	0/41	0.0	0.0	0.06 (1)	10.00						
M-F	-563/0	0.0	0.0	0.06 (1)	7.81						
L-AB	0/15	-38.5	-38.5	0.03 (2)	10.00						
AB-K	0/15	-38.5	-38.5	0.03 (2)	10.00						
K-J	0/0	-38.5	-38.5	0.03 (3)	10.00						

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	1-8-0	1	1	144	BACK	VERT	TOTAL	--
D	3-10-4	1	1	144	BACK	VERT	TOTAL	--
F	11-2-12	1	1	144	BACK	VERT	TOTAL	--
G	13-7-0	1	1	144	BACK	VERT	TOTAL	--
K	13-8-4	1	1	--	BACK	VERT	TOTAL	--
M	11-5-4	-6	-7	--	BACK	VERT	TOTAL	--
P	3-7-12	-6	-7	--	BACK	VERT	TOTAL	--
Q	1-6-12	1	1	--	BACK	VERT	TOTAL	--



DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 NBC 2010, NBC 2015
- CSA 086-03, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.50")
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.50")
CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CS1: TC=0.31/1.00 (B-R:1), BC=0.28/1.00 (N-O:2),
WB=0.38/1.00 (G-K:1), SS=0.16/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(F51) (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.

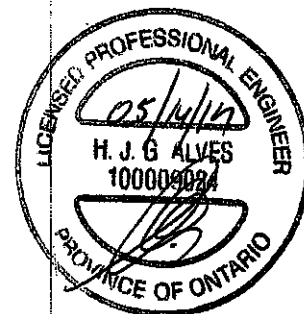
JSI GRIP= 0.83 (G) (INPUT = 0.90)
JSI METAL= 0.32 (C) (INPUT = 1.00)

Structural component only
DWG# T-1911509 CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
403060	T18	1	1	TRUSS DESC.		
Tamarack Roof Truss, Burlington						

Version 8.300 S Apr 23 2019 Mitak Industries, Inc. Tue May 14 11:25:33 2019 Page 2
ID:vk f5VXL54FY80rNpe87hlyMICK-lzYJO73FR1pDt15O12SNATFLPNH11v_zT3VhXHzGcaG

FACTORED CONCENTRATED LOADS (LBS)									
LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.	
3-0-12	1	1	144	BACK	VERT	TOTAL	---	---	
5-10-4	1	1	144	BACK	VERT	TOTAL	---	---	
7-10-4	1	1	144	BACK	VERT	TOTAL	---	---	
9-2-12	1	1	144	BACK	VERT	TOTAL	---	---	
12-0-4	1	1	144	BACK	VERT	TOTAL	---	---	
3-0-12	1	1	---	BACK	VERT	TOTAL	---	---	
5-10-4	1	1	---	BACK	VERT	TOTAL	---	---	
7-10-4	1	1	---	BACK	VERT	TOTAL	---	---	
9-2-12	1	1	---	BACK	VERT	TOTAL	---	---	
12-0-4	1	1	---	BACK	VERT	TOTAL	---	---	

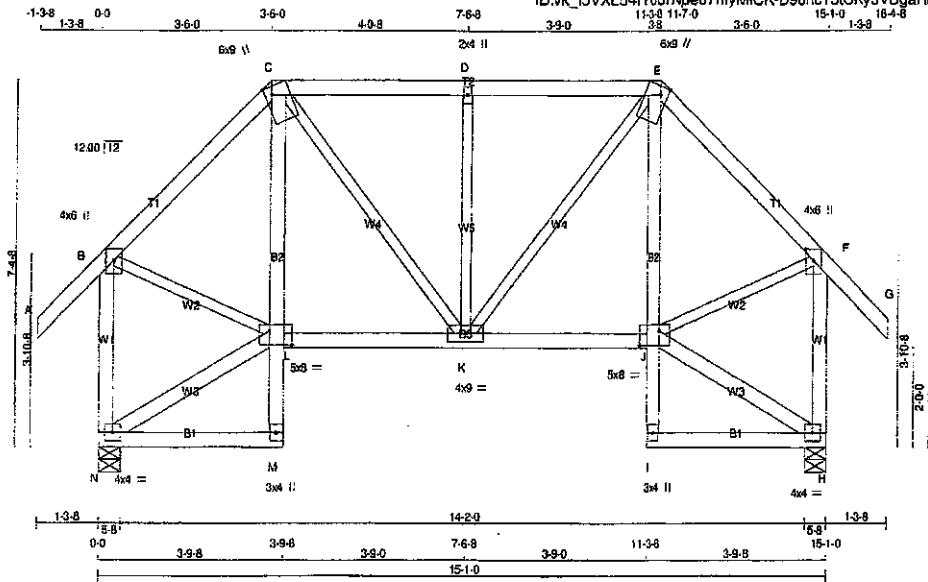


Structural component only
DWG# T-1911509-2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
403060	T19	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.300 S Apr 23 2019 MTEK Industries, Inc. Tue May 14 11:25:34 2019 Page 1
ID:vk_15VXL54N8brNpe87hlyMICK-D96hcT3tCky3VBgaRlzcjhoWZnEmmOS7iEF3zGcaF



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

TOTAL WEIGHT = 94 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

C - E 2x4 DRY No.2

E - G 2x4 DRY No.2

N - B 2x4 DRY No.2

H - F 2x4 DRY No.2

N - M 2x4 DRY No.2

M - C 2x4 DRY No.2

L - J 2x4 DRY No.2

I - E 2x4 DRY No.2

I - H 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

N - L 2x4 DRY No.2

J - H 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES

B TMVW+p MT20 4.0 6.0 2.75 2.00

C TTVW+m MT20 6.0 9.0 Edge 1.75

D TMVW+w MT20 2.0 4.0

E TTVW+m MT20 6.0 9.0 Edge 1.75

F TMVW+p MT20 4.0 6.0 2.75 2.00

H BMVW1-t MT20 4.0 4.0

I BMV+p MT20 3.0 4.0

J BMVWV-I MT20 5.0 8.0 3.50 5.50

K BMVWV-I MT20 4.0 9.0

L BMVWV-I MT20 5.0 9.0 3.50 5.50

M BMV+p MT20 3.0 4.0

N BMVW1-t MT20 4.0 4.0

Edge - INDICATES REFERENCE CORNER OF PLATE

TOUCHES EDGE OF CHORD.

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

BUILDING DESIGNER

BEARINGS

FACTORED

GROSS REACTION

VERT HORZ

DOWN HORZ UPLIFT

IN-SX IN-SX

SPF N 1203 0 1203 0 0 5-8 5-8

SPF H 1203 0 1203 0 0 5-8 5-8

UNFACTORED REACTIONS

1ST LCASE

MAX/MIN. COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERMLIVE WIND DEAD SOIL

N 890 519 / 0 158 / 0 0 / 0 0 / 0 213 / 0 0 / 0

H 890 519 / 0 158 / 0 0 / 0 0 / 0 213 / 0 0 / 0

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

BRACING

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

MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED

MEMB. FORCE

(LBS)

FR-TO

A-B 0 / 50

B-C -823 / 0

C-D -837 / 0

D-E -837 / 0

E-F -823 / 0

F-G 0 / 50

N-B -1130 / 0

H-F -1130 / 0

N-M 0 / 4

M-L 0 / 89

L-C -82 / 67

L-K 0 / 578

K-J 0 / 578

I-J 0 / 88

J-E -82 / 67

I-H 0 / 4

FACTORED

VERT. LOAD

LC1 MAX

CSI (LC)

UNBRAC

LENGTH

FR-TO

A-B 10.00

B-C 6.25

C-D 6.25

D-E 6.25

E-F 10.00

F-G 7.46

N-B 10.00

H-F 7.46

N-M 10.00

M-L 7.81

L-C 10.00

L-K 10.00

K-J 10.00

I-J 7.81

J-E 10.00

WEBS

MAX. FACTORED

MEMB. FORCE

(LBS)

CSI (LC)

FR-TO

A-B -5 / 0

B-C 0 / 621

C-D -5 / 0

D-E 0 / 621

E-F -498 / 0

F-G 0 / 414

N-B 0 / 414

H-F 0 / 414

N-M 10.00

M-L 10.00

L-C 7.81

L-K 10.00

K-J 10.00

I-J 10.00

J-E 7.81

I-H 10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 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 BCBC 2018, OBC 2012

- CSA 088-09, CSA 088-14

- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN

LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF

LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.50")

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

ALLOWABLE DEFL.(TL) = L/360 (0.50")

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

CSI: TC=0.29/1.00 (B-N:1), BC=0.20/1.00 (J-K:2),

WB=0.21/1.00 (D-K:1), SS=0.20/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT

RESPONSIBLE FOR QUALITY CONTROL IN THE

TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

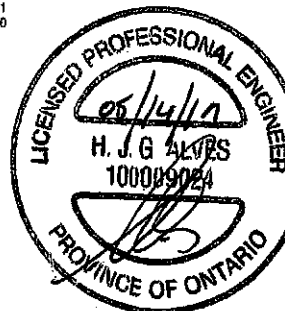
MT20 618 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP = 0.79 (F) (INPUT = 0.90)

SI METAL = 0.39 (F) (INPUT = 1.00)



Structural component only

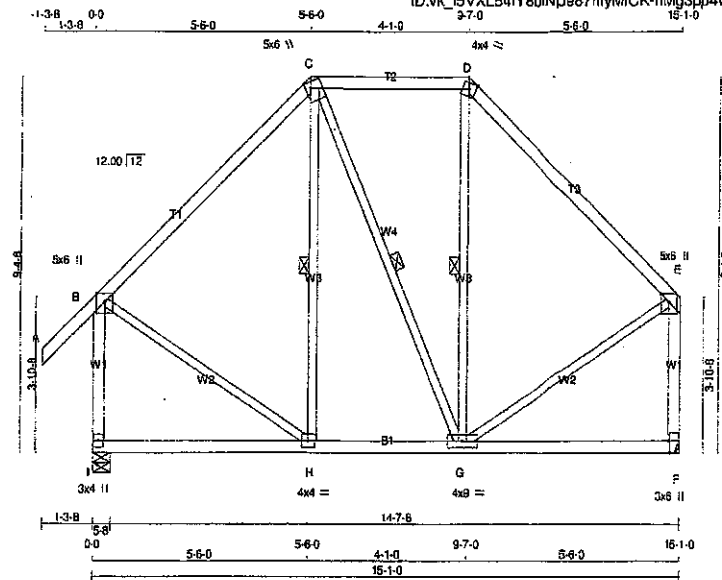
DWG# T-1911510

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
403060	T20	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:vk_15VXL54FY8bNpe87hlyMICK-hMg3pp4Wze4w6LFn_SuFuKITBaWVtHGxN_ob9zGcae



Scale = 1/8" = 1'-0"

TOTAL WEIGHT = 3 X 83 = 248 lb

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

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	Edge	
C	TTWW+m	MT20	5.0	6.0	2.00	1.50
D	TTW+m	MT20	4.0	4.0	Edge	
E	TMVW+p	MT20	5.0	6.0	Edge	
F	BMV1+i	MT20	3.0	3.0	Edge	0.50
G	BMWW+i	MT20	4.0	9.0	Edge	
H	BMWW+i	MT20	4.0	4.0		
I	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS					
FACTORED	MAXIMUM FACTORED	INPUT	REQD		
GROSS REACTION	GROSS REACTION	BRG	BRG		
JT VERT	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I 1203	0	1203	0	5-8	5-8
F 1060	0	1060	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX	MIN	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
I	890	519 / 0	158 / 0	0 / 0	0 / 0	0 / 0	213 / 0	0 / 0
F	792	438 / 0	158 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0

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

BRACING

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

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

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

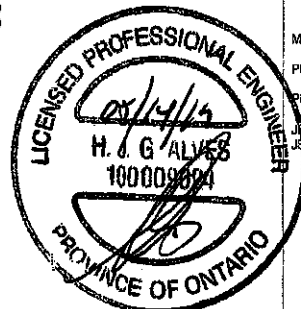
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-H, C-G, D-G.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 50	-102.1	-102.1 0.14 (1)	10.00	H-C	-65 / 128	0.04 (1)
B-C	-598 / 0	-102.1	-102.1 0.40 (1)	6.25	C-G	0 / 0	0.00 (1)
C-D	-421 / 0	-102.1	-102.1 0.22 (1)	6.25	G-D	-66 / 129	0.04 (1)
D-E	-598 / 0	-102.1	-102.1 0.40 (1)	6.25	B-H	0 / 498	0.11 (1)
E-F	-1112 / 0	0.0	0.0 0.28 (1)	7.51	G-E	0 / 498	0.11 (1)
F-E	-969 / 0	0.0	0.0 0.25 (1)	7.81			
I-H	0 / 0	-38.5	-38.5 0.20 (3)	10.00			
H-G	0 / 421	-38.5	-38.5 0.23 (2)	10.00			
G-F	0 / 0	-38.5	-38.5 0.20 (3)	10.00			



DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0	PSF
	DL	=	5.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.50")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.50")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.40/1.00 (B-C:1), BC=0.23/1.00 (G-H:2), WB=0.11/1.00 (B-H:1), SS=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

GRIP=0.57 (B) (INPUT = 0.90)
METAL=0.27 (B) (INPUT = 1.00)

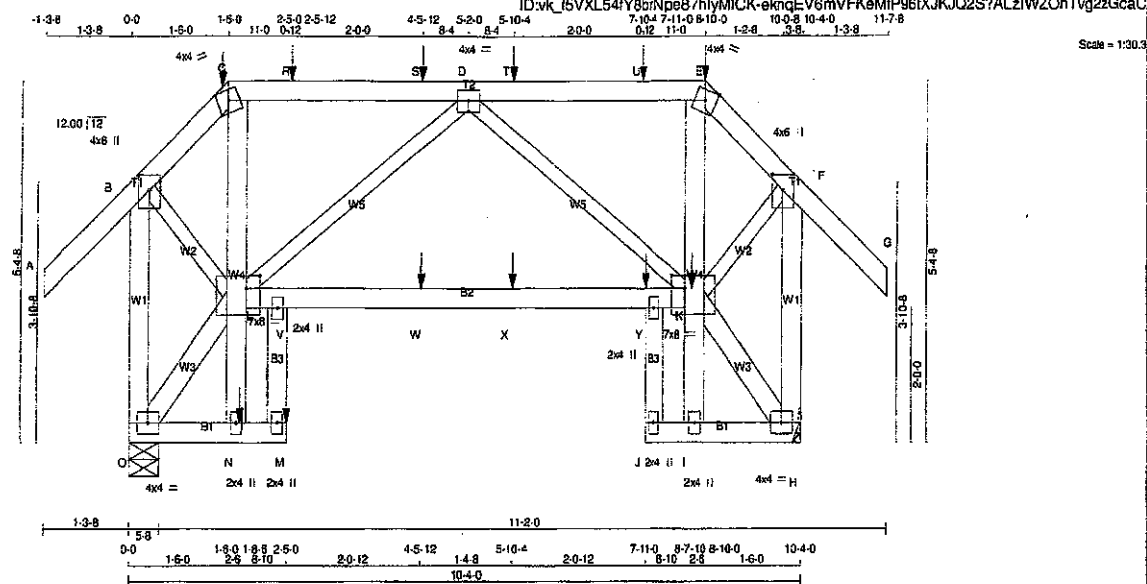
Structural component only
DWG# T-1911511

ID:vk_15VXL54f3abrNpe87hlvMlCK-AYES1958kvCnkVozYA?4061s_bwqEDiP91IM8czGcad



Structural component only
DWG# T-1911512

Tamarack Roof Truss, Burlington



TOTAL WEIGHT = 70 lb.

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
R	TYPE	INCHES	W	LEN	Y	X
B	TMWV-wp	MT20	4.0	6.0	2.75	2.00
C	TTW-w	MT20	4.0	4.0	Edge	
D	TMWV-1	MT20	4.0	4.0		
E	TTW-w	MT20	4.0	4.0	Edge	
F	TMWV-wp	MT20	4.0	6.0	2.75	2.00
H	BMWV1-1	MT20	4.0	4.0		
I	BMWV-1	MT20	2.0	4.0		
J, M, P, Q						
K	WV-w	MT20	2.0	4.0		
L	BMWVWWVW-1	MT20	7.0	8.0	2.25	2.50
N	BMWVWWVW-1	MT20	7.0	8.0	2.25	2.50
O	BNW-w	MT20	2.0	4.0		
Q	BMWV1-1	MT20	4.0	4.0		

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



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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
O	897	0	897	0	0	5-8	5-8
H	897	0	897	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	566	381 / 0	124 / 0	0 / 0	0 / 0	161 / 0	0 / 0
H	566	381 / 0	124 / 0	0 / 0	0 / 0	161 / 0	0 / 0

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

BRACING

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 10.00 FT

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

LOADING

TOTAL LOAD CASES: (7)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 / 50	-102.1 -102.1	0.16 (1)	10.00	N-L	0 / 78	0.03 (2)		
B-C	-472 / 0	-102.1 -102.1	0.15 (1)	6.25	L-C	0 / 172	0.04 (2)		
C-R	-311 / 0	-102.1 -102.1	0.25 (1)	6.25	I-K	0 / 78	0.03 (2)		
R-S	-311 / 0	-102.1 -102.1	0.25 (1)	6.25	K-E	0 / 172	0.04 (2)		
S-D	-311 / 0	-102.1 -102.1	0.25 (1)	6.25	O-L	-12 / 0	0.00 (1)		
D-T	-311 / 0	-102.1 -102.1	0.25 (1)	6.25	B-L	0 / 400	0.10 (1)		
T-U	-311 / 0	-102.1 -102.1	0.25 (1)	6.25	B-L	-12 / 0	0.00 (1)		
U-E	-311 / 0	-102.1 -102.1	0.23 (1)	6.25	K-F	0 / 780	0.10 (1)		
E-F	-472 / 0	-102.1 -102.1	0.15 (1)	6.25	L-D	-344 / 0	0.13 (1)		
F-G	0 / 50	-102.1 -102.1	0.16 (1)	10.00	D-K	-344 / 0	0.13 (1)		
G-H	-856 / 0	0.0 0.0	0.23 (1)	7.81					
H-F	-856 / 0	0.0 0.0	0.23 (1)	7.81					

FACTORED CONCENTRATED LOADS (LBS)

FACILITY CONCENTRATION LOADS (kg)				FACE	DIR.	TYPE	HEEL	CONN
JT	LOC.	LOC1	MAX.	MAX2				
E	1-6.0	1	1	144	FRONT	VERT	TOTAL	---
E	8-10.0	1	1	144	FRONT	VERT	TOTAL	---
K	8-7-10	1	1	---	FRONT	VERT	TOTAL	---
M	2-5.0	1	1	---	FRONT	VERT	TOTAL	---
N	1-8.6	1	1	---	FRONT	VERT	TOTAL	---
R	2-5-12	1	1	143	FRONT	VERT	TOTAL	---
S	4-5-12	1	1	144	FRONT	VERT	TOTAL	---
T	5-10-4	1	1	144	FRONT	VERT	TOTAL	---
U	7-10-4	1	1	143	FRONT	VERT	TOTAL	---
X	4-5-12	1	1	---	FRONT	VERT	TOTAL	---
K	5-10-4	1	1	---	FRONT	VERT	TOTAL	---

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	29.0	PSF
	DL =	6.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD =		52.5	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 ECBC 2018 , OBC 2012
- CSA 084-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED RCOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.34")
CALCULATED VERT. DEFL.(LL) = $L/814$ (0.15")
ALLOWABLE DEFL.(TL) = $L/360$ (0.34")
CALCULATED VERT. DEFL.(TL) = $L/488$ (0.25")

CSI: TC=0.25/1.00 (C-D:1), BC=0.52/1.00 (K-L:2),
WB=0.13/1.00 (D-K:1), SSI=0.20/1.00 (C-D:1)

COMPANION LIVE LOAD FACTOR = 1.00

ALTO SOX VE HEELS OFF

AUTOSOLVE HEELS OFF

TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PSI)	(PSI)	(PSI)

	MAX	MIN	MAX	MIN	MAX	MIN
1999	515	254	1057	700	1057	105

PLATE PLACEMENT TOL = 0.250 INCHES

PLATE ROTATION TOL. = 5.0 Deg.

JS1 GRIP = 0.60 (B) (INPUT = 0.90)
JS1 METAL = 0.20 (B) (INPUT = 1.00)

Structural component only

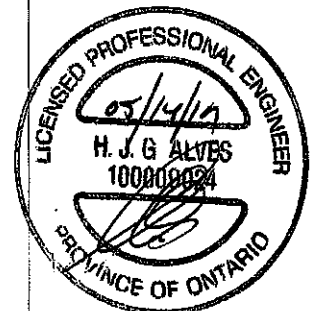
DWG# T-1911513 CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
403060	T22	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

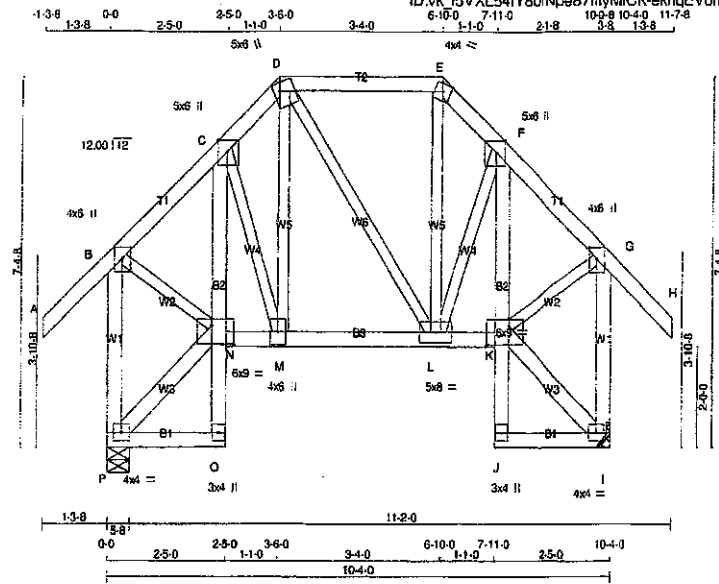
Version 8.300 S Apr 23 2019 Mitek Industries, Inc. Tue May 14 11:25:37 2019 Page 2
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FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Y	7-11-0	1	1	1	FRONT	VERT	TOTAL	---	---



Structural component only
DWG# T-1911513 -2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
403060	T23	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



Scale = 1:40.5

TOTAL WEIGHT = 81 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	4.0	6.0	2.75 2.00
C	TMVW-p	MT20	5.0	6.0	Edge 2.25
D	TTWV-m	MT20	5.0	6.0	2.00 1.50
E	TTW-m	MT20	4.0	4.0	Edge
F	TMVW-p	MT20	5.0	6.0	Edge 2.25
G	TMVW-p	MT20	4.0	6.0	2.75 2.00
I	BMVW-1	MT20	4.0	4.0	
J	BMV-p	MT20	3.0	4.0	
K	BMVWV-1	MT20	6.0	9.0	4.50 5.50
L	BMVWV-1	MT20	5.0	8.0	
M	BMVWV-1	MT20	4.0	6.0	
N	BMVWV-1	MT20	6.0	9.0	4.50 5.50
O	BMV-p	MT20	3.0	4.0	
P	BMVWV-1	MT20	4.0	4.0	

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

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

BEARINGS								
FACTORED			MAXIMUM FACTORED			INPUT	REQ'D	
GROSS REACTION			GROSS REACTION			BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
P	869	0	869	0	0	5-8	5-8	
I	869	0	869	0	0	MECHANICAL		

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

UNFACTORED REACTIONS							
1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	841	381/0	109/0	0/0	0/0	151/0	0/0
I	841	381/0	109/0	0/0	0/0	151/0	0/0

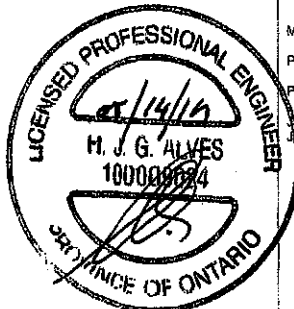
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P

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

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

LOADING
TOTAL LOAD CASES: (4)

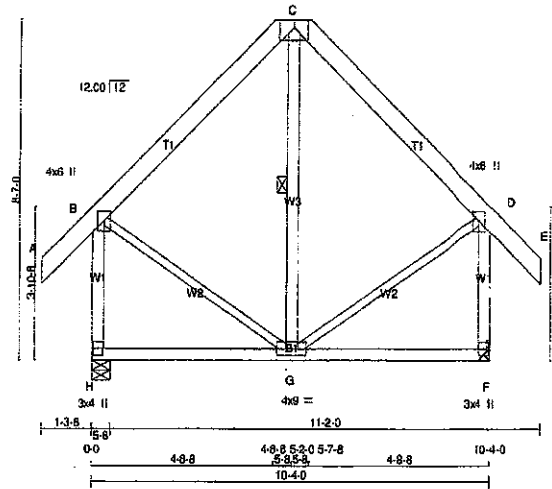
CHORDS					WEBS				
MAX. FACTORED		FACTORED		MAX. UNBRAC	MAX. FACTORED		MAX. CSI (C)		
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 (PLF)		MEMB.	FORCE (LBS)			
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0/50	-102.1	-102.1	0.14 (1)	10.00	C-M	-106/0 0.03 (1)		
B-C	-509/0	-102.1	-102.1	0.06 (1)	8.25	M-D	0/153 0.03 (2)		
C-D	-502/0	-102.1	-102.1	0.04 (1)	8.25	D-L	0/2 0.00 (2)		
D-E	-339/0	-102.1	-102.1	0.15 (1)	8.25	L-E	0/153 0.03 (2)		
E-F	-504/0	-102.1	-102.1	0.04 (1)	8.25	L-F	-103/0 0.03 (1)		
F-G	-509/0	-102.1	-102.1	0.06 (1)	8.25	P-N	-5/0 0.00 (1)		
G-H	0/50	-102.1	-102.1	0.14 (1)	10.00	B-N	0/425 0.10 (1)		
P-B	-821/0	0.0	0.0	0.21 (1)	7.81	K-I	-5/0 0.00 (1)		
I-G	-821/0	0.0	0.0	0.21 (1)	7.81	K-G	0/425 0.10 (1)		
P-O	0/4	-38.5	-38.5	0.05 (3)	10.00				
O-N	0/56	0.0	0.0	0.02 (2)	10.00				
N-C	-102/0	0.0	0.0	0.01 (1)	7.81				
N-M	0/373	-38.5	-38.5	0.09 (2)	10.00				
M-L	0/338	-38.5	-38.5	0.09 (2)	10.00				
L-K	0/372	-38.5	-38.5	0.10 (2)	10.00				
J-K	0/56	0.0	0.0	0.02 (2)	10.00				
K-F	-105/0	0.0	0.0	0.01 (1)	7.81				
J-I	0/4	-38.5	-38.5	0.05 (3)	10.00				



Structural component only
DWG# T-1911514

ID:vk_15VXL54FY8brNpe87hlyMICK-6xLCRr6OGZSV_pzMgb2YXyDDOb4iEpidLCSCUzGcaB
 -1-3-8 0-0 4-8-8 4-8-8 5-2-0 5-7-8 4-8-8 10-4-0 11-7-8
 1-3-8 5-8-5 8-8-8 10-4-0 11-7-8
 6-8-8 =

Scale = 1:51.4



TOTAL WEIGHT = 71 lb (M/F)

LUMBER				
N.L. G. A. RULES	SIZE	LUMBER	DESCR.	
CHORDS				
A - C	2x6 DRY	No.2	SPF	
C - E	2x6 DRY	No.2	SPF	
H - B	2x4 DRY	No.2	SPF	
F - D	2x4 DRY	No.2	SPF	
H - F	2x4 DRY	No.2	SPF	
ALL WEBS	2x3 DRY	No.2	SPF	
EXCEPT				
G - C	2x4 DRY	No.2	SPF	
DRY: SEASONED LUMBER.				
PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	6.0 2.75 2.00
C	TMTMWm	MT20	6.0	9.0 2.25 4.50
D	TMVW+p	MT20	4.0	8.0 2.75 2.00
F	BMV1+p	MT20	3.0	4.0
G	BMVWW-i	MT20	4.0	9.0
H	BMV1+p	MT20	3.0	4.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED	GROSS REACTION		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	DOWN	HORZ	DOWN	HORZ	UPLIFT	BRG	BRG	IN-SX
H	875	0	875	0	0	5-8	5-8		
F	875	0	875	0	0	MECHANICAL			
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 3-8.									

UNFACTORED REACTIONS							
1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
JT	COMBINED						
H	845	384 / 0	109 / 0	0 / 0	0 / 0	152 / 0	0 / 0
F	845	384 / 0	109 / 0	0 / 0	0 / 0	152 / 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.

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MAX. FACTORED UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	MAX. FACTORED UNBRACED LENGTH	
FR-TO		FROM	TO		FR-TO				
A-B	0 / 52	-102.1	-102.1	0.08 (1)	10.00	B-G	0 / 280	0.08 (1)	
B-C	-330 / 0	-102.1	-102.1	0.17 (1)	6.25	G-D	0 / 280	0.08 (1)	
C-D	-330 / 0	-102.1	-102.1	0.17 (1)	6.25	G-C	-61 / 159	0.03 (3)	
D-E	0 / 52	-102.1	-102.1	0.08 (1)	10.00				
H-B	-799 / 0	0.0	0.0	0.18 (1)	7.81				
F-D	-799 / 0	0.0	0.0	0.18 (1)	7.81				
H-G	0 / 0	-38.5	-38.5	0.24 (3)	10.00				
G-F	0 / 0	-38.5	-38.5	0.24 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 29.0 PSF
 DL = 6.0 PSF
 BOT CH. LL = 10.5 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 52.5 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
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(65 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.34")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
 ALLOWABLE DEFL.(TL) = L/500 (0.34")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.18/1.00 (B-H:1), BC=0.24/1.00 (G-H:3), WB=0.06/1.00 (B-G:1), SS=0.13/1.00 (F-G:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

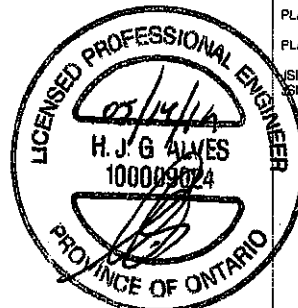
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

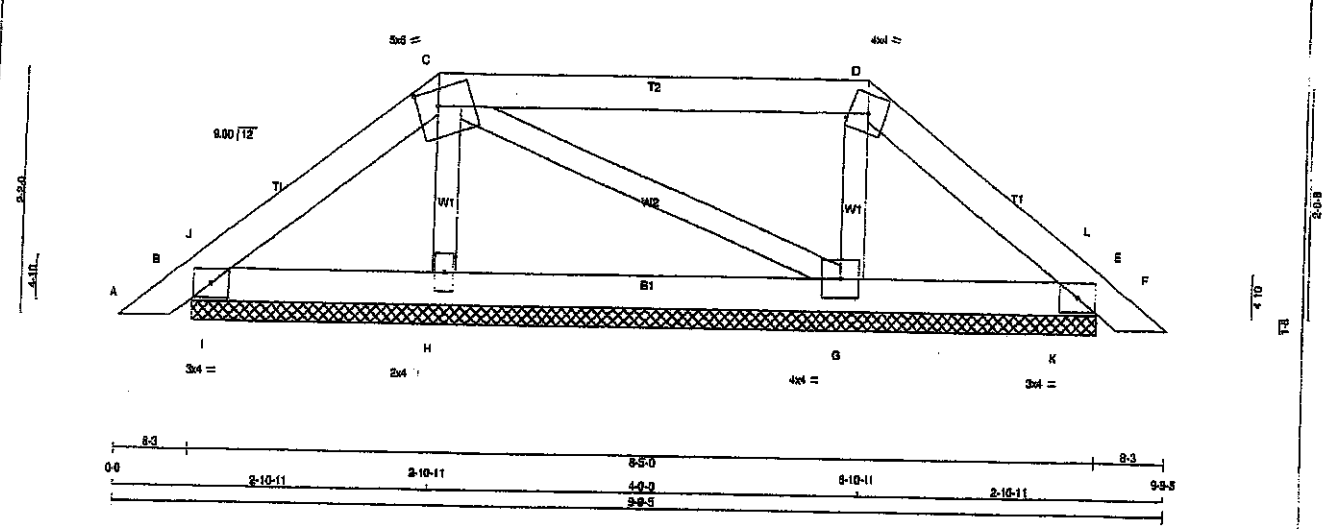
SSI GRIP= 0.56 (B) (INPUT = 0.90)
 SSI METAL= 0.23 (D) (INPUT = 1.00)



Structural component only
 DWG# T-1911515

JOB NAME 403045	TRUSS NAME P1	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Famrack Roof Truss, Burlington				TRUSS DESC.	

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 ID: D7uIPnW97DzGkx1HTFaFryvNCOH-W73EyyvExcB3E12xHEoYXNFSdKfVwR1kr68IDzGdDm
 6-10-11 9-9-5
 Scale = 1:17.5



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY No.2
C - D	2x4	DRY No.2
D - F	2x4	DRY No.2
B - E	2x4	DRY No.2
ALL WEBS	2x3	DRY No.2
DRY: SEASONED LUMBER.		

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-H	MT20	3.0	4.0	
C	TTW-W-m	MT20	5.0	8.0	1.75 2.25
D	TTW-m	MT20	4.0	4.0	
E	TMB1-H	MT20	3.0	4.0	
G	BMW-W1-H	MT20	4.0	4.0	
H	BMW1-w	MT20	2.0	4.0	

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

BEARINGS

DESCR	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
		VERT	HORZ	DOWN	UP/LIFT
JT	SPF	257	0	257	0
B	SPF	243	0	243	0
E	SPF	388	0	388	0
H	SPF	417	0	417	0

UNFACTORED REACTIONS

1ST CASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM/LIVE WIND DEAD SOIL
B	183 130 / 0 16 / 0 0 / 0 0 / 0 37 / 0 0 / 0
E	173 122 / 0 16 / 0 0 / 0 0 / 0 38 / 0 0 / 0
H	295 144 / 0 73 / 0 0 / 0 0 / 0 76 / 0 0 / 0
G	318 161 / 0 73 / 0 0 / 0 0 / 0 82 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, H, G
BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC)	MEMB.
FR-TO		FROM TO		FR-TO			
A-B	0 / 17	-102.1 -102.1	0.03 (1)	10.00	H-C	-232 / 0	0.03 (1)
B-J	-75 / 0	-102.1 -102.1	0.02 (1)	6.25	C-G	-21 / 0	0.01 (1)
J-C	-98 / 0	-102.1 -102.1	0.08 (1)	6.25	G-D	-255 / 0	0.04 (1)
C-D	-42 / 0	-102.1 -102.1	0.28 (1)	6.25	I-J	-148 / 0	0.00 (1)
D-L	-75 / 0	-102.1 -102.1	0.08 (1)	6.25	K-L	-148 / 0	0.00 (1)
L-E	-51 / 0	-102.1 -102.1	0.02 (1)	6.25			
E-F	0 / 17	-102.1 -102.1	6.03 (1)	10.00			
B-I	0 / 75	-38.5 -38.5	0.07 (1)	10.00			
I-H	0 / 75	-38.5 -38.5	0.08 (2)	10.00			
H-G	0 / 81	-38.5 -38.5	0.08 (2)	10.00			
G-K	0 / 57	-38.5 -38.5	0.08 (2)	10.00			
K-E	0 / 57	-38.5 -38.5	0.08 (1)	10.00			

TOTAL WEIGHT = 2 X 28 = 56 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 29.0 PSF
DL = 6.0 PSF	
BOT CH.	LL = 10.5 PSF
DL = 7.0 PSF	
TOTAL LOAD	= 52.5 PSF

SPACING = 24.0 IN. OC

LOADING IN PLAT SECTION BASED ON A SLOPE OF 6.00/12
 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
 - PART 9 OF BCBC 2018, CBC 2012
 - CSA 086-09, CSA 088-14
 - TPIC 2011, TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.28/1.00 (C-D-H), BC=0.08/1.00 (H-I-2), WB=0.04/1.00 (D-G-I), SS=0.18/1.00 (C-D-I)
 DOL LUMBER-1.00 NAIL-1.00 LS BEND-1.10 COMP-1.10 SHEAR-1.10 TENS-1.10

COMPANION LIVE LOAD FACTOR = 1.80

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

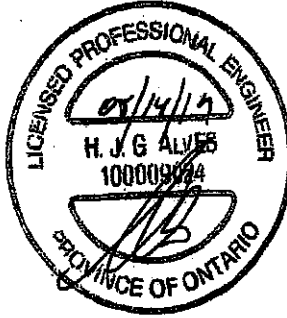
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MT20	MAX MIN	MAX MIN	MAX MIN
	618 354	1967 788	1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

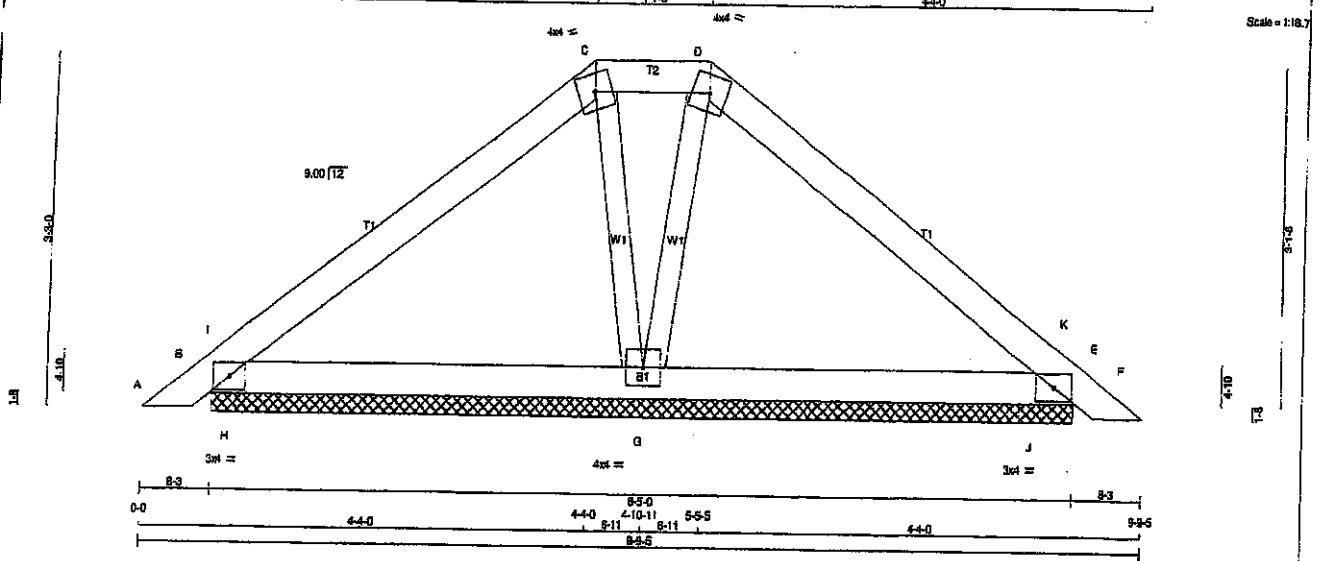
JSI GRIP = 0.20 (B) (INPUT = 0.30)
 JSI METAL = 0.05 (H) (INPUT = 1.00)



Structural component only
 DWG# T-1911479

JOB NAME 403045	TRUSS NAME P2	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Trusswork Roof Truss, Burlington				TRUSS DESC.	

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ID:D7uIPnW8?DzGkx1HTFaFreyNCCH-W?3EyywExzB3E12xHEoYXNFUpkP9ki1kr68IDzGdOm



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
B - E	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-H	MT20	3.0	4.0		
C	TTW-m	MT20	4.0	4.0		
D	TTW-m	MT20	4.0	4.0		
E	TMB1-H	MT20	3.0	4.0		
G	BMWW1-H	MT20	4.0	4.0		

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

BEARINGS

JT	FACTORED		MAXIMUM FACTORED		INPUT	RECORD
	GROSS REACTION	DOWN	GROSS REACTION	DOWN		
B	401	0	401	0	8-5-0	8-5-0
E	390	0	390	0	8-5-0	8-5-0
G	514	0	514	0	8-5-0	8-5-0

UNFACTORED REACTIONS							
JT	1ST LGASE		MAX/MIN COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	293	182/0	43/0	0/0	0/0	67/0	0/0
E	285	179/0	42/0	0/0	0/0	65/0	0/0
G	390	197/0	52/0	0/0	0/0	102/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/17	-102.1 -102.1	0.03 (1)	C-G	-127/0	0.02 (1)	
B-I	-117/0	-102.1 -102.1	0.05 (1)	G-D	-129/0	0.02 (1)	
I-C	-186/0	-102.1 -102.1	0.18 (1)	H-I	-304/78	0.00 (1)	
C-D	-88/0	-102.1 -102.1	0.02 (1)	J-K	-327/55	0.00 (1)	
D-K	-157/0	-102.1 -102.1	0.17 (1)				
K-E	-103/0	-102.1 -102.1	0.06 (1)				
E-F	0/17	-102.1 -102.1	0.03 (1)				
B-H	0/126	-38.5 -38.5	0.14 (1)				
H-G	0/126	-38.5 -38.5	0.20 (2)				
G-J	0/119	-38.5 -38.5	0.19 (2)				
J-E	0/119	-38.5 -38.5	0.15 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 5.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-08, CSA 086-14
- TFC 2011, TFC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (C-I), BC=0.20/1.00 (G-H), WB=0.02/1.00 (D-G), SI=0.28/1.00 (E-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

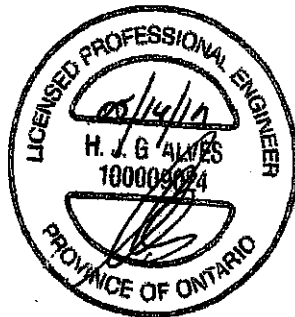
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1567 788 1567 1556

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

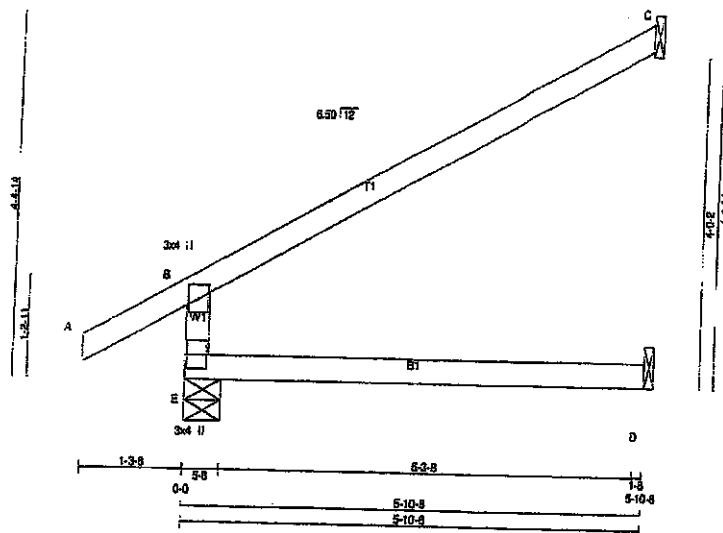
ISI GRIP = 0.30 (B) (INPUT = 0.30)
ISI METAL = 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-1911480

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
403045	U1	17	1	GREEN PARK HOMES		
Tamarack Roof Truss, Burlington						

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 ID:D7uPnW9?DzG3kx1HTFaFrayNCOCH-6QNSKwtMa2pVNPJMc8FvldsxWNBXOHb1tuUhzGdDp
 5-10-8
 Scale = 1/2" = 1'-0"



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

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	848	0	848	0	5-8	5-8
C	225	0	225	0	1-8	1-8
D	94	0	119	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	PERMUTIVE			
E	473	292/0	72/0	0/0	0/0	109/0	0/0
C	154	128/0	0/0	0/0	0/0	28/0	0/0
D	85	0/0	51/0	0/0	0/0	34/0	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.	FORCE	FACTORED		FACTORED		MEMB.	MAX. FACTORED
	(LBS)	VERT. LOAD	LOC	MAX.	MAX.		FORCE
		(PLF)	CSI (LC)	UNBRAC	LENGTH		MAX
FR-TO		FROM TO			FR-TO		CSI (LC)
E-B	-514/0	0.0	0.0	0.21 (3)	7.81		
A-B	0/33	-102.1	-102.1	0.13 (1)	10.00		
B-C	-36/0	-102.1	-102.1	0.80 (1)	6.25		
E-D	0/0	-38.5	-38.5	0.21 (3)	10.00		

TOTAL WEIGHT = 17 X 17 = 289 lb

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 25.0 PSF
 DL = 8.0 PSF
 BOT CH. LL = 10.5 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 52.5 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 2015, OBC 2012
 - CSA 086-08, CSA 088-14
 - TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR OUT OFF.

(6% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")
 CALCULATED VERT. DEFL. (LL) = L/999 (0.05")
 ALLOWABLE DEFL. (TL) = L/360 (0.20")
 CALCULATED VERT. DEFL. (TL) = L/930 (0.08")

CSI: TO=0.80/1.00 (B-C:1), BC=0.21/1.00 (D-E:3), WB=0.00/1.00 (n/a:0), SSI=0.28/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
 PLATE GRIP (DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 818 354 1667 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.22 (E) (INPUT=0.90)
 JSI METAL=0.15 (B) (INPUT=1.00)



Structural component only
 DWG# T-1911476

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
403060	J4	6	1	TRUSS DESC.		

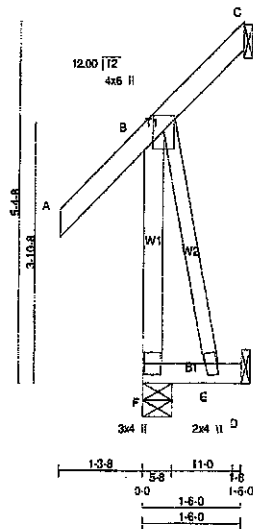
Tamarack Roof Truss, Burlington

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ID:vk_15VXL54FY8brNpe87hlyMICK-LOsAm60N96Re0aMpCwgYrdspAvYqdoXn5G1wyzGcaJ

1-3-8 0.0 1-6-0 1-6-0

Scale = 1:30.3



TOTAL WEIGHT = 6 X 14 = 81 lb

LUMBER

N. L. G. A. RULES

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	2.75 2.00
E	BMV+w	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	314	0	314	0	5-8	5-8
C	10	0	10	0	1-8	1-8
D	29	0	37	0	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	222	162 / 0	16 / 0	0 / 0	0 / 0	44 / 0	0 / 0
C	7	6 / -38	0 / 0	0 / 0	0 / 0	1 / 0	0 / 0
D	26	0 / 0	16 / 0	0 / 0	0 / 0	11 / 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
F-B	-285 / 0	0.0 0.0	0.07 (1)	B-E	0 / 0	0.00 (1)	
A-B	0 / 50	-102.1 -102.1	0.14 (1)				
B-C	-47 / 0	-102.1 -102.1	0.14 (1)				
F-E	0 / 0	-38.5 -38.5	0.02 (3)				
E-D	0 / 0	-38.5 -38.5	0.02 (3)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	29.0 PSF
	DL	=	8.0 PSF
BOT CH.	LL	=	10.5 PSF
	DL	=	7.0 PSF
TOTAL LOAD		=	52.5 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
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.14/1.00 (A-B:1), BC=0.02/1.00 (E-F:3),
WB=0.00/1.00 (B-E:1), SS1=0.08/1.00 (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

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.20 (B) (INPUT = 0.80)
JSI METAL=0.07 (B) (INPUT = 1.00)



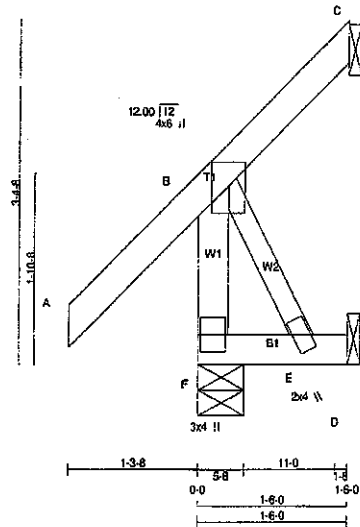
Structural component only
DWG# T-1911506

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
403060	U5	9	1	TRUSS DESC.		
Tamarack Roof Truss, Burlington						

Version 8.300 S Apr 23 2019 Mitek Industries, Inc. Tue May 14 11:25:31 2019 Page 1

1D:vk_f5VXL54fY8brNpe87hlyMICK-paQZzS1?wPZVelo0ldQv52A1YaFnZ42g0l0bS0zGca

Scale = 1:20.0



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	6.0	2.75
E	BMV+w	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP	IN-SX
F	314	0	0	5-8
C	10	10	0	1-8
D	29	37	0	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	222	162/0	16/0	0/0	0/0	44/0	0/0
C	7	61/38	0/0	0/0	0/0	1/0	0/0
D	26	0/0	16/0	0/0	0/0	11/0	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	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX	MAX.	MEMB.	FORCE	MAX
MEMB.	FORCE	VERT. LOAD LC1	MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	MAX	
FR-TO		FROM TO	LENGTH	FR-TO				
F-B	-285/0	0.0	0.0	0.03(1)	7.81	B-E	0/0	0.00(1)
A-B	0/50	-102.1	-102.1	0.14(1)	10.00			
B-C	-47/0	-102.1	-102.1	0.14(1)	6.25			
F-E	0/0	-38.5	-38.5	0.02(3)	10.00			
E-D	0/0	-38.5	-38.5	0.02(3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.14/1.00 (A-B:1), BC=0.02/1.00 (E-F:3),
WB=0.00/1.00 (B-E:1), SSI=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

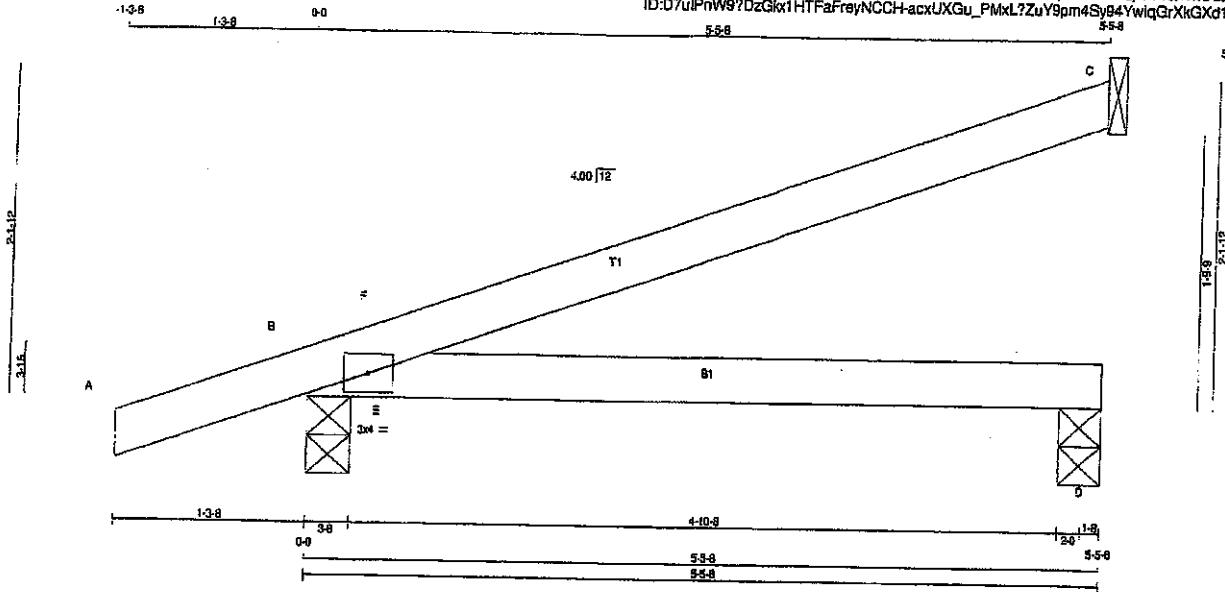
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-1911507

JOB NAME 403045	TRUSS NAME J90	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.300 9 Apr 23 2019 Mitek Industries, Inc. Tue May 14 10:41:15 2019 Page 1 ID: D7uIPnW97DzGlx1HTFaFreyNCCH+acxUXGu_PmXL7ZuY9pm4Sy94YwIqGrXkGXd1ELzGdDc			



TOTAL WEIGHT = 4 X 14 = 56 lb

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

DRY: SEASONED LUMBER.

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	HORIZ	UPLIFT	BRG	BRG
C	250	0	250	0	0	1-8	1-8
B	520	0	520	0	0	3-8	3-8
D	133	0	145	0	0	3-8	3-8

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

UNFACTORED REACTIONS							
JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	175	133/0	9/0	0/0	0/0	33/0	0/0
B	380	238/0	57/0	0/0	0/0	87/0	0/0
D	111	25/0	49/0	0/0	0/0	38/0	0/0

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO				FR-TO			
A-B	0/20	-102.1	-102.1	10.00	E-F	-254/122	0.00(1)
B-F	-51/0	-102.1	-102.1	10.00			
F-C	0/6	-102.1	-102.1	10.00			
B-E	0/0	-38.5	-38.5	0.28(1)	10.00		
E-D	0/0	-38.5	-38.5	0.31(1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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, CBO 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/942 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/489 (0.13")

CS: TC=0.42/1.00 (C-F:1), BC=0.31/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.28/1.00 (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	GRP(DRY)	SHEAR	SECTION
	(PS)	(PL)	(PL)
MT20	618	354	1857 788 1887 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.31 (B) (INPUT = 0.90)
JSI METAL=0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-1911477



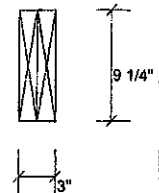
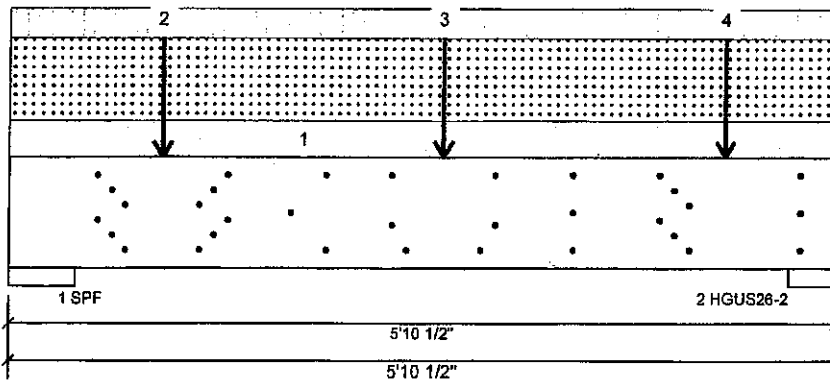
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Client:
Project:
Address:Date: 5/14/2019
Designer:
Job Name: 200598
Project #:

Page 1 of 13

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Member Information**

Type:	Girder	Application:	Roof (Residential)
Piles:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015
Deflection TL:	360	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	376	503	1210	0
2	314	415	1001	0

Bearings and Factored Reactions

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	28%	629 / 2190	2819	L	1.25D+1.5S +L
2 - HGUS...	4.000"	32%	519 / 1815	2334	L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2982 ft-lb	3'1"	6039 ft-lb	0.494 (49%)	1.25D+1.5S +L	L
Unbraced	2982 ft-lb	3'1"	5236 ft-lb	0.570 (57%)	1.25D+1.5S +L	L
Shear	2763 lb	1'2"	3984 lb	0.694 (69%)	1.25D+1.5S +L	L
LL Defl inch	0.025 (L/2459)	2'11 9/16"	0.174 (L/360)	0.150 (15%)	S+0.5L	L
TL Defl inch	0.035 (L/1809)	2'11 9/16"	0.174 (L/360)	0.200 (20%)	D+S+0.5L	L

Design Notes

- 1 Fasten all piles using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

DWG NO. TAM111517
STRUCTURAL
COMPONENT ONLY 1/3

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		2-0-0	Near Face	13 PSF	10.5 PSF	29.5 PSF	0 PSF	
2	Point	1-1-0		Far Face	350 lb	256 lb	848 lb	0 lb	
3	Point	3-1-0		Far Face	208 lb	155 lb	508 lb	0 lb	
4	Point	5-1-0		Far Face	208 lb	155 lb	508 lb	0 lb	

Manufacturer InfoTimarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115

This design is valid until 12/11/2021





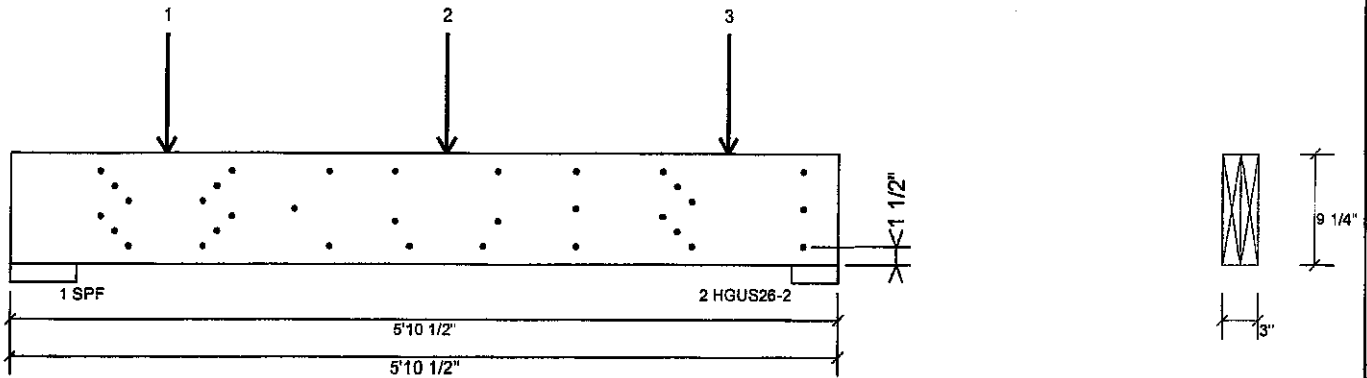
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Client:
Project:
Address:Date: 5/14/2019
Designer:
Job Name: 200598
Project #:

Page 2 of 13

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Multi-Ply Analysis**

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6"

Capacity	20.9 %
Load	71.0 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

Concentrated Load

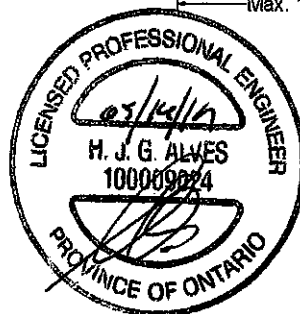
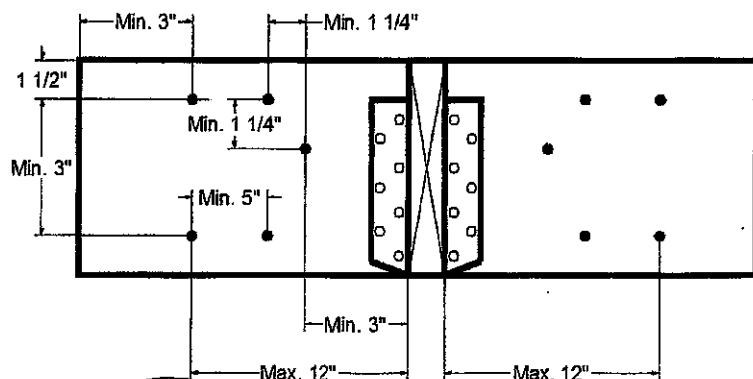
Fasten at concentrated side load at 1-1-0 with a minimum of (12) – Pneumatic Gun Nail (.120x3.25") in the pattern shown.

Capacity	72.3 %
Load	982.8lb.
Total Yield Limit	1360.2 lb.
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 3-1-0 with a minimum of (6) – Pneumatic Gun Nail (.120x3.25") in the pattern shown.

Capacity	86.5 %
Load	588.5lb.
Total Yield Limit	680.1 lb.
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads

DWG NO. TAM 1911517
STRUCTURAL
COMPONENT ONLY 2/3

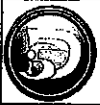
Manufacturer Info

Tamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115



This design is valid until 12/11/2021





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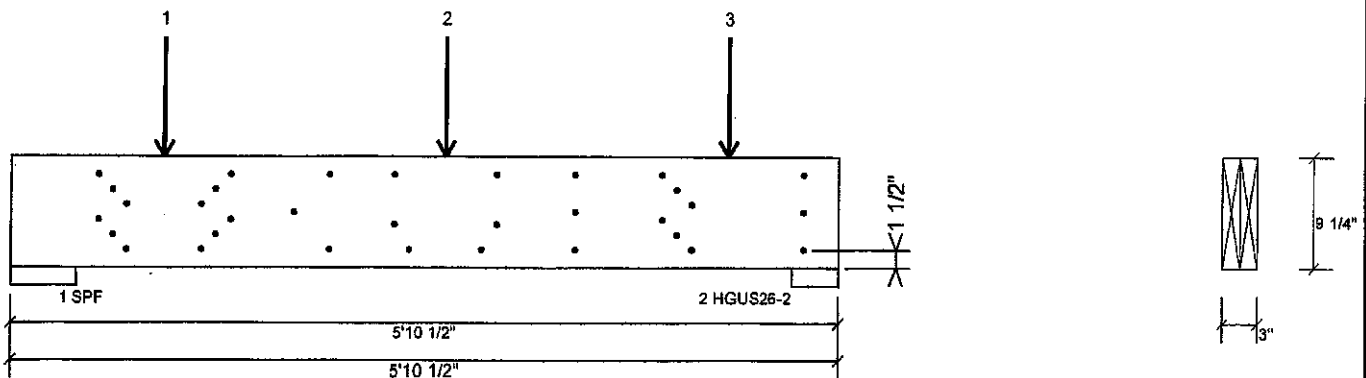
Client:
Project:
Address:

Date: 5/14/2019
Designer:
Job Name: 200598
Project #:

Page 3 of 13

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c., except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6"

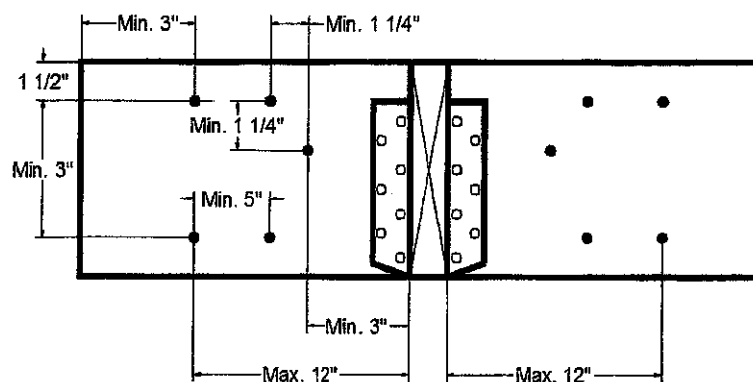
Capacity	20.9 %
Load	71.0 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 5-1-0 with a minimum of (6) - Pneumatic Gun Nail (.120x3.25") in the pattern shown.

Capacity	88.5 %
Load	588.5lb.
Total Yield Limit	680.1 lb.
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Load Combination	1.25D+1.5S+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



DWG NO. TAM 11911517
STRUCTURAL
COMPONENT ONLY 3/3

Manufacturer Info

Tamarack Roof Trusses
3269 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115

TAMARACK
LUMBER INC
ALPHA LUMBER GROUP

This design is valid until 12/11/2021





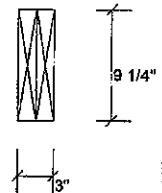
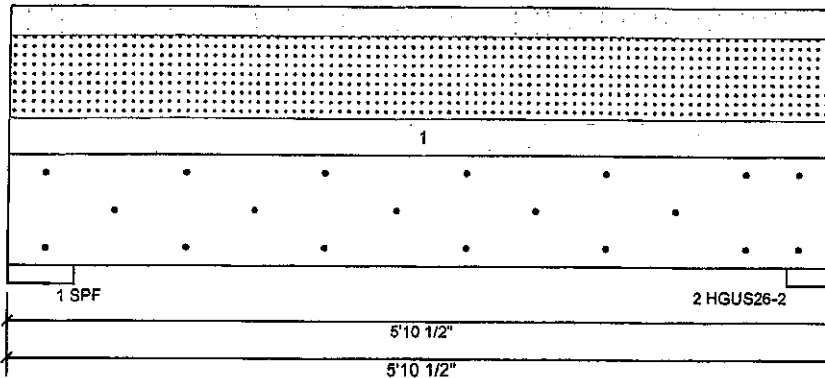
isDesign™

Client:
Project:
Address:Date: 5/14/2019
Designer:
Job Name: 200598
Project #:

Page 10 of 13

B5 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Member Information**

Type:	Girder	Application:	Roof (Residential)
Piles:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015
Deflection TL:	360	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	269	333	756	0
2	258	319	724	0

Bearings and Factored Reactions

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	18%	416 / 1403	1819	L	1.25D+1.5S +L
2 - HGUS...	4.000"	24%	399 / 1345	1744	L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2056 ft-lb	3'	6039 ft-lb	0.341 (34%)	1.25D+1.5S	L
Unbraced	2056 ft-lb	3'	5236 ft-lb	0.393 (39%)	1.25D+1.5S	L
Shear	1579 lb	12"	3984 lb	0.396 (40%)	1.25D+1.5S	L
LL Defl inch	0.018 (L/3466)	3'	0.174 (L/360)	0.100 (10%)	S+0.5L	L
TL Defl inch	0.025 (L/2523)	3'	0.174 (L/360)	0.140 (14%)	D+S+0.5L	L

Design Notes

- 1 Fasten all piles using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 1194521
STRUCTURAL
COMPONENT ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		8-6-8	Near Face	13 PSF	10.5 PSF	29.5 PSF	0 PSF	

Manufacturer Info

Tamarack Roof Trusses
3289 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115



This design is valid until 12/11/2021





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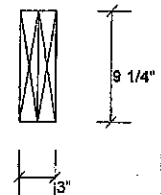
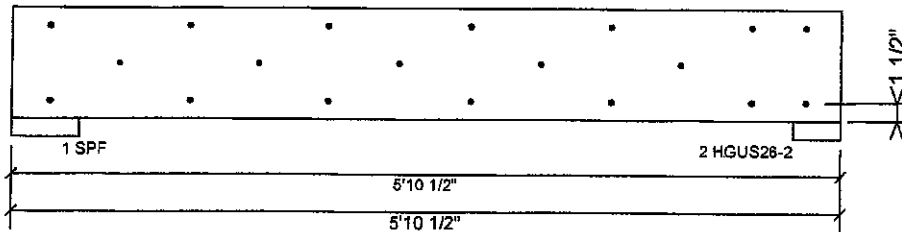
Client:
Project:
Address:

Date: 5/14/2019
Designer:
Job Name: 200598
Project #:

Page 11 of 13

B5 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	89.2 %
Load	303.2 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00



DWG NO. TAM 1791/521
STRUCTURAL
COMPONENT ONLY 3/2

Manufacturer Info	Tamarack Roof Trusses 3289 North Service Rd., ON Canada L7N3G2 (905) 335-1115
	TAMARACK LUMBER INC ALPA LUMBER GROUP

This design is valid until 12/11/2021





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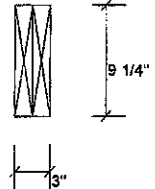
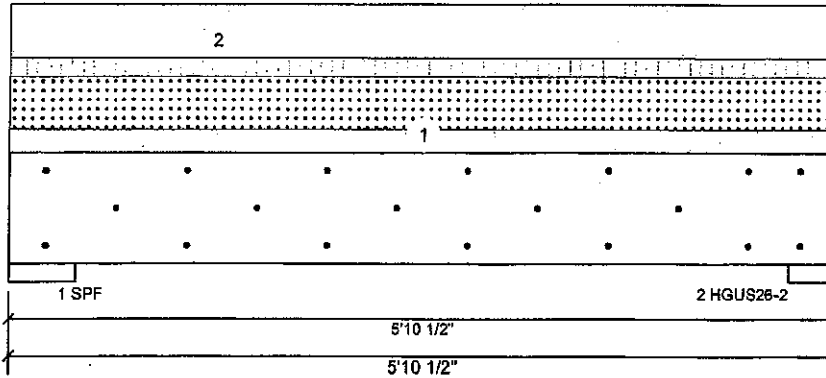
Client:
Project:
Address:

Date: 5/14/2019
Designer:
Job Name: 200598
Project #:

Page 8 of 13

B6 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Member Information**

Type: Girder
Piles: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 360
Importance: Normal

Application: Roof (Residential)
Slope: 0/12
Design Method: LSD
Building Code: NBCC 2015
Load Sharing: No
Deck: Not Checked
Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	194	331	546	0
2	186	317	523	0

Bearings and Factored Reactions

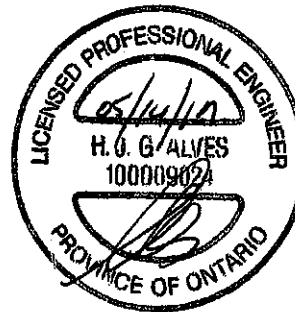
Bearing	Length	Cap. React	D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	14%	413 / 1013	1426 L	1.25D+1.5S +L
2 - HGUS...	4.000"	19%	396 / 971	1367 L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1612 ft-lb	3'	6039 ft-lb	0.267 (27%)	1.25D+1.5S	L
Unbraced	1612 ft-lb	3'	5236 ft-lb	0.308 (31%)	1.25D+1.5S	L
Shear	1209 lb	12"	3984 lb	0.303 (30%)	1.25D+1.5S	L
LL Defl inch	0.013 (L/4801)	3'	0.174 (L/360)	0.070 (7%)	S+0.5L	L
TL Defl inch	0.020 (L/3171)	3'	0.174 (L/360)	0.110 (11%)	D+S+0.5L	L

Design Notes

- 1 Fasten all piles using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all piles.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 17911520
STRUCTURAL
COMPONENT ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		6-2-0	Near Face	13 PSF	10.5 PSF	29.5 PSF	0 PSF	
2	Uniform			Top	30 PLF	0 PLF	0 PLF	0 PLF	

Manufacturer Info

Tamarack Roof Trusses
3286 North Service Rd., ON
Canada
L7N3G2
(905) 335-1115



This design is valid until 12/11/2021





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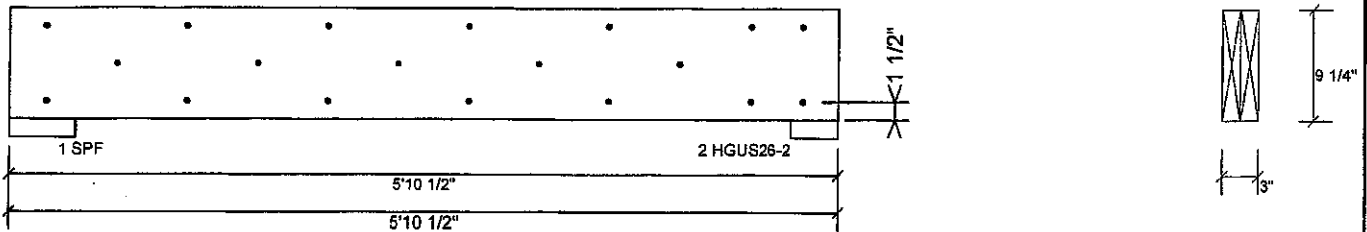
Client:
Project:
Address:

Date: 5/14/2019
Designer:
Job Name: 200598
Project #:

Page 9 of 13

B6 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

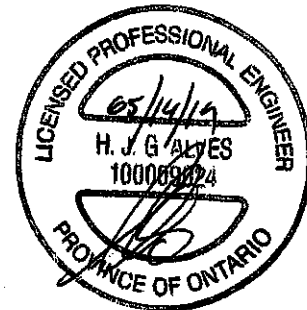
Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	64.4 %
Load	218.9 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00



DWG NO. TAM 11911520
STRUCTURAL
COMPONENT ONLY 2/2

Manufacturer Info	Tamarack Roof Trusses 3269 North Service Rd., ON Canada L7N3G2 (905) 335-1115
	TAMARACK LUMBER INC ALPHA LUMBER GROUP

This design is valid until 12/11/2021

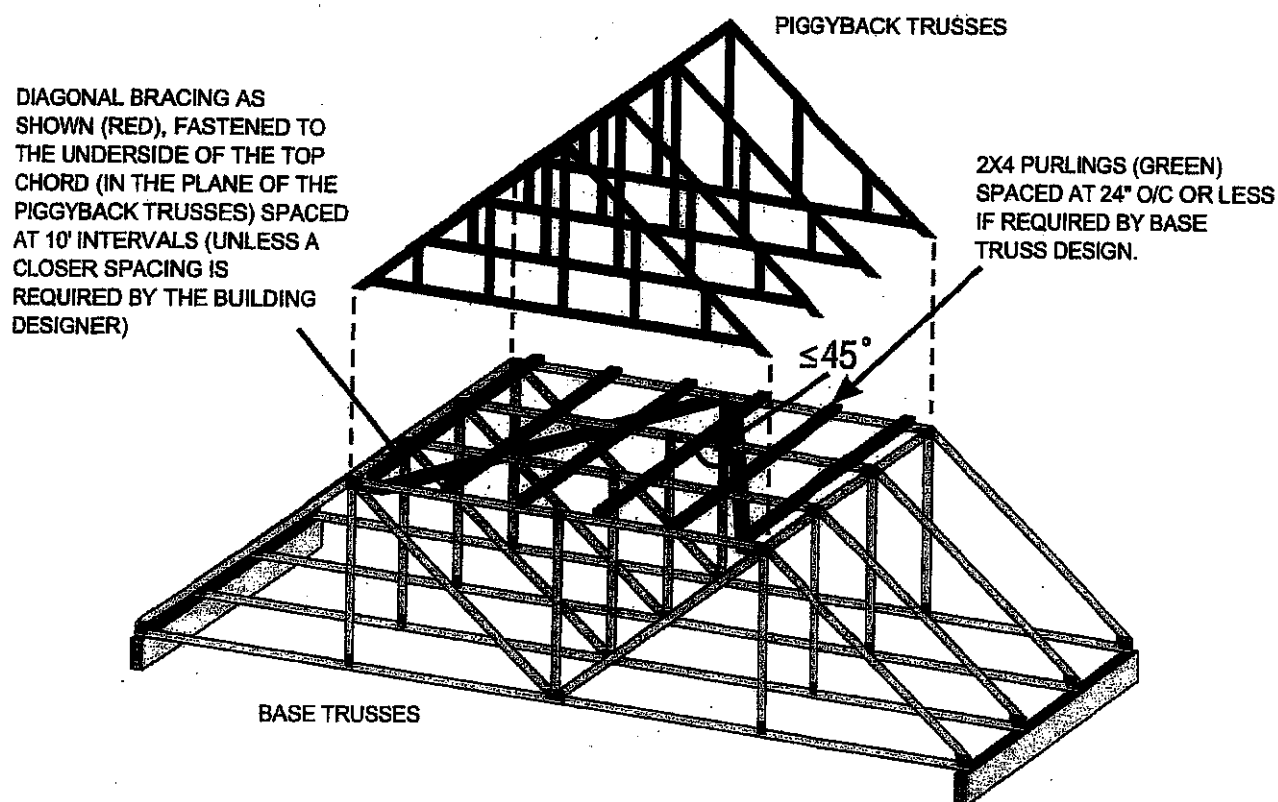


Overview:

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

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

Detail:



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

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

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

LUS - Double Shear Joist Hangers

SIMPSON
Strong-Tie

All LUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections.

Material: 18 gauge

Finish: G90 galvanized

Design:

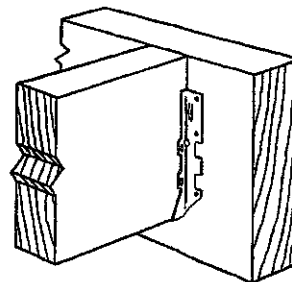
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

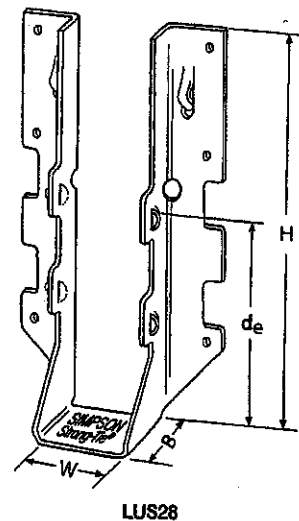
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

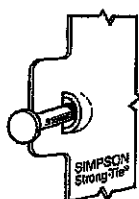


Typical LUS Installation



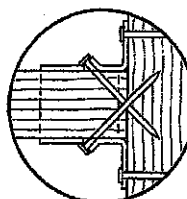
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
LUS24	18	1 1/8	3 1/8	1 1/4	1 1/8	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3 1/8	3 1/8	2	1 1/8	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1 1/8	4 1/4	1 1/4	3 1/8	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3 1/8	4 1/4	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4 1/8	4 1/8	2	3 1/4	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1 1/8	6 1/8	1 1/4	3 3/4	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4 1/8	6 1/4	2	3 1/4	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1 1/8	7 1/8	1 1/4	3 3/8	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4 1/8	8 3/8	2	5 1/4	(8) 16d	(6) 16d	2580	3345	2320	2375

1. d_e is the distance from the seat of the hanger to the highest joist nail.



Dome Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



Double Shear Nailing Top View.



DESIGN

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SPSCLUST7 2/17 and 2/18

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strongtie.com

HUS/LJS - Double Shear Joist Hangers

SIMPSON
Strong-Tie

All hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

Material: See table

Finish: G90 galvanized

Design:

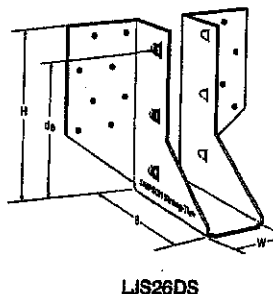
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

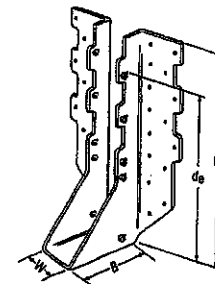
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

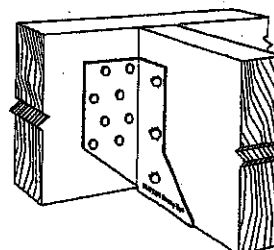
- See current catalogue for options



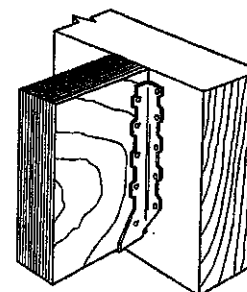
LJS26DS



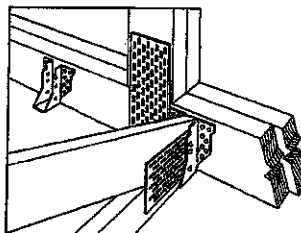
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



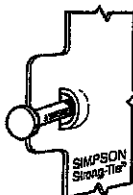
Typical HUS
Installation



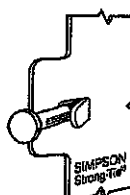
Typical HUS Installation
(Truss Designer to provide fastener
quantity for connecting multiple
members together)

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _s ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _u =1.15)	Normal (K _n =1.00)	Uplift (K _u =1.15)	Normal (K _n =1.00)
LJS26DS	18	1 1/16	5	3 1/2	4 5/8	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	18	1 1/16	5 1/2	3	3 15/16	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1 1/8	7 1/2	3	6 1/2	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1 1/8	9 1/2	3	7 3/4	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.B1/10	16	1 1/8	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

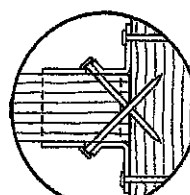
1. d_s is the distance from the seat of the hanger to the highest joist nail.



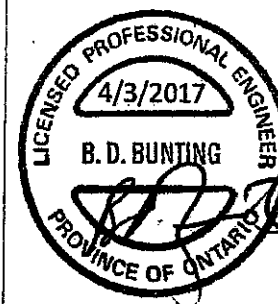
Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models).
U.S. Patent
5,603,580



Double
Shear
Nailing
Side View.
Do not
bend tab
back.



Double
Shear
Nailing
Top View.



DESIGN

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HGUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

All HGUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

Material: 12 gauge

Finish: G90 galvanized

Design:

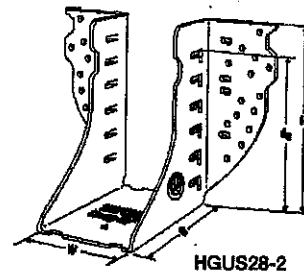
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%.
No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

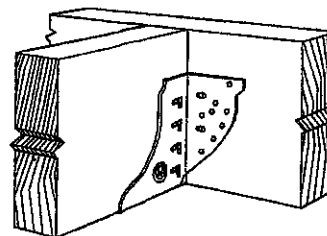
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

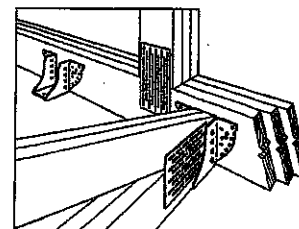
- See current catalogue for options



HGUS28-2



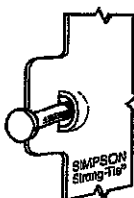
Typical HGUS
Installation



Typical HGUS
Installation
(Truss Designer to
provide fastener
quantity for
connecting multiple
members together)

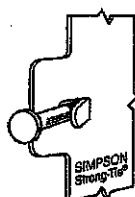
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
HGUS26	12	1 1/8	5 1/8	5	4 1/2	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1 1/8	7 1/8	5	6 1/8	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645

1. d_e is the distance from the seat of the hanger to the highest joist nail.

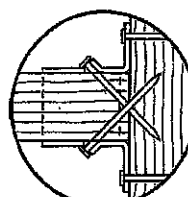


Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent
5,603,580



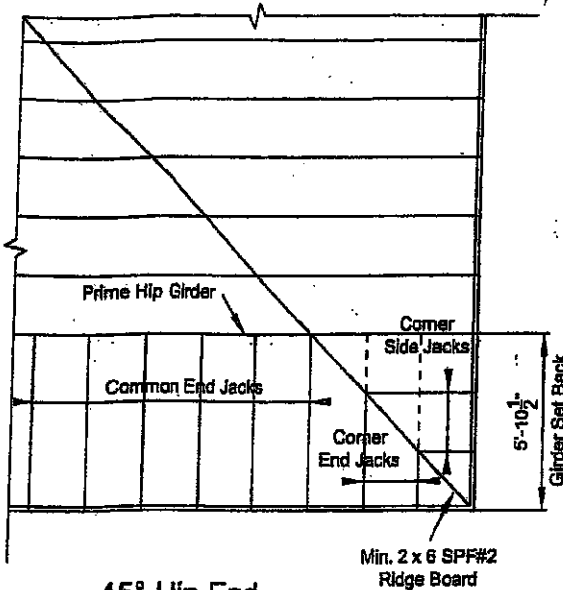
Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



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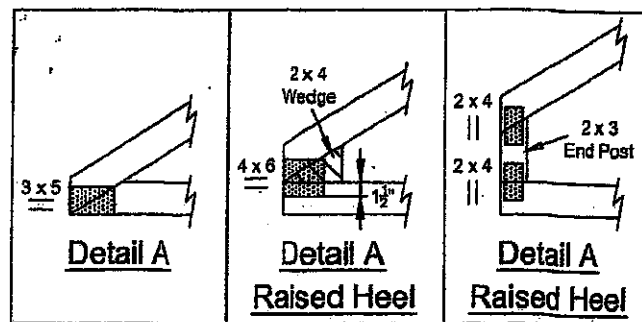
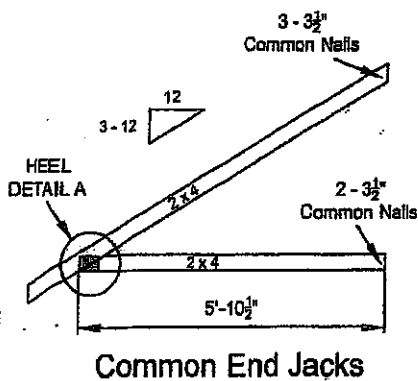
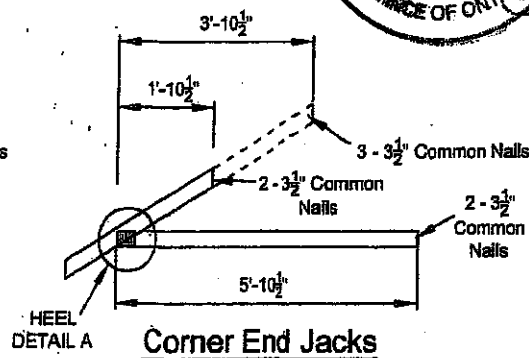
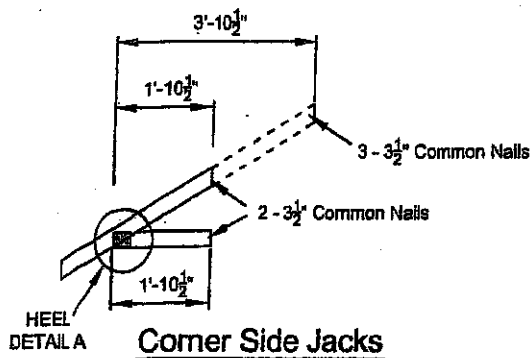
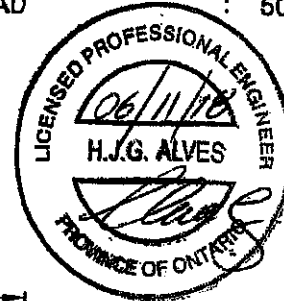
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

DESIGN LOAD

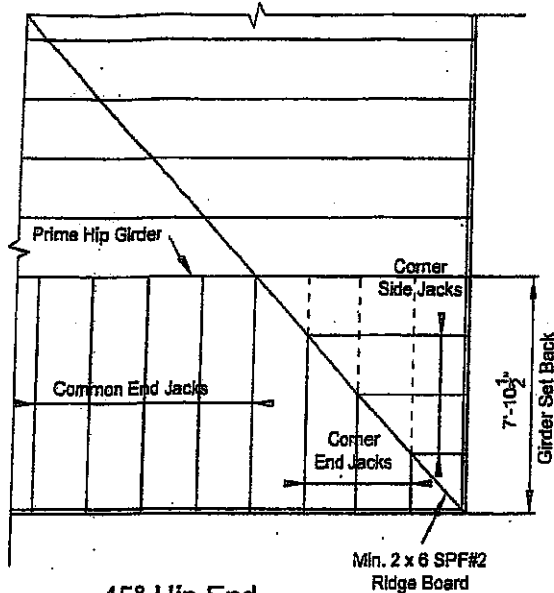
TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 50.5 P.S.F



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800216



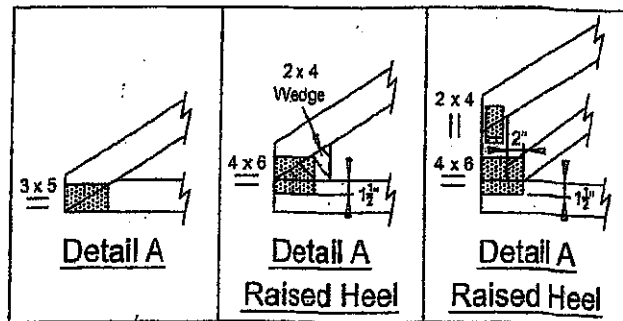
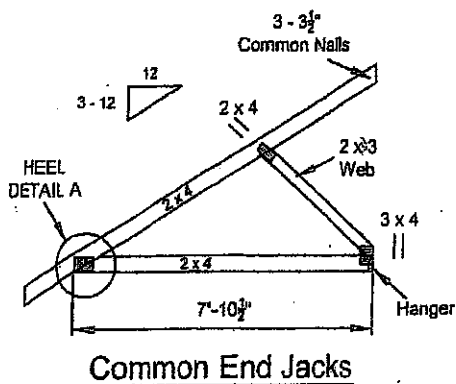
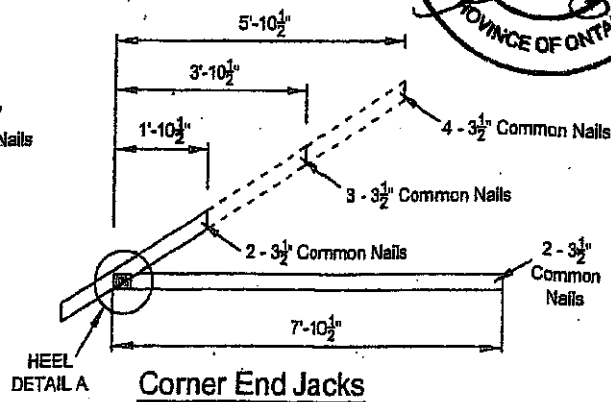
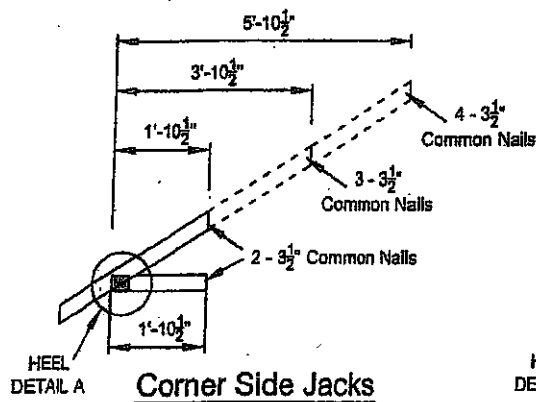
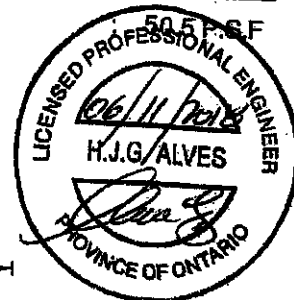
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD

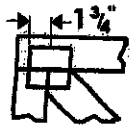


NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

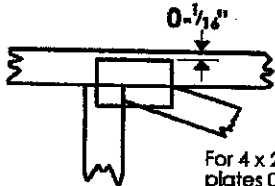
T-1800217

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/4" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

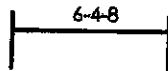


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

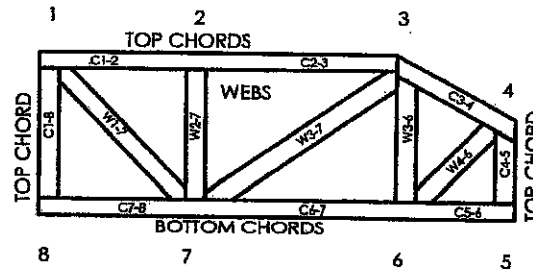
Industry Standards:

- TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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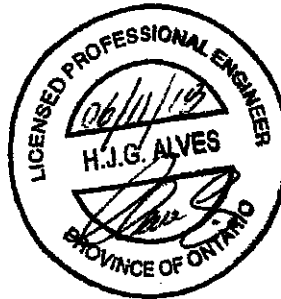
MiTek
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MiTek Engineering Reference Sheet: MII-7473C rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.



Alves Engineering Services Inc.

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(289) 259 5455

RESPONSABILITIES

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

SPECIFICATIONS

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

T-1300218

Feb 09, 2018