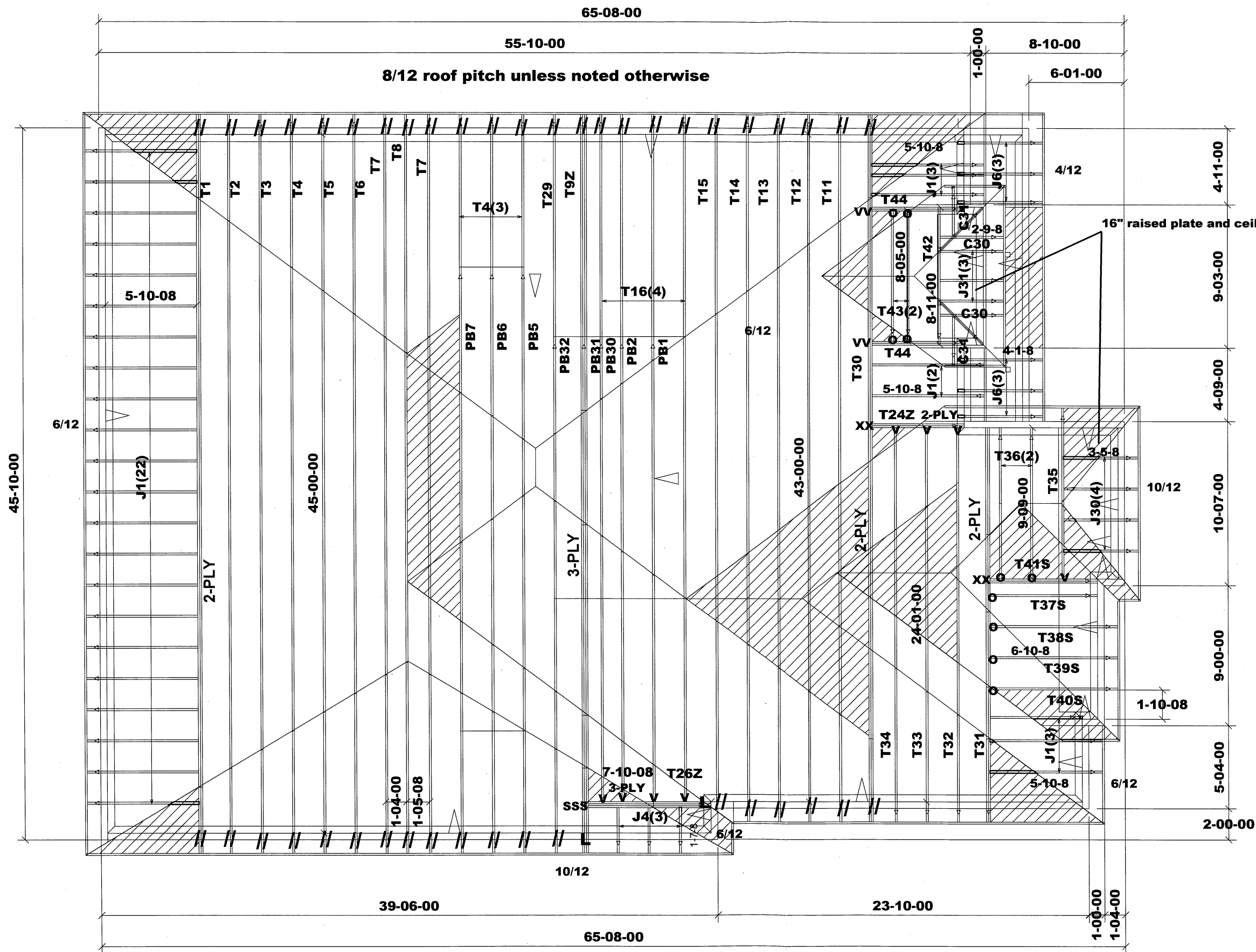




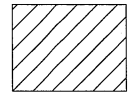
ASPHALT SHINGLES
 FINISHED OVERHANG: 12"
 2x6 EXTERIOR WALLS
 2x6 FASCIA BOARD
 HEEL: R.T.M.C.

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

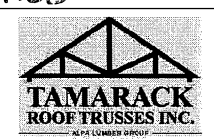
DESIGN CONFORMS WITH OBC 2012 (2019 amendment) OCCUPANCY: RESIDENTIAL | PART: 9
 Ss = 31.35 psf | Sr = 8.4 psf

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

HARDWARE:
 LUS24 - (O)
 LJS26DS - (V)
 HGUS26-2 - (XX)
 LUS26-2 (VV)
 HGUS28-3 -(SSS)
 H2.5A-(/)
 LGT3-SDS2.5-(L)

 **DENOTES:**
 CONVENTIONAL
 FRAMING

M14156



Job Track: **52166**
 Plan Log: **204651**
 Layout ID: **418362**

Builder / Location:
GREENPARK HOMES / HAMILTON
 Project: **RUSSELL GARDENS PH.4**
 Date: 2021-07-27 Sales: **William Garcia** Designer: **JG**

Model / Elevation:
GRANDVILLE 9/2

Mitek ver 8.4.2.286

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

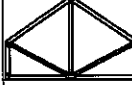
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREENPARK HOMES Project: RUSSELL GARDENS PH.4 Location: HAMILTON Model: GRANDVILLE 9 Lot #: Elevation: 2	Job Track: 52166 PlanLog: 204651 Layout ID: 418362 Ref # Page: 1 of 4 Date: 07-26-2021 Designer: Sales Rep: William Garcia

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 Roof Special Girder	8 / 12	45-00-00	4-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	509.35 306.67		
	1	T2 Roof Special	8 / 12	45-00-00	5-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	260.69 157.33		
	1	T3 Roof Special	8 / 12	45-00-00	6-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	272.6 168.00		
	4	T4 Roof Special	8 / 12	45-00-00	7-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	1114.75 680.00		
	1	T5 Roof Special	8 / 12	45-00-00	8-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	292.95 176.67		
	1	T6 Roof Special	8 / 12	45-00-00	9-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	293.51 177.33		
	2	T7 Roof Special	8 / 12	45-00-00	10-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	608.9 362.67		
	1	T8 Roof Special	8 / 12	45-00-00	10-09-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	312.04 187.00		
	1 3-ply	T9Z Piggyback Base Girder	8 / 12	45-00-00	10-01-11	2 x 6 2 x 8	1-03-08 1-03-08	1-04-13 1-07-11	955.77 579.00		
	1	T11 Hip	8 / 12	43-00-00	5-01-06	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	250.47 153.33		
	1	T12 Hip	8 / 12	43-00-00	6-01-06	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	253.24 154.00		
	1	T13 Hip	8 / 12	43-00-00	7-01-06	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	257.94 157.33		
	1	T14 Hip	8 / 12	43-00-00	8-02-06	2 x 6	1-03-08 1-05-00	1-04-13 1-04-13	272.9 165.33		
	1	T15 Hip	8 / 12	43-00-00	9-01-06	2 x 6	1-03-08	1-04-13 1-04-13	280.68 170.00		

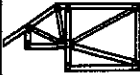
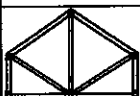
DELIVERY SHIPLIST											
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP			Lumber Yard: TAMARACK LUMBER					Job Track: 52166			
			Builder: GREENPARK HOMES					PlanLog: 204651			
			Project: RUSSELL GARDENS PH.4					Layout ID: 418362			
			Location: HAMILTON					Ref #			
			Model: GRANDVILLE 9					Page: 2 of 4			
			Lot #:					Date: 07-26-2021			
			Elevation: 2					Designer:			
								Sales Rep: William Garcia			

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	4	T16 Hip	8 /12	43-00-00	10-01-06	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	1104.37 649.33		
	1 2-ply	T24Z Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	1 3-ply	T26Z Half Hip Girder	6 /12	7-10-08	2-11-15	2 x 4 2 x 6		1-02-00 2-11-15	110.29 74.00		
	1	T29 Piggyback Base	8 /12	45-00-00	10-01-11	2 x 6	1-03-08 1-03-08	1-04-13 1-07-11	295.84 177.00		
	1 2-ply	T30 Hip Girder	8 /12	43-00-00	4-01-06	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	490.37 298.67		
	1 2-ply	T31 Roof Special Girder	8 /12	24-01-00	7-03-13	2 x 4 2 x 6	1-03-08	1-04-13 2-08-13	250.48 159.67		
	1	T32 Hip	8 /12	24-01-00	5-01-04	2 x 4	1-03-08	1-04-13 2-08-13	101.22 64.17		
	1	T33 Hip	8 /12	24-01-00	6-01-04	2 x 4	1-03-08	1-04-13 2-08-13	101.81 64.33		
	1	T34 Hip	8 /12	24-01-00	7-01-04	2 x 4	1-03-08	1-04-13 2-08-13	112.41 72.00		
	1	T35 Hip Girder	8 /12	9-09-00	4-06-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	48.17 29.67		
	2	T36 Common	8 /12	9-09-00	5-11-13	2 x 4		2-08-13 2-08-13	85.36 58.00		
	1	T37S Jack-Closed	8 /12	6-10-08	7-03-13	2 x 4		1-04-13 7-03-13	42.43 27.67		
	1	T38S Half Hip	8 /12	6-10-08	6-07-13	2 x 4	1-03-08	1-04-13 6-07-13	47.36 30.67		
	1	T39S Half Hip	8 /12	6-10-08	5-03-13	2 x 4	1-03-08	1-04-13 5-03-13	44.59 29.00		

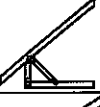
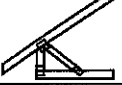
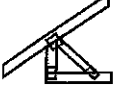
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: GREENPARK HOMES Project: RUSSELL GARDENS PH.4 Location: HAMILTON Model: GRANDVILLE 9 Lot #: Elevation: 2	Job Track: 52166 PlanLog: 204651 Layout ID: 418362 Ref # Page: 3 of 4 Date: 07-26-2021 Designer: Sales Rep: William Garcia

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	T40S Half Hip	8 /12	6-10-08	3-11-13	2 x 4	1-03-08	1-04-13 3-11-13	38.81 26.17		
	1 2-ply	T41S Jack-Closed Girder	8 /12	6-10-08	7-03-13	2 x 4 2 x 6		1-04-13 7-03-13	97.58 64.00		
	1	T42 Hip Girder	8 /12	8-11-00	3-03-02	2 x 4 2 x 6		1-04-13 1-04-13	41.16 27.33		
	2	T43 Common	8 /12	8-05-00	5-08-08	2 x 4		2-10-13 2-10-13	77.36 52.00		
	2 2-ply	T44 Flat Girder	0 /12	5-10-08	1-04-00	2 x 6		1-04-00 1-04-00	106.11 67.33		
	1	PB1 Piggyback	8 /12	16-10-11	1-00-00	2 x 4			38.17 24.17		
	1	PB2 Piggyback	8 /12	16-10-11	2-00-00	2 x 4			49.92 32.33		
	1	PB5 Piggyback	8 /12	25-10-11	7-04-12	2 x 4			94.53 59.00		
	1	PB6 Piggyback	8 /12	29-10-11	6-04-12	2 x 4			99.85 63.33		
	1	PB7 Piggyback	8 /12	29-10-11	5-04-12	2 x 4			106.08 67.83		
	1	PB30 Piggyback	8 /12	16-10-11	2-08-00	2 x 4			50.84 31.33		
	1 3-ply	PB31 Piggyback	8 /12	16-10-11	3-02-00	2 x 4			155.33 100.50		
	1	PB32 Piggyback	8 /12	16-10-11	4-02-00	2 x 4			49.57 31.67		
	30	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	503.84 320.00		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP		DELIVERY SHIPLIST	
		Lumber Yard: TAMARACK LUMBER Builder: GREENPARK HOMES Project: RUSSELL GARDENS PH.4 Location: HAMILTON Model: GRANDVILLE 9 Lot #: Elevation: 2	Job Track: 52166 PlanLog: 204651 Layout ID: 418362 Ref # Page: 4 of 4 Date: 07-26-2021 Designer: Sales Rep: William Garcia

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
	3	J4 Jack-Open	10 /12	1-07-08	2-11-15	2 x 4	1-03-08	1-07-11 2-11-15	27.37 21.00		
	6	J6 Jack-Open	4 /12	4-01-08	2-01-06	2 x 4	1-03-08	3-15 1-08-07	67.95 44.00		
	4	J30 Jack-Open	10 /12	3-05-08	4-06-04	2 x 4	1-03-08	1-07-11 4-06-04	56.53 38.67		
	3	J31 Jack-Open	8 /12	2-09-08	3-03-02	2 x 4	1-03-08	1-04-13 3-03-02	34.35 23.00		
	2	C30 Jack-Open	8 /12	1-09-07	2-07-02	2 x 4	1-03-08 1-00-01	1-04-13 2-07-02	19.9 12.67		
	2	C31 Jack-Open	8 /12	1-09-07	2-07-02	2 x 4	1-03-08 1-01	1-04-13 2-07-02	17.81 11.33		

TOTAL # TRUSS= 114 TOTAL BFT OF ALL TRUSSES= 6483.5 BFT. TOTAL WEIGHT OF ALL TRSSES 10560.99 LBS

HARDWARE

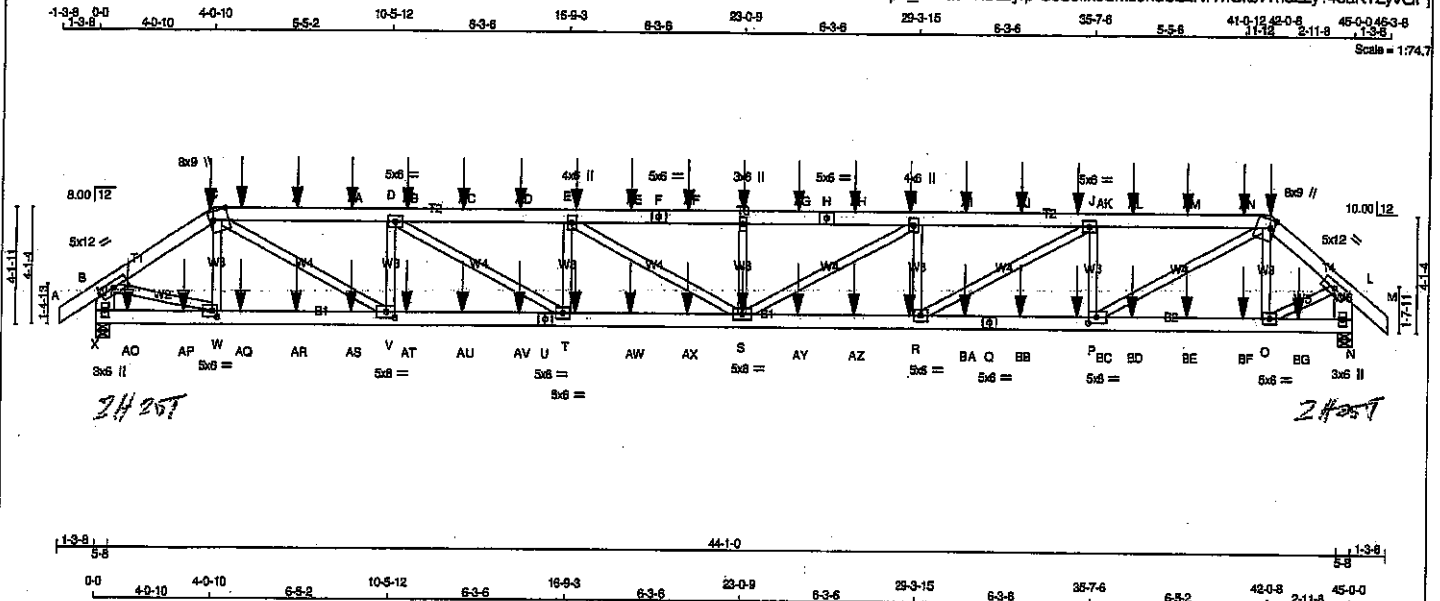
QTY	TYPE	MODEL	LENGTH
2	Hardware	HGUS26-2	
1	Hardware	HGUS28-3	
2		LGT3-SDS2.5	
8	Hardware	LJS26DS	
10	Hardware	LUS24	
2	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 25

JOB NAME 418361	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 28 07:27:12 2021 Page 1
ID:Nx0GIYRcZvpB_E9rQcwHDzyp-CcS9ifk0Um69hdCZ2NrhOkavTnd22y748aKTZyvGPJ



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x8	DRY	No.2	SPF	
C - F	2x6	DRY	No.2	SPF	
F - H	2x6	DRY	No.2	SPF	
H - K	2x6	DRY	No.2	SPF	
K - M	2x6	DRY	No.2	SPF	
X - B	2x8	DRY	No.2	SPF	
N - L	2x8	DRY	No.2	SPF	
X - U	2x6	DRY	1650F 1.5E	SPF	
U - Q	2x6	DRY	1650F 1.5E	SPF	
Q - N	2x6	DRY	1650F 1.5E	SPF	

ALL WEBS EXCEPT 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 2 12		SIDE(140.3)
C-F 2 12		SIDE(210.5)
F-H 2 12		SIDE(210.5)
H-K 2 12		SIDE(210.5)
K-M 2 12		SIDE(140.3)
X-B 2 12		TOP
N-L 2 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
X-U 2 12		SIDE(0.1)
U-Q 2 12		SIDE(210.5)
Q-N 2 12		SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x4 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	5046	5090	205	5-8
X 5046	0	5090	205	5-8
N 5094	0	5094	0	5-8

PROVIDE ANCHORAGE AT BEARING JOINT X FOR 1161 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1158 LBS. FACTORED UPLIFT

PROVIDE FOR 205 LBS. FACTORED HORIZONTAL REACTION AT JOINT X

UNFACTORED REACTIONS

1ST LC CASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
X 3693	2220 / 0 473 / 0 0 / 0 0 / -1153 1030 / 0 0 / 0
N 3725	2223 / 0 473 / 0 0 / 0 14 / -1152 1030 / 0 0 / 0

HORIZONTAL REACTIONS

X	0 / 0	0 / 0	0 / 0	146 / -146	0 / 0	0 / 0
---	-------	-------	-------	------------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 2.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)
FR-TO					FR-TO			
A-B	0 / 49	-115.2	-115.2	0.05 (2)	10.00	W-C	-774 / 254	0.06 (2)
B-C	-8244 / 1399	-115.2	-115.2	0.15 (2)	4.64	O-K	-1057 / 296	0.09 (1)
C-Y	-10870 / 2633	-115.2	-115.2	0.49 (1)	3.40	B-W	-1034 / 5289	0.47 (2)
Y-Z	-10870 / 2633	-115.2	-115.2	0.49 (1)	3.40	O-L	-808 / 4207	0.37 (1)
Z-AA	-10870 / 2633	-115.2	-115.2	0.49 (1)	3.40	P-K	-1719 / 7057	0.62 (2)
AA-D	-10870 / 2633	-115.2	-115.2	0.49 (1)	3.40	C-V	-1640 / 6613	0.58 (3)
D-AB	-14041 / 3382	-115.2	-115.2	0.63 (1)	2.91	P-J	-3165 / 914	0.27 (2)
AB-AC	-14041 / 3382	-115.2	-115.2	0.63 (1)	2.91	V-D	-2945 / 874	0.25 (3)
AC-AD	-14041 / 3382	-115.2	-115.2	0.63 (1)	2.91	R-J	-998 / 4165	0.37 (2)
AD-E	-14041 / 3382	-115.2	-115.2	0.63 (1)	2.91	D-T	-910 / 3703	0.33 (3)
E-AE	-14968 / 3598	-115.2	-115.2	0.64 (1)	2.82	R-I	-1748 / 553	0.15 (2)
AE-F	-14968 / 3598	-115.2	-115.2	0.64 (1)	2.82	T-E	-1519 / 510	0.13 (3)
F-FA	-14968 / 3598	-115.2	-115.2	0.64 (1)	2.82	S-I	-381 / 1588	0.14 (2)
FA-G	-14968 / 3598	-115.2	-115.2	0.64 (1)	2.82	E-S	-295 / 1107	0.10 (1)
G-AG	-14968 / 3598	-115.2	-115.2	0.64 (1)	2.82	S-G	-999 / 379	0.08 (3)
AG-H	-14968 / 3598	-115.2	-115.2	0.64 (1)	2.82			
H-AH	-14968 / 3598	-115.2	-115.2	0.64 (1)	2.82			
AH-I	-13632 / 3285	-115.2	-115.2	0.61 (1)	2.97			
I-AI	-13632 / 3285	-115.2	-115.2	0.61 (1)	2.97			
AI-AJ	-13632 / 3285	-115.2	-115.2	0.61 (1)	2.97			
AJ-AK	-13632 / 3285	-115.2	-115.2	0.61 (1)	2.97			
AK-J	-13632 / 3285	-115.2	-115.2	0.61 (1)	2.97			
J-AL	-10049 / 2447	-115.2	-115.2	0.45 (1)	3.56			
AL-AM	-10049 / 2447	-115.2	-115.2	0.45 (1)	3.56			
AM-AN	-10049 / 2447	-115.2	-115.2	0.45 (1)	3.56			
AN-K	-10049 / 2447	-115.2	-115.2	0.45 (1)	3.56			
K-L	-5185 / 1180	-115.2	-115.2	0.10 (14)	5.08			
L-M	0 / 53	-115.2	-115.2	0.05 (1)	10.00			
X-B	-5025 / 1178	0.0	0.0	0.14 (2)	7.23			
N-L	-5101 / 1174	0.0	0.0	0.14 (1)	7.19			
X-AO	-187 / 196	-39.5	-39.5	0.07 (17)	6.25			
AO-AP	-187 / 196	-39.5	-39.5	0.07 (17)	6.25			
AP-W	-187 / 196	-39.5	-39.5	0.07 (17)	6.25			
W-AQ	-1062 / 5151	-39.5	-39.5	0.26 (2)	6.25			
AQ-AR	-1062 / 5151	-39.5	-39.5	0.26 (2)	6.25			

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 = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN./C

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

NON STANDARD GIRDER

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF NBC 2015, ABC 2015
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPI 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR. EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $\frac{1}{360} (1.50)$
CALCULATED VERT. DEFL.(LL) = $\frac{1}{989} (0.47)$
ALLOWABLE DEFL.(TL) = $\frac{1}{180} (3.00)$
CALCULATED VERT. DEFL.(TL) = $\frac{1}{769} (0.70)$

CSI: TC=0.84/1.00 (E-G-1), BC=0.64/1.00 (S-T-1),
WB=0.62/1.00 (K-F-2), SS=0.19/1.00 (J-K-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MT20	650 371 1747 788 1987 1873	

CONTINUED ON PAGE 2



Structural component only
DWG# T-2123954

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK HOMES	DRWG NO.
418361	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 07:27:12 2021 Page 2
ID:NxOGIYReZivpB E9rQcwHDzcyzp-QcS9iik0Um89hdCZ2NrThOkevTnd22y748akTZyvGPI

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	5.0	12.0		
C	TTWW+m	MT20	8.0	9.0	Edge	6.50
D	TMW-t	MT20	5.0	6.0		
E	TMW-t	MT20	4.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMW-w	MT20	3.0	6.0		
H	TS-t	MT20	5.0	6.0		
I	TMW-t	MT20	4.0	6.0		
J	TMW-t	MT20	5.0	6.0		
K	TTWW+m	MT20	8.0	9.0	3.50	1.75
L	TMW-t	MT20	5.0	12.0		
N	BMV1+p	MT20	3.0	6.0		
O, R, T						
O	BMW-t	MT20	5.0	6.0		
P	BMW-t	MT20	5.0	8.0	2.50	3.50
Q	BS-t	MT20	5.0	6.0		
S	BMW-t	MT20	5.0	8.0		
U	BS-t	MT20	5.0	6.0		
V	BMW-t	MT20	5.0	8.0	2.50	3.75
W	BMW-t	MT20	5.0	6.0	2.50	2.00
X	BMV1+p	MT20	3.0	6.0		

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

NOTES-

- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

LOADING

TOTAL LOAD CASES: (18)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. FACTORED (LBS)	MEMB.	MAX. FACTORED (LBS)
FR-TO		FROM TO	CS1 (LC)	UNBRAC	LENGTH FR-TO
AR-AS	-1082 / 5151	-39.5	-39.5	0.26 (2)	6.25
AS-V	-1082 / 5151	-39.5	-39.5	0.26 (2)	6.25
V-AT	-2450 / 10870	-39.5	-39.5	0.51 (1)	6.25
AT-AU	-2450 / 10870	-39.5	-39.5	0.51 (1)	6.25
AU-AV	-2450 / 10870	-39.5	-39.5	0.51 (1)	6.25
AV-U	-2450 / 10870	-39.5	-39.5	0.51 (1)	6.25
U-T	-2450 / 10870	-39.5	-39.5	0.51 (1)	6.25
T-AW	-3198 / 14041	-39.5	-39.5	0.64 (1)	6.25
AW-AX	-3198 / 14041	-39.5	-39.5	0.64 (1)	6.25
AX-S	-3198 / 14041	-39.5	-39.5	0.64 (1)	6.25
S-AY	-3084 / 13632	-39.5	-39.5	0.62 (1)	6.25
AY-AZ	-3084 / 13632	-39.5	-39.5	0.62 (1)	6.25
AZ-R	-3084 / 13632	-39.5	-39.5	0.62 (1)	6.25
R-BA	-2221 / 10050	-39.5	-39.5	0.47 (1)	6.25
BA-Q	-2221 / 10050	-39.5	-39.5	0.47 (1)	6.25
Q-BB	-2221 / 10050	-39.5	-39.5	0.47 (1)	6.25
BB-BC	-2221 / 10050	-39.5	-39.5	0.47 (1)	6.25
BC-P	-2221 / 10050	-39.5	-39.5	0.47 (1)	6.25
P-BD	-722 / 3918	-39.5	-39.5	0.22 (1)	6.25
BD-BE	-722 / 3918	-39.5	-39.5	0.22 (1)	6.25
BE-BF	-722 / 3918	-39.5	-39.5	0.22 (1)	6.25
BF-D	-722 / 3918	-39.5	-39.5	0.22 (1)	6.25
D-BG	-10 / 22	-39.5	-39.5	0.07 (17)	6.25
BG-N	-10 / 22	-39.5	-39.5	0.07 (17)	6.25

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-10	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	4-0-10	-171	-171	---	FRONT	VERT	SNOW	---	C1
E	17-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
G	23-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
I	29-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
K	42-0-8	-40	-40	---	FRONT	VERT	DEAD	---	C1
K	42-0-8	-171	-171	---	FRONT	VERT	SNOW	---	C1
R	29-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
S	29-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
T	17-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
Y	5-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
Z	7-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AA	9-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AB	11-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AC	13-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AD	15-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AE	19-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AF	21-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AG	25-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AH	27-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AI	31-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AJ	33-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AK	35-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AL	37-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AM	39-0-12	-60	-60	---	FRONT	VERT	TOTAL	---	C1
AN	41-0-12	-61	-61	---	FRONT	VERT	TOTAL	---	C1
AO	1-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AP	3-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AQ	5-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AR	7-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AS	9-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AT	11-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AU	13-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AV	15-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AW	19-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AX	21-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AY	25-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AZ	27-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
BA	31-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
BB	33-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
BC	35-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
BD	37-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
BE	39-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
BF	41-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
BG	43-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2 (8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pg} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123954

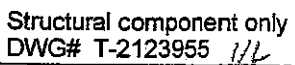
Scale = 1:74.4



THIS TRUSS IS DESIGNED FOR COMMERCIAL

BR-TO	(LBS)	(PLF)	CSI (LC)	UNBRAC	(LBS)	CSI (LC)
FROM	TO			LENGTH	TO	

DWG# 1-2123955 1/4



A horizontal timeline bar with arrows at both ends, spanning from 2010 to 2014. The years 2010, 2011, 2012, 2013, and 2014 are marked along the bar.

CONTINUED ON PAGE 2

JOB NAME 418361	TRUSS NAME T2	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:13 2021 Page 2
ID:Nx0GIYRcZVpB E9rQcwHDzcyp-sd0Xw?leF4E0Jmnlc5NIEbGI2I75nU68JoJu??wGP

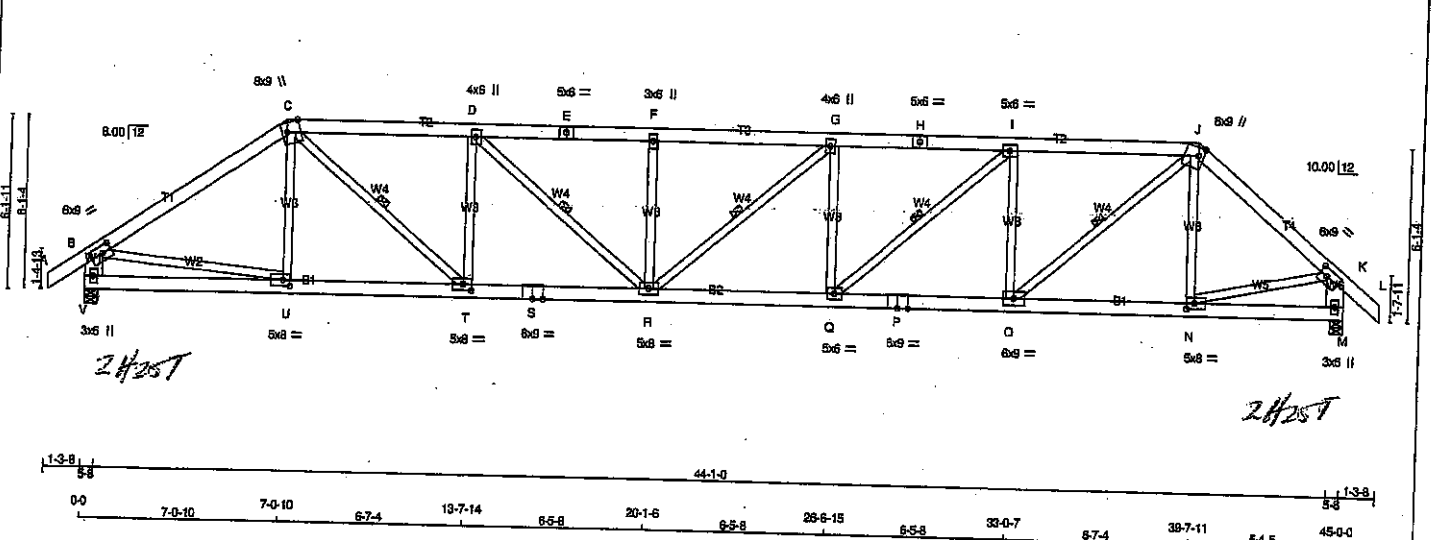
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123955 2/11

JOB NAME 418361	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. File Jul 23 07:27:14 2021 Page 1
 ID: Nw0GIYRcZlvpB_E9rQcwHDzcytp-K?av7LmG0NMxwLxAlouxmmpzHODWw1IXS3RXRyvGPh
 Scale = 1/74.4



L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
- C	2x6	DRY	No.2
- E	2x6	DRY	No.2
- H	2x6	DRY	No.2
- J	2x6	DRY	No.2
- L	2x6	DRY	No.2
- B	2x8	DRY	No.2
- K	2x8	DRY	No.2
- S	2x6	DRY	No.2
- P	2x6	DRY	No.2
- M	2x6	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table in inches)					
TYPE	PLATES	W	LEN	Y	X
TMVW-t	MT20	6.0	9.0	3.00	3.75
TTWW-t	MT20	8.0	9.0	Edge	5.75
TMVW-t	MT20	4.0	8.0		
TS-t	MT20	5.0	6.0		
TMVW-t	MT20	3.0	6.0		
TS-t	MT20	5.0	6.0		
TTWW-t	MT20	5.0	6.0		
TMVW-t	MT20	8.0	9.0	3.50	2.25
BMV1-p	MT20	6.0	9.0	3.00	3.25
BMVW-t	MT20	3.0	6.0		
BMVW-t	MT20	5.0	8.0	2.50	3.25
BS-t	MT20	6.0	9.0		
BMVW-t	MT20	5.0	6.0		
BMVW-t	MT20	5.0	8.0		
BS-t	MT20	6.0	9.0		
BMVW-t	MT20	5.0	8.0	2.50	3.50
BMVW-t	MT20	5.0	8.0	2.50	3.00
BMV1-p	MT20	3.0	6.0		

- INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

Structural component only
DWG# T-2123956

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER											
BEARINGS											
		FACTORED		MAXIMUM FACTORED		INPUT		REQD			
		GROSS REACTION		GROSS REACTION		BRG		BRG			
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			
V		3645	0	3694	284	-1185	5-8	5-8			
M		3648	0	3648	0	-1179	5-8	5-8			
PROVIDE ANCHORAGE AT BEARING JOINT V FOR 1185 LBS. FACTORED UPLIFT											
PROVIDE ANCHORAGE AT BEARING JOINT M FOR 1179 LBS. FACTORED UPLIFT											
PROVIDE FOR 284 LBS. FACTORED HORIZONTAL REACTION AT JOINT V											
UNFACTORED REACTIONS											
		1ST LOASE		MAX/MIN COMPONENT REACTIONS							
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL			
V		2581	1831 / 0	473 / 0	0 / 0	0 / -1145	620 / 0	0 / 0			
M		2693	1800 / 0	473 / 0	0 / 0	75 / -1141	620 / 0	0 / 0			
HORIZONTAL REACTIONS											
V		0 / 0	0 / 0	0 / 0	203 / -202	0 / 0	0 / 0	0 / 0			
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) V, M											
BRACING											
MAX. UNBRACED TOP CHORD LENGTH = 2.88 FT.											
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.63 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 J-O, C-T, I-Q, D-R, G-R.											
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: (18)											
		CHORDS		FACTORED		WEB S		MAX. FACTORED			
MEMB.		FORCE (LBS)	VERT. LOAD (PL)	MAX. FACTORED VERT. LOAD (LC)	MAX. UNBRACED LENGTH (L)	MEMB.	FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. UNBRACED LENGTH (L)		
FR-TO			FROM	TO	LENGTH	FR-TO					
A-B	0 / 49	-115.2	-115.2	0.09 (2)	10.00	U-C	-253 / 213	0.09 (8)			
B-C	-4480 / 1484	-115.2	-115.2	0.76 (2)	9.36	N-J	-379 / 215	0.13 (8)			
C-D	-5960 / 2115	-115.2	-115.2	0.58 (1)	3.18	B-U	-1004 / 3750	0.61 (14)			
D-E	-6928 / 2404	-115.2	-115.2	0.68 (1)	2.88	N-K	-805 / 3027	0.49 (1)			
E-F	-6928 / 2404	-115.2	-115.2	0.88 (1)	2.88	D-J	-1150 / 3410	0.55 (2)			
F-G	-6928 / 2404	-115.2	-115.2	0.57 (1)	3.00	C-T	-1098 / 3031	0.49 (3)			
G-H	-6782 / 2345	-115.2	-115.2	0.86 (1)	2.92	O-I	-1862 / 806	0.71 (2)			
H-I	-6782 / 2345	-115.2	-115.2	0.96 (1)	2.92	T-D	-1728 / 747	0.63 (3)			
I-J	-5512 / 1960	-115.2	-115.2	0.56 (1)	3.33	Q-I	-573 / 1743	0.22 (3)			
J-K	-3874 / 1284	-115.2	-115.2	0.39 (1)	4.04	D-R	-478 / 1369	0.28 (2)			
K-L	0 / 53	-115.2	-115.2	0.09 (1)	10.00	Q-G	-891 / 434	0.32 (3)			
V-B	-3576 / 1210	0.0	0.0	0.18 (2)	6.33	R-F	-721 / 373	0.26 (2)			
M-K	-3565 / 1199	0.0	0.0	0.18 (1)	6.35	R-G	-88 / 251	0.04 (2)			
V-U	-287 / 275	-39.5	-39.5	0.17 (17)	6.25						
U-T	-1107 / 3718	-39.5	-39.5	0.56 (1)	6.25						
T-S	-1847 / 5961	-39.5	-39.5	0.79 (1)	5.88						
S-R	-1847 / 5961	-39.5	-39.5	0.79 (1)	5.88						
R-Q	-2070 / 6782	-39.5	-39.5	0.89 (1)	5.63						
Q-P	-1638 / 5513	-39.5	-39.5	0.73 (1)	6.15						
P-O	-1638 / 5513	-39.5	-39.5	0.73 (1)	6.15						
O-N	-762 / 2958	-39.5	-39.5	0.44 (1)	6.25						
N-M	-10 / 22	-39.5	-39.5	0.13 (17)	6.25						

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBC 4.1.6.2.10

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	33.4	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	57.3	PSF	

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF CBC 2015, ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 986-14
- TPC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.50")
CALCULATED VERT. DEFL. (LL) = L/999 (0.35")
ALLOWABLE DEFL. (TL) = L/180 (3.00")
CALCULATED VERT. DEFL. (TL) = L/999 (0.48")

CSI: TC=0.78/1.00 (B-C2), BC=0.88/1.00 (C-R:1), WS=0.71/1.00 (I-O2), SS=0.27/1.00 (H:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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
MT20	650	371	1747
	788	1967	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (U) (INPUT = 0.90)
JSI METAL = 0.92 (S) (INPUT = 1.00)



Structural component only
 DWG# T-2123956

JOB NAME 418361	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	
Version 8.420 S Jan 21 2021 M-Tek Industries, Inc. Fri Jul 23 07:27:14 2021 Page 2 ID:Nx0GIYRcZlvpB E9rQcwHDzcypd-K7av7LmG0NMbkwLxAgouxmpozeHQDWw1IXS3RXRyvGPh					

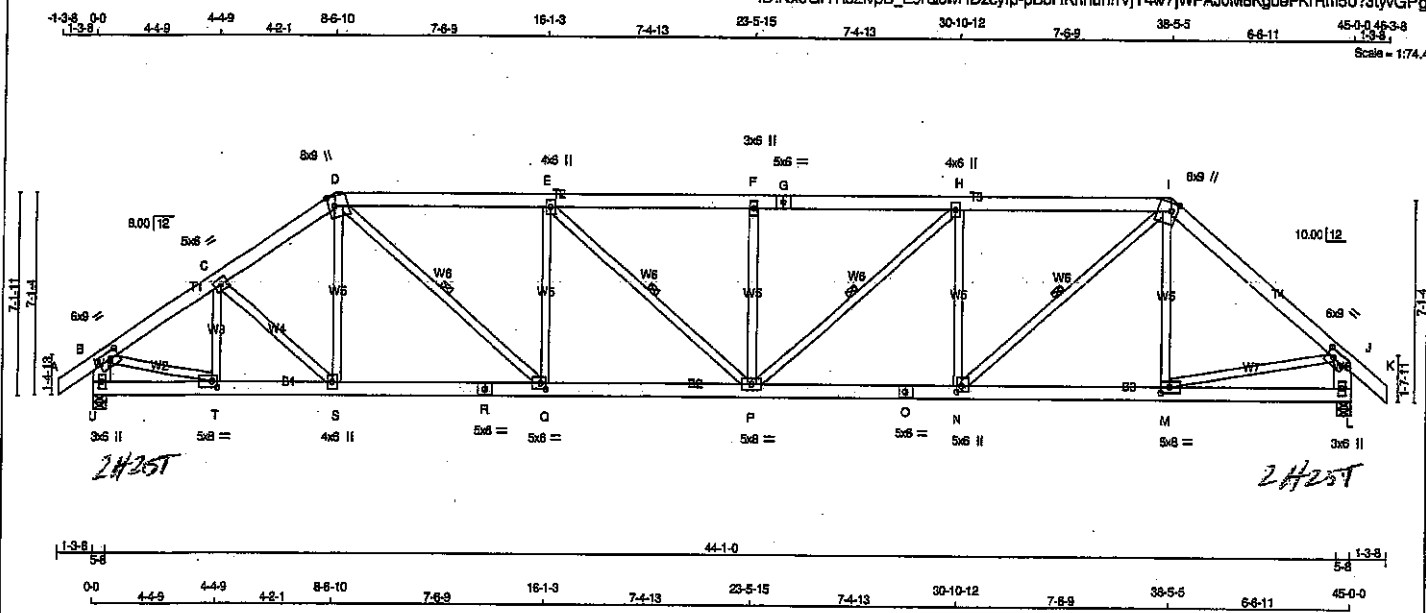
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM); INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123956 *2/12*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
418361	T4	4	1	GREENPARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:15 2021 Page 1
ID: NxDGfYRcZlvpB_E9rQcwHDzcypr-pB8HKhrunhVY4w7WPAJOM8KgoeFkrRm5o?3tyvGPG



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x8	DRY	No.2
D - G	2x8	DRY	No.2
G - I	2x8	DRY	No.2
I - K	2x8	DRY	No.2
U - B	2x8	DRY	No.2
L - J	2x8	DRY	No.2
U - R	2x8	DRY	No.2
R - O	2x8	DRY	No.2
O - L	2x8	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
B	TMWW-1	MT20	6.0	9.0	3.00 3.75
C	TMWW-4	MT20	5.0	6.0	
D	TTWW+m	MT20	8.0	9.0	Edges 2.50
E	TMWW+t	MT20	4.0	6.0	
F	TMWW-w	MT20	3.0	6.0	
G	TS-t	MT20	5.0	6.0	
H	TMWW+t	MT20	4.0	6.0	
I	TTWW+m	MT20	8.0	9.0	3.50 2.50
J	TMWW-t	MT20	6.0	9.0	3.00 3.25
L	BMV1-p	MT20	3.0	6.0	
M	BMWW-1	MT20	5.0	8.0	2.50 3.50
N	BMWW-h	MT20	5.0	6.0	2.50 2.00
O	BS-t	MT20	5.0	6.0	
P	BMWW-t	MT20	5.0	6.0	
Q	BMWW-t	MT20	6.0	6.0	2.50 2.25
R	BS-t	MT20	5.0	6.0	
S	BMWW-t	MT20	4.0	6.0	
T	BMWW-t	MT20	5.0	8.0	2.50 2.25
U	BMV1-p	MT20	3.0	6.0	

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

NOTES: (1)
1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	BRG	IN-SX	BRG	IN-SX
U	3645	0	3990	324	-1177	5-8	5-8		
L	3648	0	3648	0	-1169	5-8	5-8		

PROVIDE ANCHORAGE AT BEARING JOINT U FOR 1177 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1169 LBS FACTORED UPLIFT

PROVIDE FOR 324 LBS FACTORED HORIZONTAL REACTION AT JOINT U

UNFACTORED REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
U	2891	1628 / 0	473 / 0	0 / 0	0 / -1139	620 / 0
L	2893	1600 / 0	473 / 0	0 / 0	102 / -1133	620 / 0

HORIZONTAL REACTIONS						
U	0 / 0	0 / 0	0 / 0	231 / -231	0 / 0	0 / 0

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 2.98 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.09 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 U-N, D-Q, H-P, E-P.

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

LOADING
TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 48	-115.2	-115.2	0.09 (2)	10.00	T-C	-838 / 275
B-C	-4384 / 1448	-115.2	-115.2	0.25 (13)	3.98	C-S	-203 / 360
C-D	-4437 / 1579	-115.2	-115.2	0.26 (13)	3.98	S-D	-74 / 347
D-E	-5534 / 1988	-115.2	-115.2	0.72 (1)	3.12	M-I	-272 / 201
E-F	-5980 / 2093	-115.2	-115.2	0.78 (1)	2.98	B-T	-1077 / 3727
F-G	-5980 / 2093	-115.2	-115.2	0.78 (1)	2.98	M-J	-772 / 3028
G-H	-5980 / 2093	-115.2	-115.2	0.78 (1)	2.98	N-I	-1030 / 3020
H-I	-5190 / 1866	-115.2	-115.2	0.89 (1)	3.25	D-Q	-930 / 2807
I-J	-3898 / 1272	-115.2	-115.2	0.59 (1)	3.82	N-H	-1704 / 745
J-K	0 / 53	-115.2	-115.2	0.09 (1)	10.00	Q-E	-1427 / 885
U-B	-3592 / 1185	0.0	0.0	0.18 (2)	6.32	P-H	-398 / 1119
L-J	-3544 / 1192	0.0	0.0	0.18 (1)	6.36	E-P	-270 / 684
						P-F	-787 / 406
U-T	-306 / 315	-39.5	-39.5	0.09 (5)	6.25		
T-S	-1207 / 3951	-39.5	-39.5	0.54 (2)	6.25		
S-R	-1080 / 3609	-39.5	-39.5	0.54 (1)	6.25		
R-Q	-1080 / 3609	-39.5	-39.5	0.54 (1)	6.25		
Q-P	-1678 / 5534	-39.5	-39.5	0.75 (1)	6.09		
P-O	-1510 / 5180	-39.5	-39.5	0.71 (1)	6.25		
O-N	-1510 / 5180	-39.5	-39.5	0.71 (1)	6.25		
N-M	-735 / 2983	-39.5	-39.5	0.48 (1)	6.25		
M-L	-10 / 22	-39.5	-39.5	0.18 (17)	6.25		

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (8)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF BOBC 2016, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFLECT (LL) = L/900 (1.50")
CALCULATED VERT. DEFLECT (LL) = L/999 (0.27")
ALLOWABLE DEFLECT (TL) = L/180 (3.00")
CALCULATED VERT. DEFLECT (TL) = L/999 (0.38")

CSI: TC = 0.78/1.00 (F-H-1), BC = 0.75/1.00 (P-Q-1), WS = 0.93/1.00 (H-N-2), SS = 0.31/1.00 (H-3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

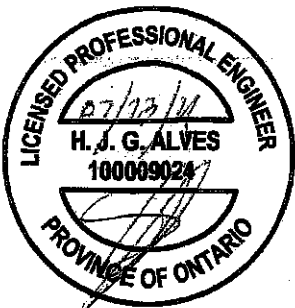
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

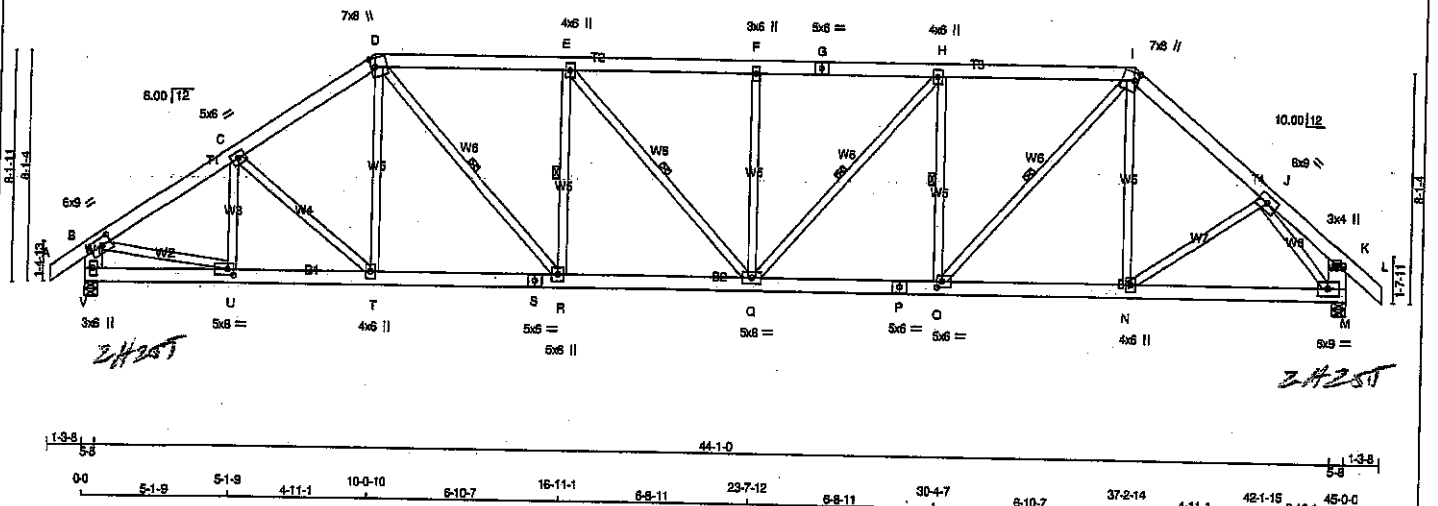
JOB NAME 418361	TRUSS NAME T4	QUANTITY 4	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 07:27:15 2021 Page 2	
ID:Nx0GIYRcZlvpB E8rQcwHDzcvr-pB8HKhunrhVY4w7WPAJOM8KqoeFKRmSo?3tywGPg					
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_q$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.					
 Structural component only DWG# T-2123957 <i>ML</i>					

JOB NAME 418361	TRUSS NAME T5	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
---------------------------	-------------------------	----------------------	-----------------	-------------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:16 2021 Page 1
ID:Nx0GIYRcZivpB_E9rQcWHDzcyyp-HOIfY1nWY?daAEVKHDwPrEum_49G_nYa?IYKvYvGP

1-3-8 0-0 5-1-9 5-1-9 4-11-1 10-0-10 6-10-7 16-11-1 6-8-11 23-7-12 6-8-11 30-4-7 6-10-7 37-2-14 4-11-1 42-1-15 2-10-1 45-0-0 48-3-8 1-3-8
Scale = 1:74.4



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6 DRY	No.2	SPF
D - G	2x6 DRY	No.2	SPF
G - I	2x6 DRY	No.2	SPF
I - L	2x6 DRY	No.2	SPF
V - B	2x6 DRY	No.2	SPF
M - K	2x6 DRY	No.2	SPF
V - S	2x6 DRY	No.2	SPF
S - P	2x6 DRY	No.2	SPF
P - M	2x6 DRY	No.2	SPF

ALL WEBS 2x4 DRY No.2 SPF
EXCEPT

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWW-t	MT20	6.0	9.0	3.00	3.75
C TMWW-t	MT20	5.0	6.0		
D TTWW-t	MT20	7.0	8.0	3.75	1.75
E TMWW-t	MT20	4.0	6.0		
F TMWW-t	MT20	3.0	6.0		
G TS-t	MT20	5.0	6.0		
H TMWW-t	MT20	4.0	6.0		
I TTWW-t	MT20	7.0	8.0	3.25	1.75
J TMWW-t	MT20	6.0	9.0		
K TMW-p	MT20	3.0	4.0		
M BMWW-t	MT20	6.0	9.0		
N BMWW-t	MT20	4.0	6.0		
O BMWW-t	MT20	5.0	8.0	2.50	2.00
P BS-t	MT20	5.0	6.0		
Q BMWW-t	MT20	5.0	8.0		
R BMWW-t	MT20	5.0	6.0		
S BS-t	MT20	5.0	6.0		
T BMWW-t	MT20	4.0	6.0		
U BMWW-t	MT20	5.0	8.0	2.50	2.50
V BMV-t	MT20	3.0	6.0		

NOTES (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT GROSS REACTION		GROSS REACTION	BRG	BRG
V	3648 0	3683 364	-1188 5-8	IN-SX
M	3648 0	3648 0	-1156 5-8	5-8

PROVIDE ANCHORAGE AT BEARING JOINT V FOR 1168 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT M FOR 1156 LBS FACTORED UPLIFT

PROVIDE FOR 364 LBS FACTORED HORIZONTAL REACTION AT JOINT V

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
V	2691 1824 / 0 473 / 0 0 / 0 0 / -1133 620 / 0 0 / 0
M	2693 1800 / 0 473 / 0 0 / 0 129 / -1125 620 / 0 0 / 0

HORIZONTAL REACTIONS

V	0 / 0 0 / 0 0 / 0 260 / -259 0 / 0 0 / 0
---	--

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 3.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH FR-TO	MAX. FORCE (LBS)
FR-TO				
A-B	0 / 49	-115.2 -115.2 0.09 (2)	10.00	U-C -501 / 250
B-C	-4451 / 1467	-115.2 -115.2 0.32 (2)	3.87	C-T -272 / 269
C-D	-4342 / 1558	-115.2 -115.2 0.31 (2)	3.94	T-D -133 / 443
D-E	-4894 / 1786	-115.2 -115.2 0.56 (1)	3.49	N-I -99 / 305
E-F	-5165 / 1849	-115.2 -115.2 0.57 (1)	3.38	N-J -118 / 636
F-G	-5165 / 1849	-115.2 -115.2 0.57 (1)	3.38	B-U -1074 / 3788
G-H	-5165 / 1849	-115.2 -115.2 0.57 (1)	3.38	O-I -869 / 2508
H-I	-4579 / 1683	-115.2 -115.2 0.53 (1)	3.61	D-R -772 / 2108
I-J	-3898 / 1373	-115.2 -115.2 0.29 (1)	4.14	O-H -1614 / 899
J-K	-33 / 167	-115.2 -115.2 0.14 (14)	6.25	R-E -1297 / 637
K-L	0 / 53	-115.2 -115.2 0.09 (1)	10.00	Q-H -324 / 592
V-B	-3581 / 1180	0.0 0.0 0.18 (2)	6.33	E-Q -236 / 561
M-K	-294 / 209	0.0 0.0 0.02 (14)	7.81	Q-F -714 / 369
				J-M -4186 / 1257
V-U	-346 / 354	-39.5 -39.5 0.10 (5)	6.25	
U-T	-1237 / 3731	-39.5 -39.5 0.53 (1)	6.25	
T-S	-1034 / 3587	-39.5 -39.5 0.52 (1)	6.25	
S-R	-1034 / 3587	-39.5 -39.5 0.52 (1)	6.25	
R-Q	-1444 / 4894	-39.5 -39.5 0.86 (1)	6.25	
Q-P	-1262 / 4573	-39.5 -39.5 0.62 (1)	6.25	
P-O	-1262 / 4573	-39.5 -39.5 0.62 (1)	6.25	
O-N	-700 / 2369	-39.5 -39.5 0.50 (1)	6.25	
N-M	-771 / 2840	-39.5 -39.5 0.48 (1)	6.25	

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2(B)

TOTAL WEIGHT = 293 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 33.4 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 57.3 PSF

SPACING = 24.0 IN C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF NBCC 2015, ABC 2015
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TRC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.50")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.22")
ALLOWABLE DEFL.(TL) = $L/180$ (3.00")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.31")

CSI: TC=0.57/1.00 (F-H:1), BC=0.66/1.00 (Q-R:1),
WB=0.84/1.00 (J-M:1), SS=0.29/1.00 (H-I:3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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

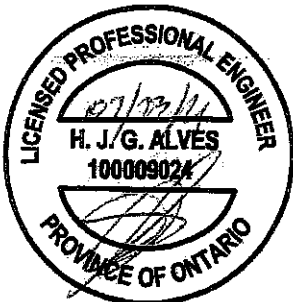
PLATE GRIP(DRY)	SHEAR	SECTION
(FS)	(PL)	(PL)
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.90 (D) (INPUT=0.90)
JSI METAL=0.81 (P) (INPUT=1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2123958

JOB NAME 418361	TRUSS NAME T5	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 8 Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:16 2021 Page 2	
ID:Nx0GIYRcZlvpB E9rQcwHDZcyrc-HOIfY1nWY?daAEVKHDwPrEuM 49G nYa?IYYcKvGp					
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe}, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.					
Structural component only DWG# T-2123958 <i>JA</i>					

JOB NAME 418361	TRUSS NAME T6	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 M Tek Industries, Inc. Fri Jul 23 07:27:17 2021 Page 2
ID:Nx0GIYRcZvpB E9rQowHDzzyrp-laF2INo9JIIReO4WrxReORRUUUgijJkDPH58myvGPe

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_p , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123959 *212*

JOB NAME TRUSS NAME **2** **1** **GREENPARK HOMES** **DWG NO.**

418361 **T7** **2** **1** **TRUSS DESC.**

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:18 2021 Page 1
ID:NxOGIYRcZlpB_EBrQwHDzyp-DmpOzpn4ctfPYHfeybdzh9urvSVtS31gCvVGPd

-1-3-8 0-0 6-7-9 6-7-9 6-5-1 13-0-10 7-3-9 20-4-3 7-2-5 27-6-8 7-3-9 34-10-2 4-11-11 39-9-13 5-2-3 45-0-0 45-3-8
Scale = 1/7.5

LUMBER
N.L.G.A. RULES
CHORDS SIZE LUMBER DESCR.
A - D 2x6 DRY No.2 SPF
D - E 2x6 DRY No.2 SPF
E - G 2x6 DRY No.2 SPF
G - I 2x6 DRY No.2 SPF
I - L 2x6 DRY No.2 SPF
L - N 2x6 DRY No.2 SPF
N - P 2x6 DRY No.2 SPF
P - M 2x6 DRY No.2 SPF
ALL WEBS 2x4 DRY No.2 SPF
EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
B TMW-t MT20 6.0 9.0 2.75 3.75
C TMW-w MT20 5.0 6.0
D TS-t MT20 5.0 6.0
E TTWW+m MT20 6.0 9.0 4.25 1.50
F TMW-w MT20 4.0 6.0
G TS-t MT20 5.0 6.0
H TMW+w MT20 3.0 6.0
I TTWW+m MT20 6.0 9.0 3.75 1.50
J TMW-w MT20 5.0 6.0 2.50 2.75
K TMW-t MT20 6.0 9.0 3.00 3.25
M BMV1+p MT20 3.0 6.0
N BMW-w MT20 5.0 6.0 2.50 3.00
O R-T
O BMW-w MT20 4.0 6.0
P BS-t MT20 5.0 6.0
Q BMW-W-t MT20 6.0 9.0
U BS-t MT20 5.0 6.0
S BMW-w MT20 5.0 6.0 2.50 2.75
V BMV1+p MT20 3.0 6.0

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

Structural component only
DWG# T-2123960

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED MAXIMUM FACTORED INPUT RECORD
GROSS REACTION GROSS REACTION BRG BRG
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
V 3845 0 3858 443 -1148 5-8 5-8
M 3848 0 3848 0 -1126 5-8 5-8
PROVIDE ANCHORAGE AT BEARING JOINT V FOR 1148 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT M FOR 1126 LBS FACTORED UPLIFT
PROVIDE FOR 443 LBS FACTORED HORIZONTAL REACTION AT JOINT V
UNFACTORED REACTIONS
1ST LCASE MAX/MIN COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
V 2691 1807 / 0 473 / 0 0 / 0 64 / -1117 620 / 0 0 / 0
M 2693 1800 / 0 473 / 0 0 / 0 177 / -1103 620 / 0 0 / 0
HORIZONTAL REACTIONS
V - 0 / 0 0 / 0 0 / 0 316 / -316 0 / 0 0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) V, M
BRACING
MAX. UNBRACED TOP CHORD LENGTH = 3.57 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-T, E-T, F-R, F-Q, H-Q, I-Q, I-O.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW
LOADING
TOTAL LOAD CASES: (18)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)		MAX. CS1 (LC)	UNBRACED LENGTH	FR-TO	WEBS MAX. FACTORED FORCE (LBS)		MAX CS1 (LC)
		FROM	TO				MEMB.	FORCE	
A-B	0 / 49	-115.2	-115.2	0.09 (2)	10.00	U-C	-398 / 216	0.10 (8)	
B-C	-4545 / 1455	-115.2	-115.2	0.80 (2)	3.57	G-T	-665 / 451	0.22 (2)	
C-D	-4094 / 1493	-115.2	-115.2	0.55 (2)	3.80	E-R	-231 / 701	0.11 (2)	
D-E	-4084 / 1493	-115.2	-115.2	0.55 (2)	3.80	F-Q	-587 / 1444	0.46 (11)	
E-F	-4089 / 1556	-115.2	-115.2	0.54 (1)	3.77	R-F	-897 / 539	0.40 (3)	
F-G	-3929 / 1484	-115.2	-115.2	0.53 (1)	3.85	F-Q	-452 / 167	0.36 (2)	
G-H	-3929 / 1484	-115.2	-115.2	0.53 (1)	3.85	Q-H	-893 / 467	0.41 (3)	
H-I	-3929 / 1483	-115.2	-115.2	0.52 (1)	3.87	Q-I	-861 / 1925	0.52 (13)	
I-J	-3777 / 1397	-115.2	-115.2	0.32 (14)	4.18	O-J	-212 / 482	0.09 (14)	
J-K	-3869 / 1246	-115.2	-115.2	0.32 (14)	4.18	Q-I	-272 / 353	0.20 (8)	
K-L	0 / 53	-115.2	-115.2	0.09 (1)	10.00	N-J	-488 / 223	0.16 (8)	
V-B	-3540 / 1185	0.0	0.0	0.17 (2)	6.35	B-U	-1041 / 3855	0.62 (1)	
M-K	-3550 / 1140	0.0	0.0	0.18 (1)	6.38	N-K	-771 / 3070	0.49 (1)	
V-U	-425 / 434	-39.5	-39.5	0.14 (4)	8.25				
U-T	-1262 / 3820	-39.5	-39.5	0.58 (1)	8.25				
T-S	-915 / 3372	-39.5	-39.5	0.50 (1)	8.25				
S-R	-915 / 3372	-39.5	-39.5	0.50 (1)	8.25				
R-Q	-1122 / 4099	-39.5	-39.5	0.58 (1)	8.25				
Q-P	-622 / 2867	-39.5	-39.5	0.44 (1)	8.25				
P-O	-622 / 2867	-39.5	-39.5	0.44 (1)	8.25				
O-N	-732 / 3002	-39.5	-39.5	0.45 (1)	8.25				
N-M	-10 / 22	-39.5	-39.5	0.09 (4)	8.25				

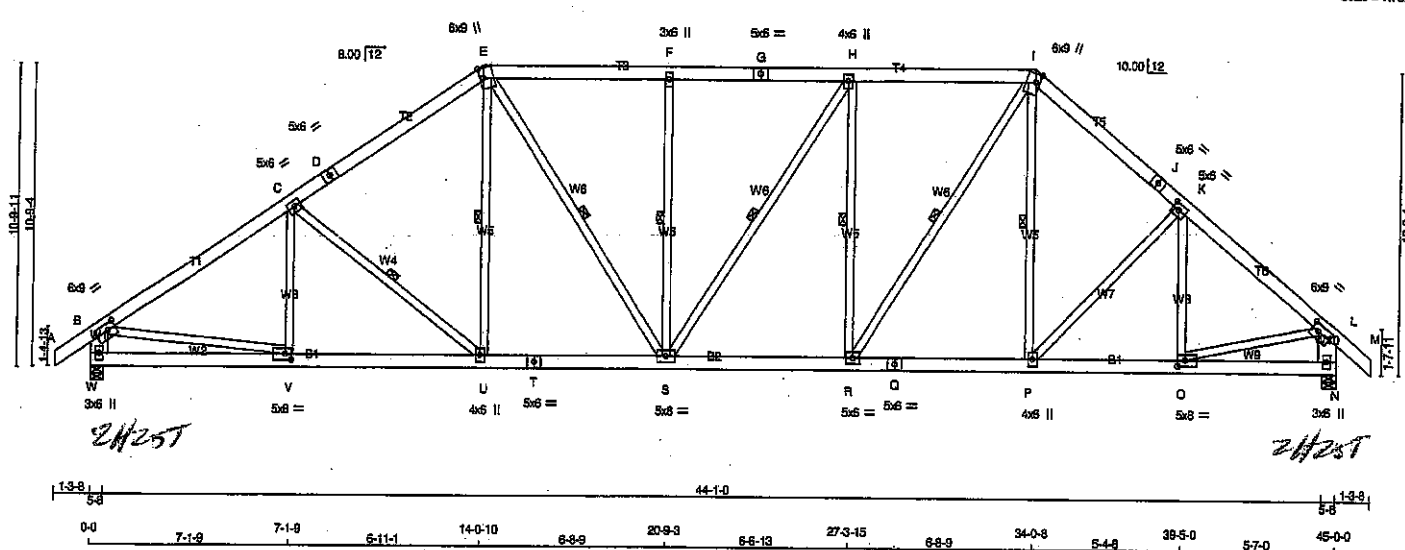
TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2.(8)

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF
SPACING = 24.0 IN/C
LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12

JOB NAME 418361	TRUSS NAME T7	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 M&Tek Industries, Inc. Fri Jul 23 07:27:18 2021 Page 2 ID:Nx0GIYRcZlvpB E9rQowHDzcyp-DmpQzpn4clPYfPeYbztzh9urvSIVIS31fCvwGPd	
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe}, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.					
Structural component only DWG# T-2123960 <i>4/11</i>					

JOB NAME 418361	TRUSS NAME T8	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:19 2021 Page 1
 ID: N0GIYRcZlpB_E9rQowHDzoyr-hzNoA2qPrw791hEvYMT6T5W/DICYBBA1hjmCC0yvgPc
 Scale = 1/75.4



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x6	DRY	No.2
D - E	2x6	DRY	No.2
E - G	2x6	DRY	No.2
G - I	2x6	DRY	No.2
I - J	2x6	DRY	No.2
J - M	2x6	DRY	No.2
W - B	2x6	DRY	No.2
N - L	2x6	DRY	No.2
W - T	2x6	DRY	No.2
T - Q	2x6	DRY	No.2
Q - N	2x6	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMW-1	MT20	6.0	9.0 2.75 3.75
C	TMW-1	MT20	5.0	6.0
D, G, J				
D	TS-1	MT20	5.0	6.0
E	TTWW+m	MT20	6.0	9.0 4.25 1.50
F	TMW-w	MT20	3.0	6.0
H	TMW-1	MT20	4.0	6.0
I	TTWW+m	MT20	6.0	9.0 3.75 1.75
K	TMW-1	MT20	5.0	6.0 2.50 2.75
L	TMW-1	MT20	6.0	9.0 3.00 3.25
N	BMV1+p	MT20	3.0	6.0
O	BMW-1	MT20	5.0	8.0 2.50 3.25
P	BMW-1	MT20	4.0	6.0
Q	BS-1	MT20	5.0	6.0
R	BMW-1	MT20	5.0	6.0
S	BMW-1	MT20	5.0	8.0
T	BS-1	MT20	5.0	6.0
U	BMW-1	MT20	4.0	6.0
V	BMW-1	MT20	5.0	8.0 2.50 2.75
W	BMV1+p	MT20	3.0	6.0

NOTES - (1)
 1) Lateral braces to be a minimum of 2x4 SPF #2.



Structural component only
 DWG# T-2123961

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

BEARINGS					
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
W	3645	0	3648	469	-1137
N	3648	0	3648	0	-1114

PROVIDE ANCHORAGE AT BEARING JOINT W FOR 1137 LBS. FACTORED UPLIFT
 PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1114 LBS. FACTORED UPLIFT
 PROVIDE FOR 469 LBS. FACTORED HORIZONTAL REACTION AT JOINT W

UNFACTORED REACTIONS						
1ST LCASE	MAX. MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
W	2691	1598 / 0	473 / 0	0 / 0	97 / -1110	620 / 0
N	2693	1600 / 0	473 / 0	0 / 0	192 / -1094	620 / 0

HORIZONTAL REACTIONS						
W	-	0 / 0	0 / 0	0 / 0	335 / -335	0 / 0

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

BRACING
 MAX. UNBRACED TOP CHORD LENGTH = 3.45 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-U, E-U, I-P, H-R, E-S, H-R, F-S, H-S.

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: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO				FR-TO			
A-B	0 / 49	-115.2 -115.2	0.09 (2)	10.00	V-C	-293 / 210	0.11 (8)
B-C	-4556 / 1455	-115.2 -115.2	0.70 (2)	3.45	C-U	-794 / 507	0.31 (2)
C-D	-3998 / 1453	-115.2 -115.2	0.64 (2)	3.74	U-E	-266 / 778	0.14 (13)
D-E	-3998 / 1453	-115.2 -115.2	0.64 (2)	3.74	P-I	-244 / 509	0.13 (14)
E-F	-3830 / 1479	-115.2 -115.2	0.43 (1)	4.02	P-K	-365 / 404	0.32 (8)
F-G	-3830 / 1480	-115.2 -115.2	0.44 (1)	4.00	O-K	-437 / 212	0.17 (8)
G-H	-3830 / 1480	-115.2 -115.2	0.44 (1)	4.00	B-V	-1022 / 3863	0.62 (1)
H-I	-3683 / 1413	-115.2 -115.2	0.43 (1)	4.07	O-L	-755 / 3088	0.50 (1)
I-J	-3722 / 1379	-115.2 -115.2	0.37 (14)	4.14	R-I	-609 / 1760	0.50 (13)
J-K	-3722 / 1379	-115.2 -115.2	0.37 (14)	4.14	E-S	-532 / 1258	0.44 (11)
K-L	-3899 / 1239	-115.2 -115.2	0.37 (1)	4.06	R-H	-1210 / 570	0.88 (2)
L-M	0 / 53	-115.2 -115.2	0.09 (1)	10.00	S-F	-820 / 428	0.44 (3)
W-B	-3623 / 1158	0.0	0.0	0.17 (2)	S-H	-167 / 460	0.14 (13)
N-L	-3547 / 1130	0.0	0.0	0.18 (1)			
W-V	-451 / 480	-39.5 -39.5	0.18 (17)	6.25			
V-U	-1263 / 3832	-39.5 -39.5	0.56 (1)	6.25			
U-T	-571 / 3298	-39.5 -39.5	0.49 (1)	6.25			
T-S	-571 / 3298	-39.5 -39.5	0.49 (1)	6.25			
S-R	-624 / 3683	-39.5 -39.5	0.52 (1)	6.25			
R-Q	-591 / 2823	-39.5 -39.5	0.42 (1)	6.25			
Q-P	-591 / 2823	-39.5 -39.5	0.42 (1)	6.25			
P-O	-719 / 3029	-39.5 -39.5	0.44 (1)	6.25			
O-N	-10 / 22	-39.5 -39.5	0.10 (4)	6.25			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (b)

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 33.4 PSF
 DL = 6.0 PSF
 BOT CH. LL = 10.5 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
 - PART 4 OF BCBC 2018, ABC 2019
 - PART 4 OF CBC 2012 (2019 AMENDMENT)
 - CSA 086-14
 - TPIC 2014

DESIGN ASSUMPTIONS
 - SLOPE REDUCTION FACTOR USED
 - PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.50")
 CALCULATED VERT. DEFL. (LL) = L/999 (0.16")
 ALLOWABLE DEFL. (TL) = L/180 (3.00")
 CALCULATED VERT. DEFL. (TL) = L/999 (0.22")

CSI: TC=0.70/1.00 (B-C-2), BC=0.58/1.00 (U-V-1), WB=0.68/1.00 (H-R-2), SS=0.28/1.00 (H-13)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
 WIND LOAD IMPORTANCE FACTOR = 1.00
 LIVE LOAD IMPORTANCE FACTOR = 1.00
 COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES			
PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	850	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.89 (O) (INPUT = 0.90)
 JSI METAL=0.77 (E) (INPUT = 1.00)

JOB NAME 418361	TRUSS NAME T8	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri Jul 23 07:27:19 2021 Page 2 ID:Nx0GIYRcZlvpB E9rQcwHDzcymp-hzNoA2gPw?91hEvvMT8TsWrDICYBBA1himCCfvvGPc	
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.					
					
Structural component only DWG# T-2123961 <i>zm</i>					

JOB NAME 418361	TRUSS NAME T9	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MText Industries, Inc. Fri Jul 23 07:35:44 2021 Page 2
ID:1x0GIYRcZlpB E9rQcwHDzcymp-P6OI9kxAv4dV7ILy2v1XRMxFxsBE0fEMpobRRtvtvGHj

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B						
C	TMWW-t	MT20	5.0	6.0		
D	TS-t	MT20	5.0	6.0		
E	TTWW-m	MT20	6.0	10.0		
F	TMW-w	MT20	3.0	6.0		
G	TS-t	MT20	5.0	6.0		
H	TTWW-m	MT20	6.0	10.0		
I	TTWW+m	MT20	7.0	8.0	4.00	3.25
J	TTWW+m	MT20	6.0	9.0	4.00	1.25
K	TMWW-t	MT20	5.0	6.0	2.50	2.75
L	TMWW+p	MT20	6.0	9.0		
N	BMV1-t	MT20	6.0	10.0	Edge	0.50
O	BMWW-t	MT20	6.0	9.0	5.50	3.00
P, Q, R, V, W						
P	BMWW-t	MT20	5.0	6.0		
S	BS-t	MT20	6.0	9.0		
T	BMWW-t	MT20	6.0	9.0		
U	BS-t	MT20	6.0	9.0		
X						
X	TMBMVW1+pMT20		6.0	16.0	11.50	3.00

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

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

CONNECTION REQUIREMENTS

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

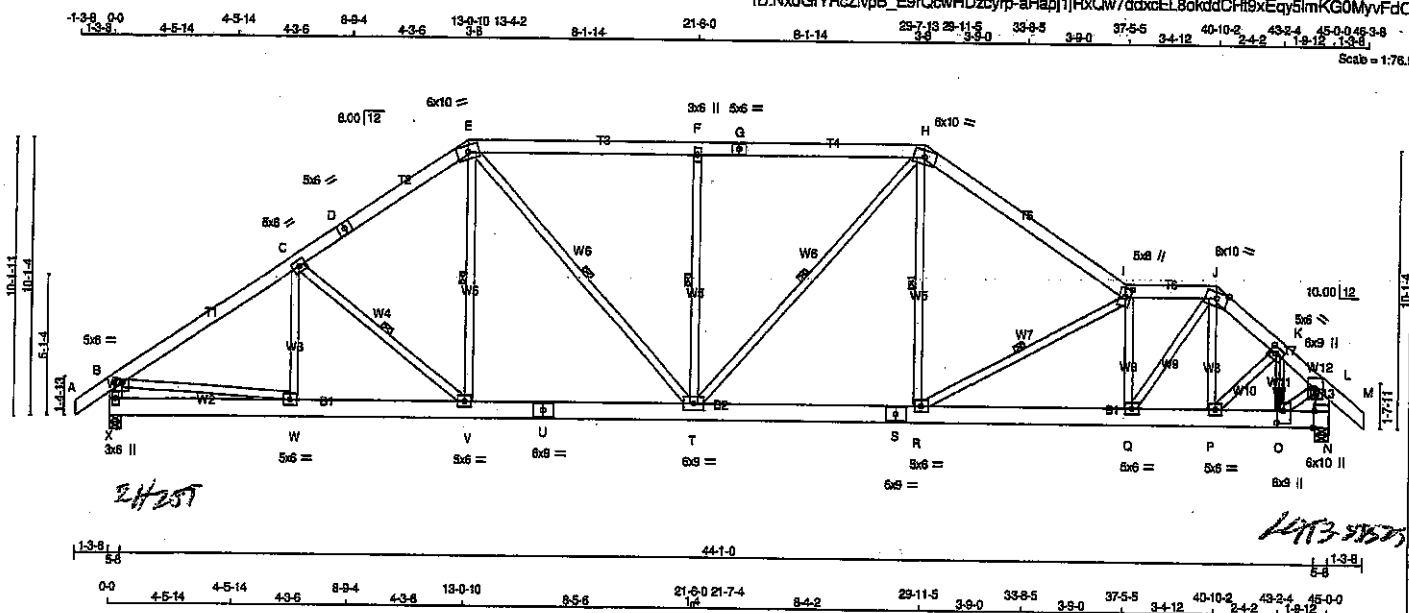
TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.8.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123962 *in*

JOB NAME 418362	TRUSS NAME T9Z	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 9 Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:20:53 2021 Page 1	
ID: NxDG1YrcZlpB_E9rQowHDzcymp-aHapj1RfQw7ddxcEL8okddCHt9xEqy5imKG0MyvFdO				23-7-13 29-11-5 33-9-5 37-5-5 34-12 40-10-2 43-2-4 45-0-0 45-3-8	
Scale = 1/76.8					



CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6	DRY No.2	SPF
D - E	2x6	DRY No.2	SPF
E - G	2x6	DRY No.2	SPF
G - H	2x6	DRY No.2	SPF
H - I	2x6	DRY No.2	SPF
I - J	2x6	DRY No.2	SPF
J - M	2x6	DRY No.2	SPF
X - B	2x6	DRY No.2	SPF
N - L	2x6	DRY No.2	SPF
X - U	2x6	DRY No.2	SPF
U - S	2x6	DRY No.2	SPF
S - N	2x6	DRY No.2	SPF

ALL WEBS 2x4 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-D 2	12	TOP
D-E 2	12	TOP
E-G 2	12	TOP
G-H 2	12	TOP
H-I 2	12	TOP
I-J 2	12	TOP
J-M 2	12	TOP
X-B 2	12	TOP
N-L 2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
X-U 2	12	TOP
U-S 2	12	TOP
S-N 4	4	SIDE (2421.8)
WEBS: (0.122"x3") SPIRAL NAILS		
K-O 1	5	SIDE (141.9)
2x4 1	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLYS.

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
X	3984	0	3984	438
N	11789	0	11789	0

PROVIDE ANCHORAGE AT BEARING JOINT X FOR 1217 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT N FOR 3708 LBS. FACTORED UPLIFT

PROVIDE FOR 438 LBS. FACTORED HORIZONTAL REACTION AT JOINT X

UNFACTORED REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
JT	2941	1749 / 0 515 / 0 0 / 0 123 / -1195 677 / 0 0 / 0
N	8682	5226 / 0 1477 / 0 0 / 0 914 / -3603 1979 / 0 0 / 0

HORIZONTAL REACTIONS
X 0 / 0 0 / 0 0 / 0 313 / -312 0 / 0 0 / 0

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 4.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-V, E-V, H-R, H-T, E-T, F-T.

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: (18)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED HORIZ. LOAD (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LC)
FR-TO						FR-TO			
A-B	0 / 48	-115.2	-115.2	0.03 (2)	10.00	W-C	-389 / 227	0.04 (8)	
B-C	-5091 / 1580	-115.2	-115.2	0.16 (2)	5.93	C-V	-635 / 441	0.07 (2)	
C-D	-4891 / 1612	-115.2	-115.2	0.15 (2)	6.11	V-E	-237 / 745	0.04 (2)	
D-E	-4891 / 1612	-115.2	-115.2	0.15 (2)	6.11	R-H	-589 / 2089	0.11 (3)	
E-F	-4980 / 1763	-115.2	-115.2	0.25 (1)	5.85	R-I	-3326 / 1249	0.42 (3)	
F-G	-4981 / 1763	-115.2	-115.2	0.25 (1)	5.85	Q-I	-2059 / 716	0.15 (1)	
G-H	-4981 / 1763	-115.2	-115.2	0.25 (1)	5.85	Q-J	-894 / 2481	0.13 (1)	
H-I	-5664 / 1871	-115.2	-115.2	0.24 (3)	5.61	P-J	-672 / 2635	0.14 (2)	
I-J	-7483 / 2435	-115.2	-115.2	0.10 (14)	5.20	B-W	-1133 / 4305	0.23 (1)	
J-K	-7718 / 2514	-115.2	-115.2	0.11 (14)	5.09	Q-L	-2559 / 8523	0.46 (1)	
K-L	-9789 / 3125	-115.2	-115.2	0.12 (14)	4.61	P-K	-2311 / 834	0.12 (2)	
L-M	0 / 53	-115.2	-115.2	0.03 (1)	10.00	O-L	-2559 / 8523	0.46 (1)	
X-B	-3843 / 1231	0.0	0.0	0.08 (1)	7.81	T-H	-264 / 688	0.08 (13)	
N-L	-10925 / 2443	0.0	0.0	0.24 (1)	5.60	E-T	-695 / 1929	0.21 (11)	
						T-F	-1177 / 818	0.17 (2)	
X-W	-422 / 490	-39.5	-39.5	0.04 (4)	6.25				
W-V	-1358 / 4278	-39.5	-39.5	0.17 (1)	6.25				
V-U	-1022 / 3868	-39.5	-39.5	0.16 (1)	6.25				
U-T	-1022 / 3868	-39.5	-39.5	0.16 (1)	6.25				
T-S	-1135 / 4745	-39.5	-39.5	0.16 (1)	6.25				
S-R	-1135 / 4745	-39.5	-39.5	0.19 (1)	6.25				
R-Q	-2113 / 7549	-39.5	-39.5	0.29 (1)	6.25				
Q-P	-1885 / 6038	-39.5	-39.5	0.25 (1)	6.25				
P-O	-2198 / 7395	-39.5	-39.5	0.46 (1)	6.25				
O-N	-10 / 21	-39.5	-39.5	0.22 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
O	43-24	-6238	-6238	1539		BACK	VERT	TOTAL		C1

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2015, ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.
- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.50")
CALCULATED VERT. DEFL. (LL) = L/999 (0.07")
ALLOWABLE DEFL. (TL) = L/780 (3.00")
CALCULATED VERT. DEFL. (TL) = L/999 (0.10")

CSI: TC=0.25/1.00 (F-H-T), BC=0.46/1.00 (O-P-I), WB=0.46/1.00 (L-O-I), SS=0.15/1.00 (N-O-I)

DOL LUMBER=1.08 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.90 (J) (INPUT = 0.90)
JSI METAL = 0.92 (L) (INPUT = 1.00)



Structural component only
DWG# T-2123989

JOB NAME 418362	TRUSS NAME T9Z	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 5 Jan 21 2021 MTEK Industries, Inc. Fri Jul 23 08:20:33 2021 Page 2			
		ID: Nx0GIYRcZvpB E9rQcwHDzcyrg-aHap1jRxQw7ddxcEL8okddCHt9xEqv5lmKG0MyvF-dO			

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	1.50	3.00
C	TMWV-t	MT20	5.0	6.0		
D	TS-t	MT20	5.0	6.0		
E	TTWV-m	MT20	6.0	10.0		
F	TMW-w	MT20	3.0	6.0		
G	TS-t	MT20	5.0	6.0		
H	TTWV-m	MT20	6.0	10.0		
I	TTWV-m	MT20	5.0	6.0	4.00	2.25
J	TTWV-m	MT20	6.0	10.0	Edge	
K	TMWV-t	MT20	5.0	6.0	2.50	2.75
L	TMWV-p	MT20	6.0	9.0		
N	BMV1-t	MT20	6.0	10.0	Edge	0.50
O	BMWV-t	MT20	6.0	9.0	5.50	2.75
P, Q, R, V, W						
P	BMWV-t	MT20	5.0	6.0		
S	BS-t	MT20	6.0	9.0		
T	BMWV-t	MT20	6.0	9.0		
U	BS-t	MT20	6.0	9.0		
X	BMV1-p	MT20	3.0	6.0		

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

NOTES - (1)

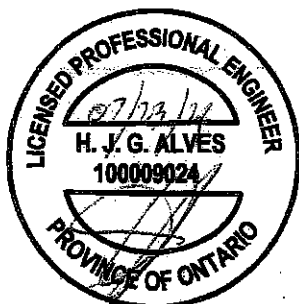
1) Lateral braces to be a minimum of 2X4 SPF #2.

CONNECTION REQUIREMENTS

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

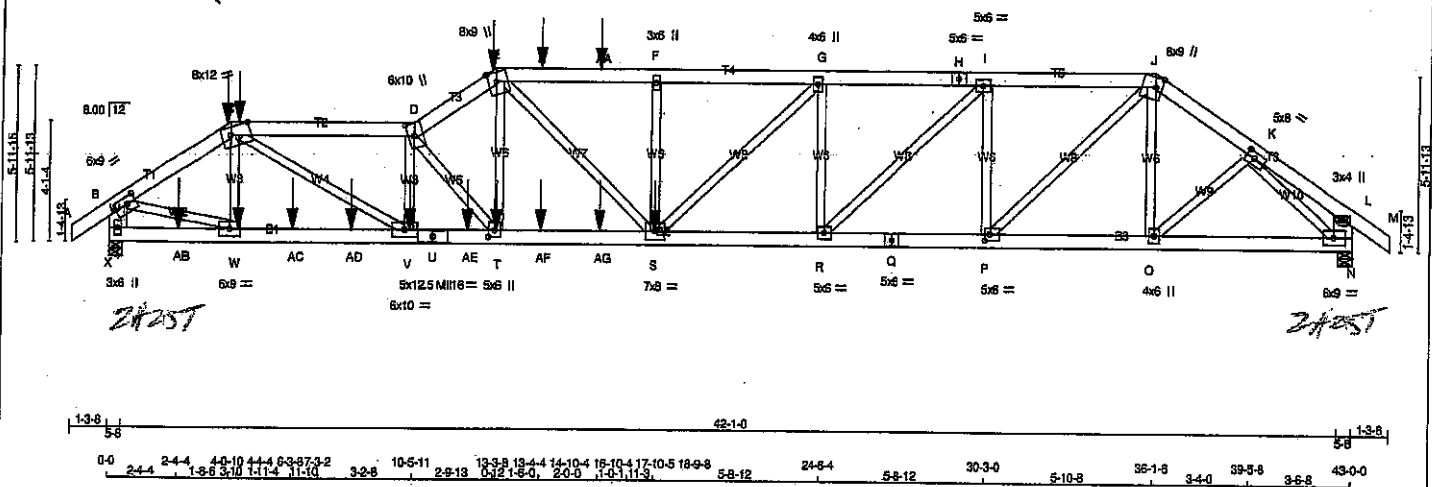
TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123989

JOB NAME 418361	TRUSS NAME T10	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 M Tek Industries, Inc. Fri Jul 23 07:27:23 2021 Page 1	
				ID: N60GIYRcZvpB_E9rQowHDzcymp-akdJ0Qtw8VbWJXgBBY2eihXvY7zRcdLKQMqYvGPY	



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED
A - C	2x6	DRY	No.2	SPF	FACTORED	GROSS REACTION	INPUT
C - D	2x6	DRY	No.2	SPF	VERT.	GROSS REACTION	BRG
D - E	2x6	DRY	No.2	SPF	HORZ.	DOWN	HORZ
E - H	2x6	DRY	No.2	SPF	X	7075	0
H - J	2x6	DRY	No.2	SPF	N	5326	0
J - M	2x6	DRY	No.2	SPF			
M - N	2x6	DRY	No.2	SPF			
N - L	2x6	DRY	No.2	SPF			
L - U	2x6	DRY	1650F 1.5E	SPF			
U - Q	2x6	DRY	1650F 1.5E	SPF			
Q - N	2x6	DRY	1650F 1.5E	SPF			

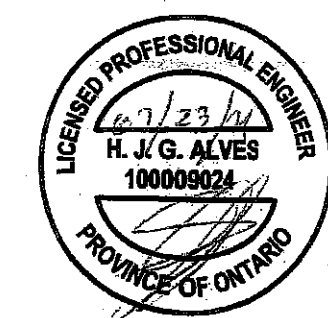
ALL WEBS 2x4 DRY No.2 SPF
EXCEPT
DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	2	12
C-D	2	12
D-E	2	12
E-H	2	12
H-J	2	12
J-M	2	12
M-N	2	12
N-L	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
X-U	2	12
U-Q	2	12
Q-N	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x4	1	6
T-E	1	6
F-S	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO			FR-TO	
A-B	0/49	-115.2 -115.2 0.05 (1)	W-C	-847/229
B-C	-9166/1312	-115.2 -115.2 0.21 (2)	C-V	-1389/9399
C-Y	-15720/2358	-115.2 -115.2 0.68 (1)	V-D	-4451/773
D-E	-15720/2358	-115.2 -115.2 0.68 (1)	D-T	-5594/952
E-H	-14850/2224	-115.2 -115.2 0.32 (1)	T-E	-735/5188
E-Z	-14457/2207	-115.2 -115.2 0.51 (1)	E-S	-512/3019
Z-AA	-14457/2207	-115.2 -115.2 0.51 (1)	S-F	-633/386
AA-F	-14457/2207	-115.2 -115.2 0.51 (1)	F-Q	-460/144
F-G	-14457/2208	-115.2 -115.2 0.48 (1)	Q-K	-112/1077
G-H	-12515/2171	-115.2 -115.2 0.41 (1)	K-W	-949/7779
H-I	-12515/2171	-115.2 -115.2 0.41 (1)	W-N	-7099/1285
I-J	-9698/1853	-115.2 -115.2 0.31 (1)	P-J	-939/5407
J-K	-7013/1418	-115.2 -115.2 0.14 (1)	S-G	-59/2788
K-L	-48/160	-115.2 -115.2 0.07 (3)	P-I	-3487/689
L-M	0/49	-115.2 -115.2 0.05 (3)	R-G	-2578/359
K-B	-7149/1114	0.0 0.0 0.19 (2)	R-I	-441/4002
N-L	-398/233	0.0 0.0 0.01 (14)		
X-AB	-254/284	-39.5 -39.5 0.17 (1)		
AB-W	-254/284	-39.5 -39.5 0.17 (1)		
W-AC	-1047/7582	-39.5 -39.5 0.51 (1)		
AC-AD	-1047/7582	-39.5 -39.5 0.51 (1)		
AD-V	-1047/7582	-39.5 -39.5 0.51 (1)		
V-U	-2263/15899	-39.5 -39.5 0.70 (1)		
U-AE	-2263/15899	-39.5 -39.5 0.70 (1)		
AE-T	-2263/15899	-39.5 -39.5 0.70 (1)		
T-AF	-1679/12493	-39.5 -39.5 0.51 (1)		
AF-AG	-1679/12493	-39.5 -39.5 0.51 (1)		
AG-S	-1679/12493	-39.5 -39.5 0.51 (1)		
S-R	-1914/12515	-39.5 -39.5 0.54 (1)		
R-Q	-1597/9599	-39.5 -39.5 0.43 (1)		
Q-P	-1597/9599	-39.5 -39.5 0.43 (1)		
P-O	-912/5816	-39.5 -39.5 0.28 (1)		
O-N	-922/5187	-39.5 -39.5 0.26 (1)		



Structural component only
DWG# T-2123963

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 = 33.4 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2015, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/200 (1.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.38")
ALLOWABLE DEFL.(TL) = L/180 (2.87")
CALCULATED VERT. DEFL.(TL) = L/982 (0.53")

CSI: TC=0.68/1.00 (C-D-1), BC=0.70/1.00 (T-V-1),
WB=0.83/1.00 (C-V-1), SSI=0.24/1.00 (V-W-1)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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 650 371 1747 788 1987 1873
MI15 438 302 2547 1258 4293 1816

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	9.0	2.75	3.75
C	TTWW-m	MT20	8.0	12.0	Edge	8.25
D	TTWW-m	MT20	6.0	10.0	5.25	2.25
E	TTWW-m	MT20	8.0	9.0	3.75	3.25
F	TMVW-w	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	6.0		
H	TS-t	MT20	5.0	6.0		
I	TMVW-t	MT20	5.0	6.0		
J	TTWW-m	MT20	8.0	9.0	Edge	2.50
K	TMVW-t	MT20	5.0	8.0	2.50	3.50
L	TMV-p	MT20	3.0	4.0		
N	BMVW-t	MT20	6.0	9.0		
O	BMVW-t	MT20	4.0	6.0		
P	BMVW-t	MT20	5.0	6.0	2.50	2.00
Q	BS-t	MT20	5.0	6.0		
R	BMVW-t	MT20	5.0	6.0		
S	BMVW-t	MT20	7.0	8.0		
T	BMVW-t	MT20	5.0	8.0	2.75	2.50
U	BS-t	MT16	5.0	12.5		
V	BMVW-t	MT20	6.0	10.0		
W	BMVW-t	MT20	8.0	9.0		
X	BMV1-p	MT20	3.0	6.0		

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

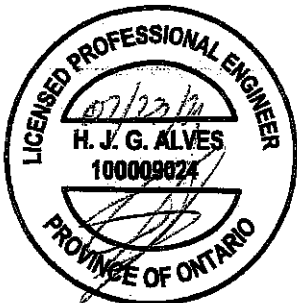
SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	4-0-10	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	4-4-4	-88	-131	---	BACK	VERT	TOTAL	---	C1
C	4-0-10	-171	-171	---	FRONT	VERT	SNOW	---	C1
E	13-3-8	-406	-485	---	BACK	VERT	TOTAL	---	C1
S	18-9-8	-1967	-1967	---	BACK	VERT	TOTAL	---	C1
T	13-4-4	-167	-167	---	BACK	VERT	TOTAL	---	C1
V	10-4-4	-36	-36	---	BACK	VERT	TOTAL	---	C1
W	4-4-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
Z	14-10-4	-8	-8	---	BACK	VERT	TOTAL	---	C1
AA	16-10-4	-8	-8	---	BACK	VERT	TOTAL	---	C1
AB	2-4-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AC	6-3-8	-482	-482	---	BACK	VERT	TOTAL	---	C1
AD	8-4-4	-36	-36	---	BACK	VERT	TOTAL	---	C1
AE	12-4-4	-36	-36	---	BACK	VERT	TOTAL	---	C1
AF	14-10-4	-167	-167	---	BACK	VERT	TOTAL	---	C1
AG	16-10-4	-167	-167	---	BACK	VERT	TOTAL	---	C1

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM), INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE, TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP = 0.90 (T) (INPUT = 0.90)
JSI METAL = 0.69 (Q) (INPUT = 1.00)

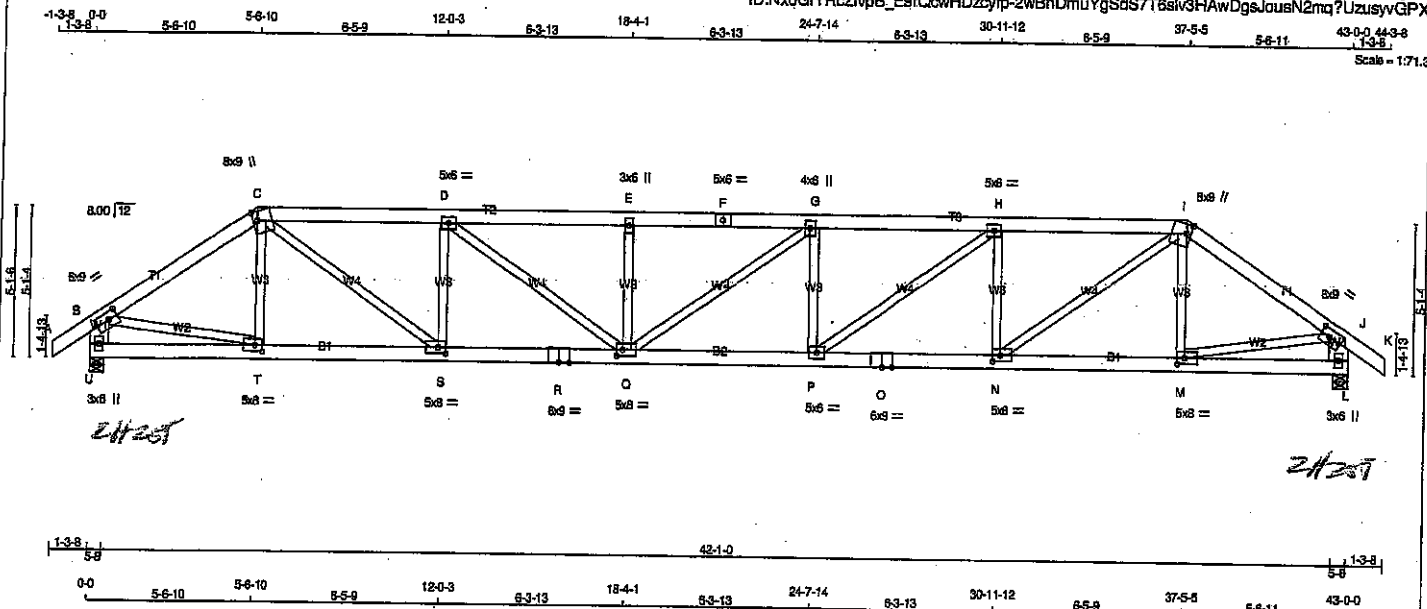


Structural component only
DWG# T-2123963 *3/2*

JOB NAME 418361	TRUSS NAME T11	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 5 Jan 21 2021 MTek Industries, Inc. Fri Jul 23 07:27:24 2021 Page 1
ID:NxQGIYRcZvpB_EgrCQwHDZcyp-2wBhDmuYgSdS7T6slV3HawDgsJoueN2mq?UzusyGPX



LUMBER

N.L.G.A. RULES

CHORDS SIZE

A - C 2x6 DRY No.2

C - F 2x6 DRY No.2

F - I 2x6 DRY No.2

I - K 2x6 DRY No.2

U - B 2x6 DRY No.2

L - J 2x6 DRY No.2

U - R 2x6 DRY No.2

R - O 2x6 DRY No.2

O - L 2x6 DRY No.2

ALL WEBS 2x4 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	9.0	3.00	3.75
C	TTWW+m	MT20	8.0	9.0	3.75	1.75
D	TMVW-t	MT20	5.0	6.0		
E	TMVW-w	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMVW-t	MT20	4.0	6.0		
H	TMVW-t	MT20	5.0	6.0		
I	TTWW+m	MT20	8.0	9.0	3.75	1.75
J	TMVW-t	MT20	6.0	9.0	3.00	3.75
L	BMV1+p	MT20	3.0	6.0		
M	BMVW-t	MT20	5.0	6.0	2.50	3.00
N	BMVW-t	MT20	5.0	6.0	2.50	3.25
O	BS-t	MT20	6.0	9.0		
P	BMVW-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.50
R	BS-t	MT20	6.0	9.0		
S	BMVW-t	MT20	5.0	6.0	2.50	3.25
T	BMVW-t	MT20	5.0	6.0	2.50	3.00
U	BMV1+p	MT20	3.0	6.0		

NOTES: (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
U	3491	0	3522	-237
L	3491	0	3522	0

PROVIDE ANCHORAGE AT BEARING JOINT U FOR 1136 LBS FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1136 LBS FACTORED UPLIFT

PROVIDE FOR 237 LBS FACTORED HORIZONTAL REACTION AT JOINT U

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	2576	1552/0	452/0	0/0	0/-1097	593/0	0/0
L	2576	1552/0	452/0	0/0	85/-1097	593/0	0/0

HORIZONTAL REACTIONS

U	0/0	0/0	0/0	169/-170	0/0	0/0
---	-----	-----	-----	----------	-----	-----

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 2.73 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 5.36 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS

MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED (CSF)	MAX. FACTORED (CSF)	WELLS	MEMB.	FORCE (LBS)	MAX. FACTORED (CSF)
FR-TO		FROM TO			FR-TO			
A-B	0/49	-115.2 -115.2	0.09 (2)	10.00	T-C	-346/210	0.08 (8)	
B-C	-4241/1393	-115.2 -115.2	0.45 (2)	3.81	M-I	-343/209	0.08 (8)	
C-D	-6304/2194	-115.2 -115.2	0.59 (1)	3.11	B-T	-985/3585	0.57 (1)	
D-E	-7603/2591	-115.2 -115.2	0.71 (1)	2.73	M-J	-985/3587	0.57 (1)	
E-F	-7603/2591	-115.2 -115.2	0.81 (1)	2.84	N-I	-1180/3498	0.99 (13)	
F-G	-7603/2591	-115.2 -115.2	0.81 (1)	2.84	C-S	-1198/3500	1.00 (11)	
G-H	-7608/2594	-115.2 -115.2	0.71 (1)	2.73	N-H	-1797/746	0.43 (2)	
H-I	-6304/2194	-115.2 -115.2	0.58 (1)	3.11	S-D	-1786/755	0.43 (3)	
I-J	-4243/1394	-115.2 -115.2	0.45 (3)	3.81	P-H	-551/1884	0.46 (13)	
J-K	0/49	-115.2 -115.2	0.09 (3)	10.00	D-Q	-561/1879	0.47 (11)	
U-B	-3432/1158	0.0	0.17 (2)	6.44	P-G	-748/382	0.18 (2)	
L-J	-3432/1158	0.0	0.17 (3)	6.44	Q-E	-706/385	0.17 (2)	
					Q-G	-72/61	0.06 (3)	
U-T	-219/229	-39.5	-39.5	0.12 (17)				
T-S	-1080/3513	-39.5	-39.5	0.50 (1)				
S-R	-1875/6305	-39.5	-39.5	0.84 (1)				
R-Q	-1875/6305	-39.5	-39.5	0.84 (1)				
Q-P	-2352/7808	-39.5	-39.5	1.00 (1)				
P-O	-1909/6304	-39.5	-39.5	0.84 (1)				
O-N	-1909/6304	-39.5	-39.5	0.84 (1)				
N-M	-949/3515	-39.5	-39.5	0.50 (1)				
M-L	-8/18	-39.5	-39.5	0.12 (17)				

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(b)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 33.4 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.4 PSF

TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF NBCC 2015, ABC 2019

- PART 4 OF CBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED

- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEF.(LL) = L/360 (1.43")
CALCULATED VERT. DEF.(LL) = L/999 (0.41")
ALLOWABLE DEF.(TL) = L/180 (2.87")
CALCULATED VERT. DEF.(TL) = L/914 (0.58")

CSI: TC=0.7/1.0 (D-E:1), BC=1.00/1.00 (P-Q:1), WB=1.00/1.00 (C-S:1), SS=0.28/1.00 (C-D:3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00

WIND LOAD IMPORTANCE FACTOR = 1.00

LIVE LOAD IMPORTANCE FACTOR = 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

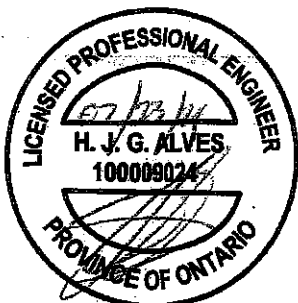
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

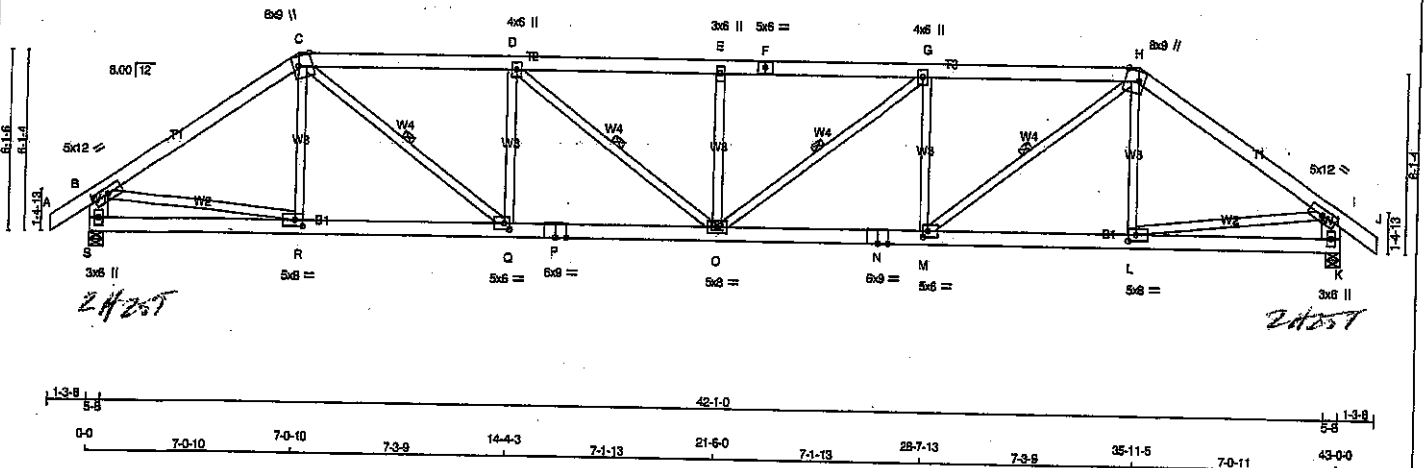
JSI GRIP = 0.88 (S) (INPUT = 0.90)

JSI METAL = 0.99 (R) (INPUT = 1.00)



Structural component only
DWG# T-2123964

JOB NAME 418361	TRUSS NAME T12	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:25 2021 Page 1 ID: N0GfYRcZlvP8_E9rQowHDzoyr-W6k3R6uAQmJich2JcaWj7mr1l8Xbx_v3lDWQlvvGPW		
-1-3-8 0-0 7-0-10 7-0-10 7-3-9 14-4-3 7-1-13 21-6-0 7-1-13 28-7-13 7-3-9 35-11-5 7-0-11 43-0-0 44-3-8						
Scale = 1:71.5						



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x6	DRY	No.2
C - F	2x6	DRY	No.2
F - H	2x6	DRY	No.2
H - J	2x6	DRY	No.2
S - B	2x6	DRY	No.2
K - I	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
N - K	2x6	DRY	No.2

ALL WEBS 2x4 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW-t	MT20	5.0	12.0	
C TMVW+m	MT20	8.0	9.0	Edge 5.75
D TMVW-t	MT20	4.0	6.0	
E TMVW-w	MT20	3.0	6.0	
F TS-t	MT20	5.0	6.0	
G TMVW-t	MT20	4.0	6.0	
H TMVW+m	MT20	8.0	9.0	Edge 5.75
I TMVW-t	MT20	5.0	12.0	
K BMVW-t	MT20	3.0	6.0	
L BMVW-t	MT20	5.0	8.0	2.50 3.25
M BMVW-t	MT20	5.0	6.0	2.50 2.00
N BS-t	MT20	6.0	9.0	
O BMVW-t	MT20	5.0	8.0	
P BS-t	MT20	6.0	9.0	
Q BMVW-t	MT20	5.0	8.0	2.50 2.00
R BMVW-t	MT20	5.0	8.0	2.50 3.25
S BMV-t	MT20	3.0	6.0	

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

NOTES- (1)
1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	VERT	HORZ	DOWN	BRG
S	3491	0	3513	-277	-1127
K	3491	0	3513	0	-1127

PROVIDE ANCHORAGE AT BEARING JOINT S FOR 1127 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT K FOR 1127 LBS FACTORED UPLIFT

PROVIDE FOR 277 LBS FACTORED HORIZONTAL REACTION AT JOINT S

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
S	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
S	2578	1546 / 0	452 / 0	0 / 0	0 / -1091	598 / 0
K	2578	1546 / 0	452 / 0	0 / 0	121 / -1091	598 / 0

HORIZONTAL REACTIONS

S	0 / 0	0 / 0	0 / 0	198 / -198	0 / 0	0 / 0
---	-------	-------	-------	------------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 2.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.98 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 49	-115.2	-115.2	0.09 (2)	R-C	-227 / 236	0.08 (8)
B-C	-4248 / 1373	-115.2	-115.2	0.73 (2)	L-H	-224 / 234	0.08 (8)
C-D	-5758 / 2027	-115.2	-115.2	0.88 (1)	B-R	-940 / 3557	0.57 (1)
D-E	-6417 / 2202	-115.2	-115.2	0.75 (1)	L-I	-940 / 3558	0.57 (1)
E-F	-6417 / 2202	-115.2	-115.2	0.75 (1)	M-H	-1000 / 2919	0.47 (2)
F-G	-6417 / 2202	-115.2	-115.2	0.75 (1)	C-Q	-1023 / 2920	0.47 (3)
G-H	-5737 / 2027	-115.2	-115.2	0.69 (1)	M-G	-1512 / 673	0.55 (2)
H-I	-4250 / 1378	-115.2	-115.2	0.74 (3)	Q-D	-1513 / 687	0.55 (3)
I-J	0 / 49	-115.2	-115.2	0.09 (3)	O-G	-303 / 945	0.15 (2)
S-B	-3397 / 1152	0.0	0.0	0.17 (2)	D-O	-324 / 945	0.15 (3)
K-I	-3397 / 1152	0.0	0.0	0.17 (3)	O-E	-781 / 393	0.28 (1)
S-R	-258 / 289	-39.5	-39.5	0.18 (17)			
R-Q	-1040 / 3527	-39.5	-39.5	0.54 (1)			
Q-P	-1766 / 5758	-39.5	-39.5	0.78 (1)			
P-O	-1766 / 5758	-39.5	-39.5	0.78 (1)			
O-N	-1702 / 5757	-39.5	-39.5	0.78 (1)			
N-M	-1702 / 5757	-39.5	-39.5	0.78 (1)			
M-L	-910 / 3528	-39.5	-39.5	0.54 (1)			
L-K	-8 / 18	-39.5	-39.5	0.18 (17)			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.8

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2018, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA C88-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.43")
CALCULATED VERT. DEFL.(LL) = L/998 (0.30")
ALLOWABLE DEFL.(TL) = L/180 (2.87")
CALCULATED VERT. DEFL.(TL) = L/998 (0.42")

CS1: TC=0.75/1.00 (C-E1), BC=0.78/1.00 (M-C1), WB=0.57/1.00 (L-L1), SS1=0.30/1.00 (C-D-3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.86 (P) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2123965

JOB NAME 418361	TRUSS NAME T12	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 07:27:25 2021 Page 2
ID:Nx0GIYRcZivpB E9rQcwHDzovrp-W6k3R6uAQmIjch2JcaWj7mr1BXbx v3IDWQllyvGPW

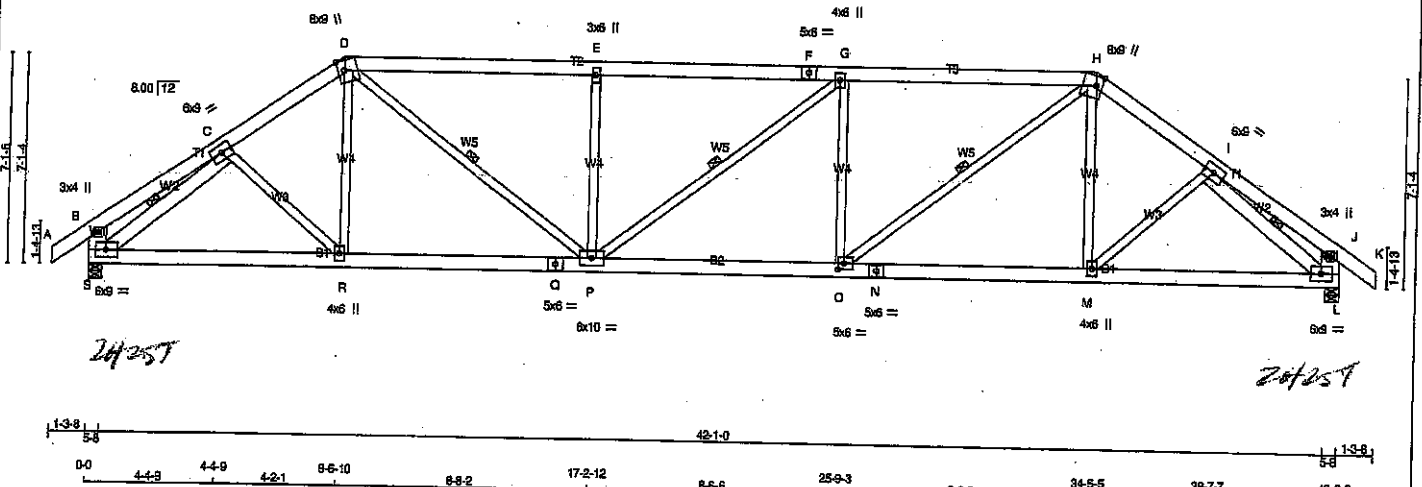
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (8.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123965 *212*

JOB NAME 418361	TRUSS NAME T13	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 07:27:28 2021 Page 1 ID: NxDGIYRcZvpB_E3rQowHDzyp_JlReSvoB3ANmGPIK5IFLJ_X6YBKNB3Uz4ylyvGPV	

Scale = 1/71.6



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR
A - D	2x6	DRY	No.2	SPF
D - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - K	2x6	DRY	No.2	SPF
S - B	2x6	DRY	No.2	SPF
L - J	2x6	DRY	No.2	SPF
S - Q	2x6	DRY	No.2	SPF
Q - N	2x6	DRY	No.2	SPF
N - L	2x6	DRY	No.2	SPF
ALL WEBS	2x4	DRY	No.2	SPF
EXCEPT				
S - C	2x6	DRY	No.2	SPF
I - L	2x6	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TMVW+I	MT20	6.0	9.0	
D	TTWW+m	MT20	8.0	9.0	Edge 2.50
E	TMVW+w	MT20	3.0	6.0	
F	TS+I	MT20	5.0	6.0	
G	TMVW+t	MT20	4.0	6.0	
H	TTWW+m	MT20	8.0	9.0	Edge 2.50
I	TMVW+t	MT20	6.0	9.0	
J	TMV+p	MT20	3.0	4.0	
L	BMVW1-t	MT20	6.0	9.0	
M	BMVW+t	MT20	4.0	6.0	
N	BS+I	MT20	5.0	6.0	
O	BMVW+t	MT20	5.0	6.0	2.50 2.50
P	BMVWw+t	MT20	6.0	10.0	
Q	BS+I	MT20	5.0	6.0	
R	BMVW+t	MT20	4.0	6.0	
S	BMVW1-t	MT20	6.0	9.0	

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

NOTES: (1)
1) Lateral braces to be a minimum of 2x4 SPF #2.



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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
L	VERT	DOWN	UPLIFT	IN-SX
S	3491 0	3498 0	-1118 5-8	5-8
S	3491 0	3498 -317	-1118 5-8	5-8

PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1118 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT S FOR 1118 LBS FACTORED UPLIFT

PROVIDE FOR 317 LBS FACTORED HORIZONTAL REACTION AT JOINT S

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
L	2576	1536 / 0	452 / 0	0 / 0	154 / -1083	593 / 0	0 / 0
S	2576	1536 / 0	452 / 0	0 / 0	0 / -1083	593 / 0	0 / 0

HORIZONTAL REACTIONS

S	0 / 0	0 / 0	0 / 0	228 / -228	0 / 0	0 / 0
---	-------	-------	-------	------------	-------	-------

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 2.98 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-O, D-P, G-P, C-S, L-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: (18)

MAX. FACTORED		FACTORED		MAX. FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. FACTORED CSI (LC)	MEMB.	FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO		
A-B	0 / 49	-115.2 -115.2	0.09 (2)	C-R	-153 / 431	0.07 (3)
B-C	-31 / 180	-115.2 -115.2	0.15 (2)	R-D	-84 / 422	0.07 (5)
C-D	-4218 / 1472	-115.2 -115.2	0.25 (13)	D-E	-84 / 411	0.07 (6)
D-E	-5315 / 1864	-115.2 -115.2	0.88 (1)	E-F	-90 / 430	0.07 (2)
E-F	-5315 / 1885	-115.2 -115.2	0.88 (1)	F-G	-855 / 2454	0.51 (13)
F-G	-5315 / 1885	-115.2 -115.2	0.88 (1)	G-H	-863 / 2449	0.52 (11)
G-H	-5319 / 1867	-115.2 -115.2	0.89 (1)	H-I	-1164 / 594	0.84 (2)
H-I	-4218 / 1473	-115.2 -115.2	0.25 (14)	I-J	-1059 / 558	0.59 (3)
I-J	-31 / 180	-115.2 -115.2	0.15 (3)	J-K	-158 / 149	0.10 (3)
J-K	0 / 48	-115.2 -115.2	0.09 (3)	K-L	-4525 / 1341	0.47 (1)
K-L	-413 / 265	0.0 0.0	0.02 (13)	L-J	-4525 / 1342	0.47 (1)
L-J	-414 / 265	0.0 0.0	0.02 (14)			
S-R	-1169 / 3409	-39.5 -39.5	0.80 (1)			
R-Q	-999 / 3490	-39.5 -39.5	0.61 (1)			
Q-P	-999 / 3490	-39.5 -39.5	0.61 (1)			
P-O	-1537 / 5319	-39.5 -39.5	0.75 (1)			
O-N	-857 / 3491	-39.5 -39.5	0.61 (1)			
N-M	-857 / 3491	-39.5 -39.5	0.61 (1)			
M-L	-993 / 3411	-39.5 -39.5	0.60 (1)			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.8.2.(8)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF BCSC 2018, ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.24")
ALLOWABLE DEFL. (TL) = L/180 (2.67")
CALCULATED VERT. DEFL. (TL) = L/999 (0.34")

CSI: TO=0.89/1.00 (G-H:1), BC=0.75/1.00 (O-P:1), WB=0.64/1.00 (G-O:2), SSI=0.36/1.00 (G-H:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (H) (INPUT = 0.80)
JSI METAL= 0.72 (I) (INPUT = 1.00)

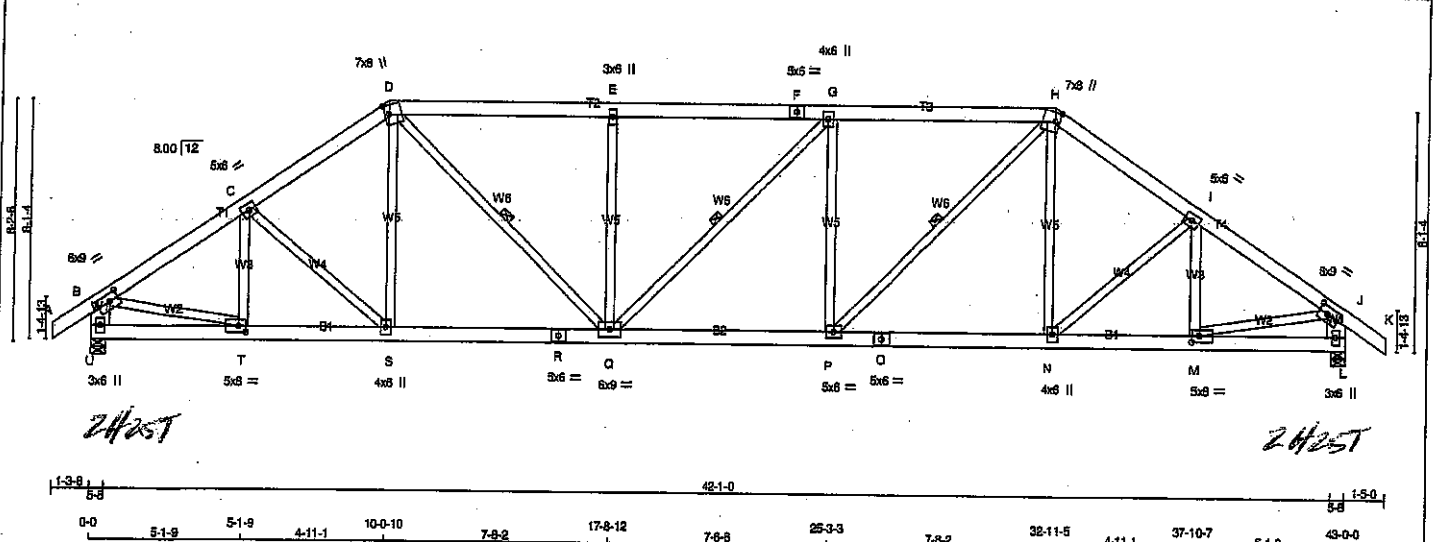
JOB NAME 418361	TRUSS NAME T13	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	
Version 8.420 9 Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:27:26 2021 Page 2 ID:NxQGIYRcZivpB E9rQcwHDzcyv- JIReSvoB3tANmGFIK5IFLJ X6YBKNB3Ijz4yivvGPV					

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpG, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123966 *ma*

JOB NAME 418361	TRUSS NAME T14	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITak Industries, Inc. Fri Jul 23 07:27:27 2021 Page 1	
ID: N00GIYRcZvpB_E9rQawHDzcyrp-SVspsnwQyN70_wrRQ1d_oYrDJWw3mxCXzldVByvGPU				43-0-0 44-5-0 1-5-0	
Scale = 1:7.5					



TOTAL WEIGHT = 273 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQD	SPECIFIED LOADS:			
CHORDS				GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL = 33.4 PSF			
A - D	2x6	DRY	No.2	VERT	DOWN	UPLIFT	IN-SX	DL = 8.0 PSF			
D - F	2x6	DRY	No.2	U	3491	0	5-8	BOT CH. LL = 10.5 PSF			
F - H	2x6	DRY	No.2	L	3505	0	5-8	DL = 7.4 PSF			
H - K	2x6	DRY	No.2					TOTAL LOAD = 57.3 PSF			
K - L	2x6	DRY	No.2					SPACING = 24.0 IN CC			
L - J	2x6	DRY	No.2					LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12			
J - R	2x6	DRY	No.2					THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015			
R - O	2x6	DRY	No.2					THIS DESIGN COMPLIES WITH:			
O - L	2x6	DRY	No.2					- PART 4 OF BCBC 2018, ABC 2019			
ALL WEBS	2x4	DRY	No.2					- PART 4 OF CBC 2012 (2019 AMENDMENT)			
EXCEPT								- CSA 086-14			
DRY: SEASONED LUMBER.								- TPIC 2014			
								DESIGN ASSUMPTIONS			
								- SLOPE REDUCTION FACTOR USED			
								- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.			
								(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD			
								ALLOWABLE DEFL.(LL) = L/360 (1.43")			
								CALCULATED VERT. DEFL.(LL) = L/999 (0.19")			
								ALLOWABLE DEFL.(TL) = L/180 (2.87")			
								CALCULATED VERT. DEFL.(TL) = L/999 (0.27")			
								CSI: TC=0.83/1.00 (G-H:1), BC=0.85/1.00 (P-Q:1),			
								WB=0.86/1.00 (G-P:2), SS=0.32/1.00 (G-H:3)			
								DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
								COMP=1.10 SHEAR=1.10 TENS=1.10			
								SNOW LOAD IMPORTANCE FACTOR = 1.00			
								WIND LOAD IMPORTANCE FACTOR = 1.00			
								LIVE LOAD IMPORTANCE FACTOR = 1.00			
								COMPANION LIVE LOAD FACTOR = 1.00			
								AUTOSOLVE HEELS OFF			
								TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.			
								NAIL VALUES			
								PLATE GRIP(DRY) SHEAR SECTION			
								(PS) (PL) (PL)			
								MAX MIN MAX MIN MAX MIN			
								MT20 850 371 1747 788 1987 1873			
								PLATE PLACEMENT TOL = 0.250 inches			
								PLATE ROTATION TOL = 5.0 Deg.			
								JSI GRIP= 0.87 (T) (INPUT = 0.80)			
								JSI METAL= 0.71 (J) (INPUT = 1.00)			

JOB NAME 418361	TRUSS NAME T14	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 Mittek Industries, Inc. Fri Jul 23 07:27:27 2021 Page 2 ID:Nx0GIYRcZivpB E9rQowHDzcyp-SVspsnwQyN?0 wrRQ1d oYrDJWw3mxCXzdVBwGPU	

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 9.6} PSF AT {30-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_pC_g, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



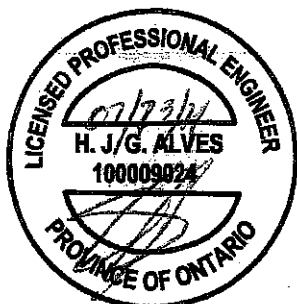
Structural component only
 DWG# T-2123967 *2/2*

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
418361	T15	1	1	GREENPARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

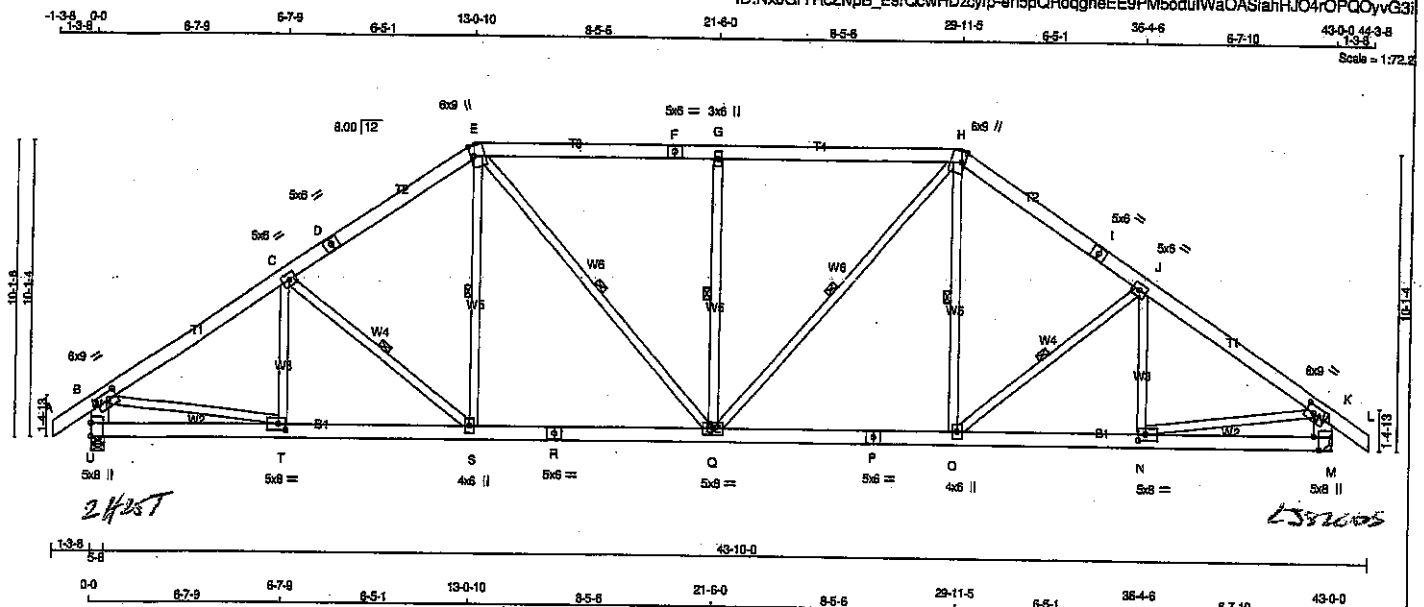
Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:50:40 2021 Page 2
ID:Nx0GIYRcZlvpB E9rQowHDzcynd-AUXRD6nCvNVNc?c9X56fll2jd2MCvrgErBertwvG3j

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30'-0") FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0'-0") FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123968 *2/2*

JOB NAME 418361	TRUSS NAME T16	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 5 Jan 21 2021 MTek Industries, Inc. Fri Jul 23 07:50:41 2021 Page 1 ID: NxD0GIYRcZnpB_E9rCcwHDzyp-eh5pQRogheEE9PM5oduWwOASiahHJO4rOPQOyvG3i	



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x6	DRY	No.2
D - E	2x6	DRY	No.2
E - F	2x6	DRY	No.2
F - H	2x6	DRY	No.2
H - I	2x6	DRY	No.2
I - L	2x6	DRY	No.2
L - M	2x6	DRY	No.2
M - K	2x6	DRY	No.2
K - R	2x6	DRY	No.2
R - P	2x6	DRY	No.2
P - M	2x6	DRY	No.2

ALL WEBS 2x4 DRY No.2
EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	6.0	9.0	3.00	3.75
C	TMW-t	MT20	5.0	6.0		
D, F, I						
E	TS-t	MT20	5.0	6.0		
F	TTWW+m	MT20	6.0	9.0	4.25	1.50
G	TMW-w	MT20	3.0	6.0		
H	TTWW+m	MT20	6.0	9.0	4.25	1.50
J	TMW-t	MT20	5.0	6.0		
K	TMW-t	MT20	6.0	9.0	3.00	3.75
M	BMV-t	MT20	5.0	6.0	Edge	2.25
N	BMW-t	MT20	5.0	6.0		2.50
O	BMW-t	MT20	4.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q	BMW-t	MT20	5.0	6.0		
R	BS-t	MT20	5.0	6.0		
S	BMW-t	MT20	4.0	6.0		
T	BMW-t	MT20	5.0	6.0	2.50	3.00
U	BMV-t	MT20	5.0	6.0	5.50	

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

NOTES: (1)
1)



Structural component only
DWG# T-2123969

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX
U	3491	0	3491	-435	-1071	5-8	5-8
M	3491	0	3491	0	-1071	MECHANICAL	

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

PROVIDE ANCHORAGE AT BEARING JOINT U FOR 1071 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT M FOR 1071 LBS FACTORED UPLIFT

PROVIDE FOR 435 LBS FACTORED HORIZONTAL REACTION AT JOINT U

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	2578	1532 / 0	452 / 0	0 / 0	96 / -1051	593 / 0	0 / 0
M	2578	1532 / 0	452 / 0	0 / 0	241 / -1051	593 / 0	0 / 0

HORIZONTAL REACTIONS

U	0 / 0	0 / 0	0 / 0	311 / -311	0 / 0	0 / 0
---	-------	-------	-------	------------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 3.34 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-S, E-S, H-O, J-O, H-Q, E-Q, G-Q.

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX.	MEMB.	MAX. FACTORED	MAX.
	(LBS)	(PLF)	CS1 (LC)	UNBRAC		(LBS)	CS1 (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	-4313 / 1354	-115.2 -115.2	0.09 (2)	10.00	T-C	-320 / 202	0.10 (8)
B-C	-3845 / 1361	-115.2 -115.2	0.57 (2)	3.70	C-S	-696 / 469	0.23 (2)
C-D	-3845 / 1361	-115.2 -115.2	0.53 (2)	3.92	S-E	-235 / 745	0.12 (2)
D-E	-3845 / 1361	-115.2 -115.2	0.53 (2)	3.92	O-H	-235 / 745	0.12 (3)
E-F	-3831 / 1413	-115.2 -115.2	0.85 (1)	3.34	O-J	-897 / 484	0.23 (3)
F-G	-3831 / 1413	-115.2 -115.2	0.85 (1)	3.34	N-J	-324 / 202	0.10 (8)
G-H	-3880 / 1413	-115.2 -115.2	0.85 (1)	3.35	B-T	-948 / 3680	0.59 (1)
H-I	-3845 / 1362	-115.2 -115.2	0.53 (3)	3.92	N-K	-948 / 3681	0.59 (1)
I-J	-3845 / 1362	-115.2 -115.2	0.53 (3)	3.92	Q-H	-462 / 1300	0.43 (13)
J-K	-4314 / 1355	-115.2 -115.2	0.57 (3)	3.70	E-Q	-518 / 1300	0.48 (11)
K-L	0 / 49	-115.2 -115.2	0.09 (3)	10.00	Q-G	-1184 / 620	0.54 (2)
U-B	-3372 / 1091	0.0	0.0	0.17 (1)			
M-K	-3372 / 1091	0.0	0.0	0.17 (1)			
U-T	-418 / 427	-39.5	-39.5	0.14 (4)	6.25		
T-S	-1177 / 3628	-39.5	-39.5	0.56 (1)	6.25		
S-R	-820 / 3165	-39.5	-39.5	0.52 (1)	6.25		
R-Q	-820 / 3165	-39.5	-39.5	0.52 (1)	6.25		
Q-P	-678 / 3166	-39.5	-39.5	0.52 (1)	6.25		
P-O	-678 / 3166	-39.5	-39.5	0.52 (1)	6.25		
O-N	-922 / 3628	-39.5	-39.5	0.56 (1)	6.25		
N-M	-8 / 18	-39.5	-39.5	0.14 (4)	10.00		

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2 (8)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF NBCC 2015, ABC 2019
- PART 4 OF CBC 2012 (2018 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFLECTION (LL) = L/360 (1.43")
CALCULATED VERT. DEFLECTION (LL) = L/999 (0.15")
ALLOWABLE DEFLECTION (TL) = L/180 (2.87")
CALCULATED VERT. DEFLECTION (TL) = L/999 (0.22")

CSI: TC=0.85/1.00 (E-Q-1), BC=0.58/1.00 (N-O-1),
WB=0.58/1.00 (K-N-1), SS=0.38/1.00 (G-H-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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 660 371 1747 788 1987 1973

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

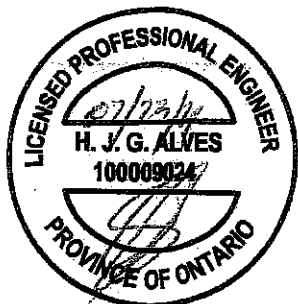
JSI GRIP= 0.87 (T) (INPUT = 0.80)
JSI METAL= 0.73 (B) (INPUT = 1.00)

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
418361	T16	3	1	GREENPARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

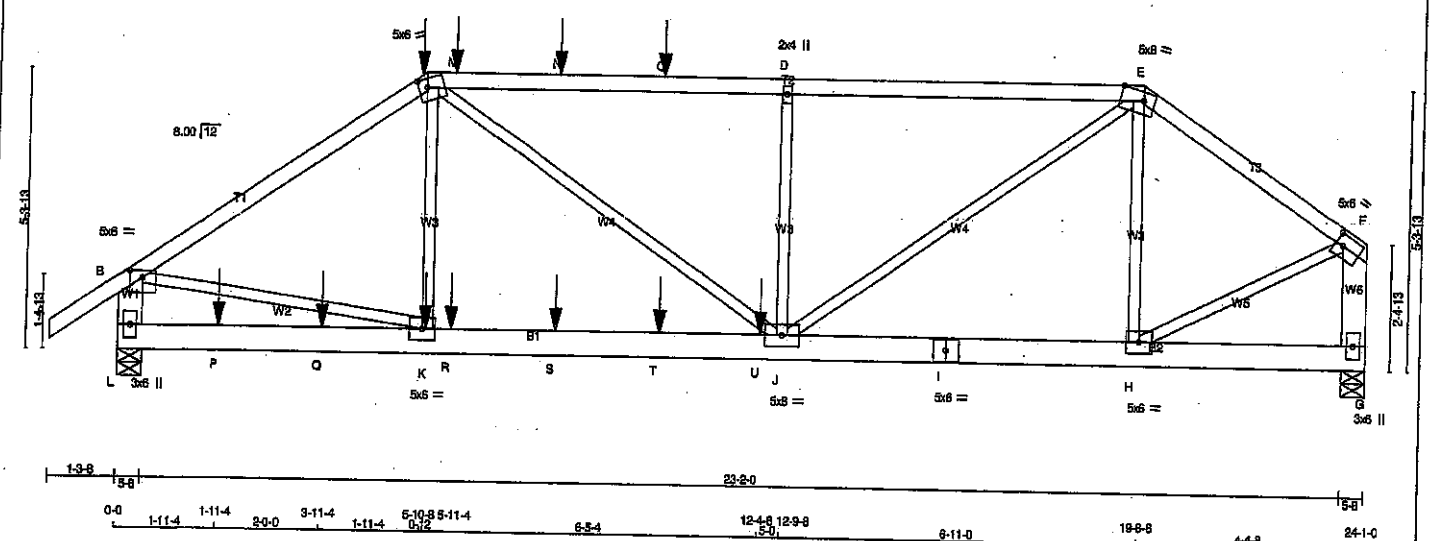
Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:50:41 2021 Page 2
ID:Nx0GIYRcZlvpB E9rQcwHDzvrp-eh5pQRocqheEE9PM5oduIWaQASiahHJO4OPQOvG3j

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2123969

JOB NAME 418361	TRUSS NAME T17	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 5-Jan-21 2021 MITek Industries, Inc. Thu Jul 22 16:00:13 2021 Page 1	
ID: Nx0GIYRcZvpB_E9rQwHDZcyp-OREtVoeArqirXA1KuWc_Ttjd6A3wMdmVQ1kqpyvLj_m					



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(61.0)
C-E	12	SIDE(61.0)
E-F	12	TOP
F-G	12	TOP
G-H	12	TOP
H-I	12	TOP
I-J	12	TOP
J-K	12	TOP
K-L	12	TOP
L-M	12	TOP
M-N	12	TOP
N-O	12	TOP
O-P	12	TOP
P-Q	12	TOP
Q-R	12	TOP
R-S	12	TOP
S-T	12	TOP
T-U	12	TOP
U-V	12	TOP
V-W	12	TOP
W-X	12	TOP
X-Y	12	TOP
Y-Z	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
L-I	12	SIDE(183.1)
I-G	12	TOP
G-C	12	SIDE(5.8)
C-A	12	SIDE(5.8)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS			
FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UPLIFT	IN-SX
L 3015	0	0	5-8
G 2404	0	0	5-8

UNFACTORED REACTIONS			
1ST LCASE	MAX/MIN. COMPONENT REACTIONS		
JT COMBINED	SNOW	LIVE	PERM. LIVE
L 2129	1414 / 0	0 / 0	0 / 0
G 1697	1130 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.69 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)
FR-TO			
A-B	0 / 35	-91.8	-91.8 0.07 (1)
B-C	-3692 / 0	-91.8	-91.8 0.45 (1)
C-M	-4260 / 0	-91.8	-91.8 0.80 (1)
M-N	-4260 / 0	-91.8	-91.8 0.80 (1)
N-O	-4260 / 0	-91.8	-91.8 0.80 (1)
O-D	-4260 / 0	-91.8	-91.8 0.80 (1)
D-E	-4260 / 0	-91.8	-91.8 0.80 (1)
E-F	-2341 / 0	-91.8	-91.8 0.20 (1)
F-G	-2980 / 0	0.0	0.0 0.11 (1)
G-F	-2370 / 0	0.0	0.0 0.10 (1)
L-P	0 / 0	-18.5	-18.5 0.11 (4)
P-Q	0 / 0	-18.5	-18.5 0.11 (4)
Q-K	0 / 0	-18.5	-18.5 0.11 (4)
K-R	0 / 3065	-18.5	-18.5 0.34 (1)
R-S	0 / 3065	-18.5	-18.5 0.34 (1)
S-T	0 / 3065	-18.5	-18.5 0.34 (1)
T-U	0 / 3065	-18.5	-18.5 0.34 (1)
U-J	0 / 3065	-18.5	-18.5 0.34 (1)
J-I	0 / 1928	-18.5	-18.5 0.20 (1)
I-H	0 / 1928	-18.5	-18.5 0.20 (1)
H-G	0 / 0	-18.5	-18.5 0.03 (4)

SPECIFIED CONCENTRATED LOADS (LBS)			
JT	LOC.	MAX.	MAX.
C	5-10-8	-337	-337
K	5-11-4	-29	-29
M	6-5-4	-138	-138
N	8-5-4	-122	-122
O	10-5-4	-122	-122
P	1-11-4	-29	-29
Q	3-11-4	-29	-29
R	6-8-4	-29	-29
S	8-6-4	-29	-29
T	10-5-4	-29	-29
U	12-4-8	-972	-972

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC0 2015

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.80/1.00 (C-D:1), BC=0.34/1.00 (J-K:1), WS=0.38/1.00 (B-K:1), SS=0.48/1.00 (J-K: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
(PS)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	650 371 1747	788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.35 (K) (INPUT = 1.00)



Structural component only
DWG# T-2123970

CONTINUED ON PAGE 2

JOB NAME 418361	TRUSS NAME T17	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 16:00:13 2021 Page 2

ID:Nx0GIYRcZlvpB E9rQowHDzcrrp-OREVbeAralrXA11KuWc Tfid8A3wMdMVQ1kapvvU m

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.50	3.00
C	TTWW-m	MT20	5.0	8.0	2.00	2.00
D	TMW-w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	8.0	Edge	5.50
F	TMVW-t	MT20	5.0	8.0	2.50	1.75
G	BMV1-p	MT20	3.0	6.0		
H	BMWW-t	MT20	5.0	6.0		
I	BS-t	MT20	5.0	8.0		
J	BMWWW-t	MT20	5.0	8.0		
K	BMWW-t	MT20	5.0	6.0		
L	BMV1-p	MT20	3.0	6.0		

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

NOTES- (1)

1) Lateral bracing to be a minimum of 2X4 SPF #2.

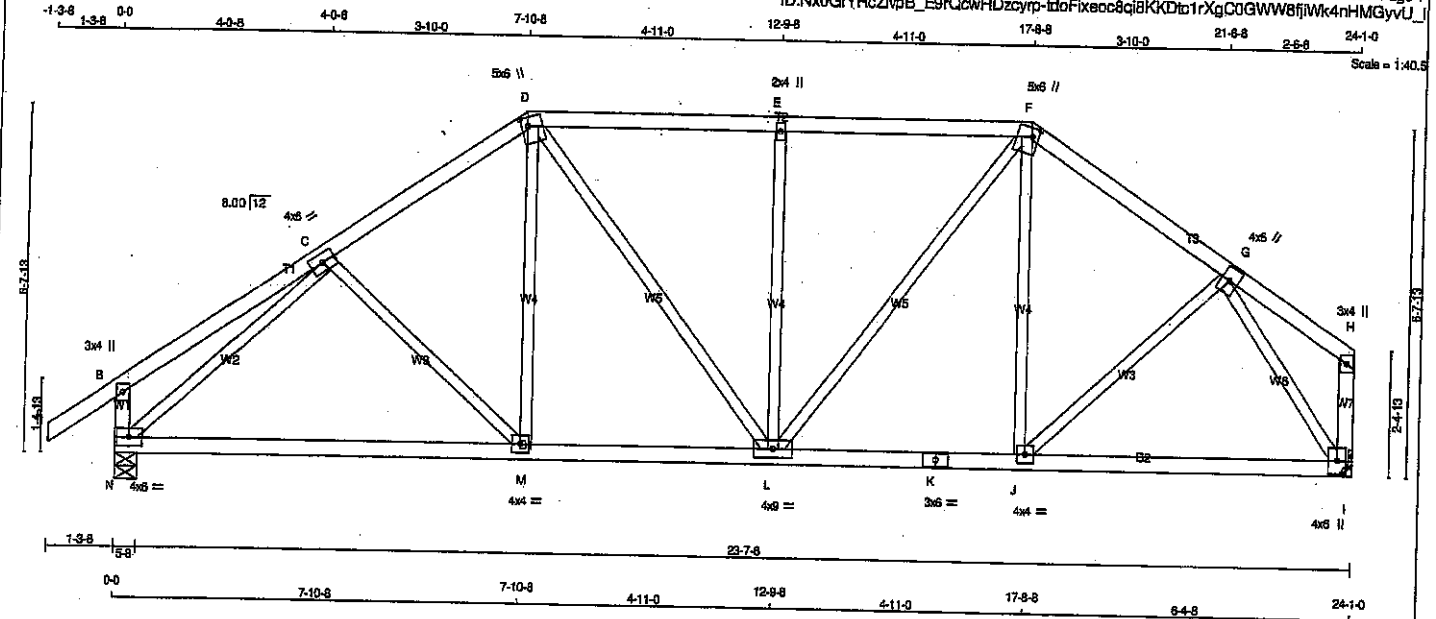


Structural component only
DWG# T-2123970 *ajr*

JOB NAME 418361	TRUSS NAME T18	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Thu Jul 22 16:00:14 2021 Page 1
ID: Nk0GIYRcZlvB_E9rQcwHDzcyrp-tdoFixeoc8qibKKDto1rXgC0GWW8fjWk4nHMGyVUJ



LUMBER

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-t	MT20	4.0	6.0		
D	TMVW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW-w	MT20	2.0	4.0		
F	TMVW+m	MT20	5.0	6.0	2.00	1.50
G	TMVW-t	MT20	4.0	6.0		
H	TMV+p	MT20	3.0	4.0		
I	BMVW1-p	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	4.0		
K	BS-t	MT20	3.0	6.0		
L	BMVW-w	MT20	4.0	6.0		
M	BMVW-t	MT20	4.0	4.0		
N	BMVW1-t	MT20	4.0	6.0		

NOTES-

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
N	1454	0	1454	0
I	1328	0	1328	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
N	1026	686/0	0/0	0/0	339/0	0/0
I	939	616/0	0/0	0/0	323/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				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	0/35	-91.8 -91.8 0.12 (1)	10.00	C-M	-100/20	0.05 (1)	
B-C	0/22	-91.8 -91.8 0.22 (1)	10.00	M-D	0/220	0.05 (4)	
C-D	-1374/0	-91.8 -91.8 0.19 (1)	5.33	D-L	0/273	0.05 (1)	
D-E	-1294/0	-91.8 -91.8 0.30 (1)	5.33	L-E	-551/0	0.40 (1)	
E-F	-1234/0	-91.8 -91.8 0.30 (1)	5.33	F-F	0/490	0.11 (1)	
F-G	-1214/0	-91.8 -91.8 0.18 (1)	5.63	J-F	-47/60	0.03 (1)	
G-H	0/28	-91.8 -91.8 0.17 (1)	10.00	J-G	0/264	0.06 (1)	
H-B	-266/0	0.0 0.0 0.03 (1)	7.81	N-C	-1644/0	0.78 (1)	
I-H	-62/0	0.0 0.0 0.01 (1)	7.81	G-I	-1456/0	0.45 (1)	
N-M	0/1197	-18.5 -18.5 0.35 (4)	10.00				
M-L	0/1126	-18.5 -18.5 0.35 (4)	10.00				
L-K	0/993	-18.5 -18.5 0.26 (4)	10.00				
K-J	0/993	-18.5 -18.5 0.26 (4)	10.00				
J-I	0/799	-18.5 -18.5 0.24 (4)	10.00				

TOTAL WEIGHT = 107 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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 2015

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

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

ALLOWABLE DEFL.(LL) = 1/360 (0.80")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.04")
ALLOWABLE DEFL.(TL) = 1/360 (0.80")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.14")

CSF: TC=0.30/1.00 (D-E:1), BC=0.35/1.00 (L-M:4), WB=0.78/1.00 (C-N:1), GS=0.22/1.00 (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

AUTOSOLVE LEFT HEEL ONLY

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

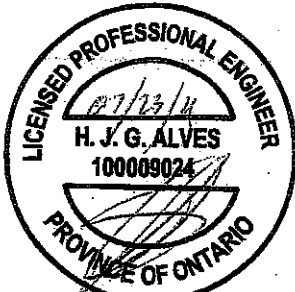
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	850	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

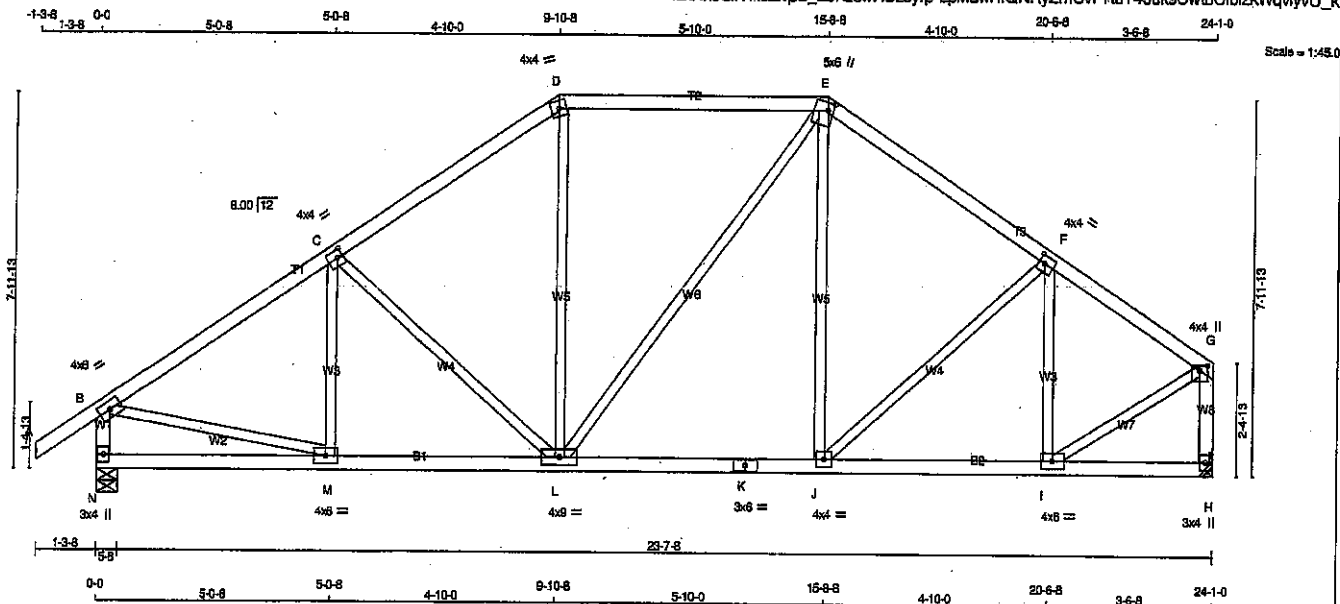
JSI GRIP= 0.85 (N) (INPUT = 0.90)
JSI METAL= 0.62 (G) (INPUT = 1.00)



Structural component only
DWG# T-2123971

JOB NAME 418361	TRUSS NAME T19	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:00:15 2021 Page 1
ID:Nx0GIYRcZvpB_E9rQowHDzcyp-LpMdwHfQNRyZmUvPRJY43ukGcwtoOibtkWqiyvU_k



TOTAL WEIGHT = 108 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0		
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TTW+m	MT20	5.0	5.0	2.00	1.50
F	TMVW-t	MT20	4.0	4.0	2.00	1.50
G	TMVW-p	MT20	4.0	4.0	1.25	2.00
H	BMV1-p	MT20	3.0	4.0		
I	BMVW-t	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	4.0		
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	4.0	6.0		
M	BMVW-t	MT20	4.0	6.0		
N	BMV1-p	MT20	3.0	4.0		

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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	HORIZ	UPLIFT
N	1454	0	1454	0
H	1328	0	1328	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW
N	1026	686/0
H	939	616/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED		
	FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (LC)		FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	M-C	-173/21	0.08 (1)	
B-C	-1484/0	-91.8	-91.8 0.32 (1)	C-L	-399/0	0.27 (1)	
C-D	-1245/0	-91.8	-91.8 0.31 (1)	L-D	0/242	0.05 (1)	
D-E	-1012/0	-91.8	-91.8 0.42 (1)	E-F	0/103	0.02 (1)	
E-F	-1167/0	-91.8	-91.8 0.25 (1)	F-G	0/110	0.04 (4)	
F-G	-1115/0	-91.8	-91.8 0.23 (1)	G-H	-716	0.01 (1)	
G-H	-1413/0	0.0	0.0 0.15 (1)	H-I	-480/0	0.16 (1)	
H-I	-1301/0	0.0	0.0 0.17 (1)	I-J	0/1288	0.29 (1)	
				J-K	0/1107	0.25 (1)	
N-M	0/0	-18.5	-18.5 0.10 (4)				
M-L	0/1258	-18.5	-18.5 0.25 (1)				
L-K	0/951	-18.5	-18.5 0.21 (1)				
K-J	0/951	-18.5	-18.5 0.21 (1)				
J-I	0/954	-18.5	-18.5 0.21 (1)				
I-H	0/0	-18.5	-18.5 0.07 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 2015

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.80")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.03")
ALLOWABLE DEFL. (TL) = $L/360$ (0.80")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.07")

CSI: TC=0.42/1.00 (D-E-1), BC=0.28/1.00 (L-M-1);
WB=0.29/1.00 (B-M-1), SS=0.21/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PL)	(PL)
	MAX	MIN	MAX
MT20	850	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

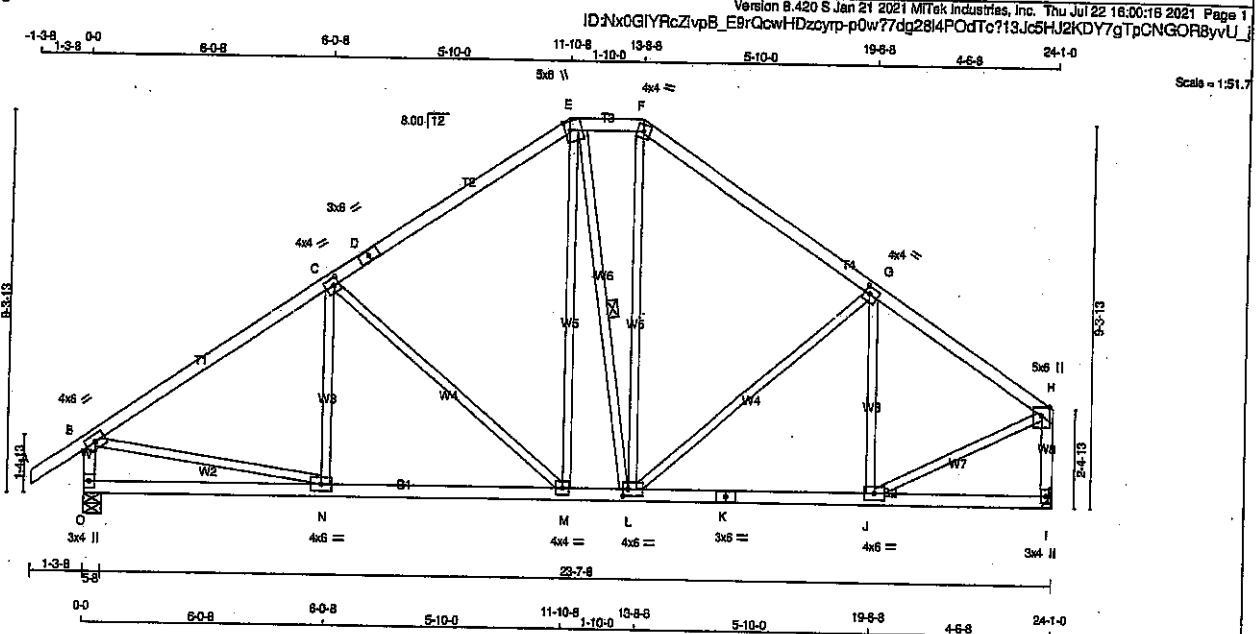
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (G) (INPUT = 0.90)
JSI METAL = 0.38 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123972

JOB NAME 418361	TRUSS NAME T20	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-1	MT20	4.0	6.0		
C	TMWW-1	MT20	4.0	4.0	2.00	1.50
D	TS-1	MT20	3.0	6.0		
E	TTWW-m	MT20	5.0	6.0	2.50	1.50
F	TTWW-m	MT20	4.0	4.0		
G	TMWW-1	MT20	4.0	4.0	2.00	1.50
H	TMWW-p	MT20	5.0	6.0	Edge	
I	BMV1-p	MT20	3.0	4.0		
J	BMWW-1	MT20	4.0	6.0		
K	BS-1	MT20	3.0	6.0		
L	BMWW-1	MT20	4.0	6.0	2.00	1.50
M	BMWW-1	MT20	4.0	4.0		
N	BMWW-1	MT20	4.0	6.0		
O	BMV1-p	MT20	3.0	4.0		

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
O	VERT	DOWN	IN-SX	IN-SX
I	1454	0	5-8	5-8
	1328	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
O	COMBINED SNOW	888 / 0	0 / 0	0 / 0	339 / 0	0 / 0
I	339	618 / 0	0 / 0	0 / 0	323 / 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 = 4.83 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)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	WEBS	MAX. FACTORED	FORCE	MAX
FR-TO		(LBS)	(PLF)		CSI (LC)	LENGTH	FR-TO		(LBS)		CSI (LC)
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	N-C	-98 / 69	0.04 (1)			
B-C	-1485 / 0	-91.8	-91.8	0.47 (1)	4.83	C-M	-502 / 0	0.63 (1)			
C-D	-1102 / 0	-91.8	-91.8	0.44 (1)	5.46	M-E	0 / 373	0.08 (1)			
D-E	-1102 / 0	-91.8	-91.8	0.44 (1)	5.46	E-L	-66 / 0	0.04 (1)			
E-F	-877 / 0	-91.8	-91.8	0.05 (1)	8.25	L-F	0 / 287	0.06 (1)			
F-G	-1081 / 0	-91.8	-91.8	0.39 (1)	5.58	L-G	-203 / 0	0.26 (1)			
G-H	-1197 / 0	-91.8	-91.8	0.35 (1)	5.42	J-G	-366 / 0	0.16 (1)			
O-B	-1408 / 0	0.0	0.0	0.15 (1)	6.57	B-N	0 / 1286	0.29 (1)			
I-H	-1295 / 0	0.0	0.0	0.16 (1)	7.10	J-H	0 / 1130	0.25 (1)			
O-N	0 / 0	-18.5	-18.5	0.17 (4)	10.00						
N-M	0 / 1268	-18.5	-18.5	0.23 (1)	10.00						
M-L	0 / 889	-18.5	-18.5	0.21 (1)	10.00						
L-K	0 / 1028	-18.5	-18.5	0.24 (1)	10.00						
K-J	0 / 1028	-18.5	-18.5	0.24 (1)	10.00						
J-I	0 / 0	-18.5	-18.5	0.12 (4)	10.00						

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.47/1.00 (B-C:1), BC=0.29/1.00 (M-N:1), WB=0.63/1.00 (C-M:1), SS=0.22/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 550 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

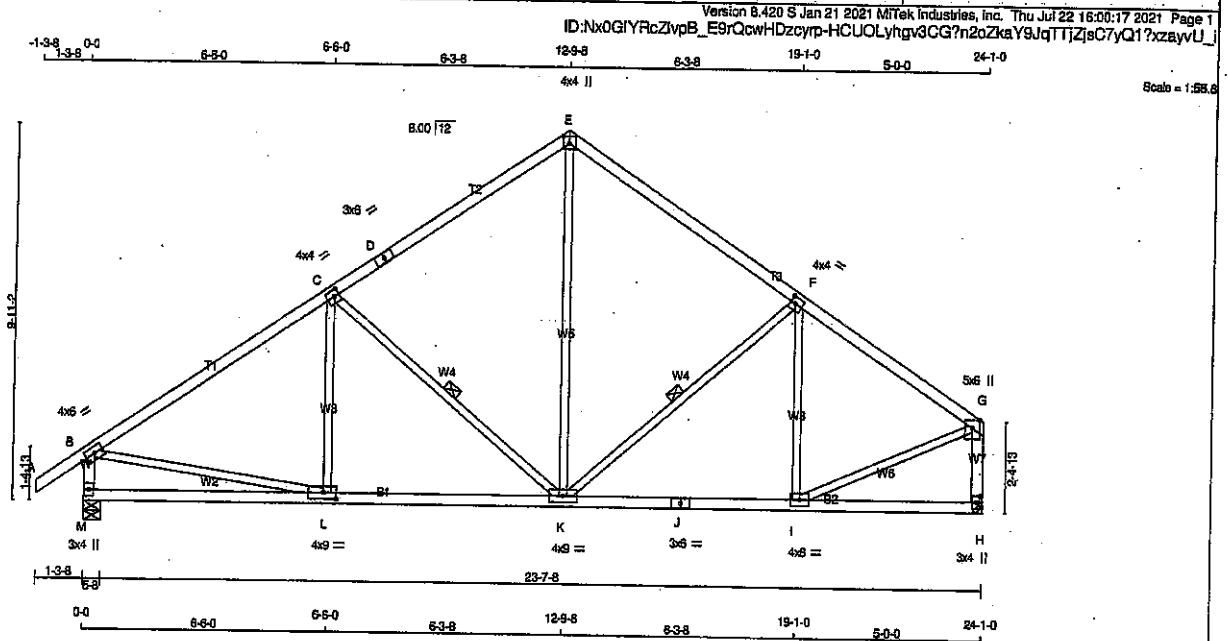
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.84 (B) (INPUT = 0.90)
JSI METAL = 0.48 (H) (INPUT = 1.00)



Structural component only
DWG# T-2123973

JOB NAME 418361	TRUSS NAME T21	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

EXCEPT
DRY, SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-t	MT20	4.0	6.0		
C	TMWV-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	8.0		
E	TTW+p	MT20	4.0	4.0	2.25	2.00
F	TMWV-t	MT20	4.0	4.0	2.00	1.50
G	TMWV+p	MT20	5.0	6.0	Edge	
H	BMV1+p	MT20	3.0	4.0		
I	BMWV-t	MT20	4.0	6.0		
J	BS-t	MT20	3.0	6.0		
K	BMWVW-t	MT20	4.0	9.0		
L	BMWV-t	MT20	4.0	9.0	2.00	4.25
M	BMV1+p	MT20	3.0	4.0		

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	UP	IN-SX
M	1454	0	0	5-8
H	1328	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
M	1026	686 / 0	0 / 0	0 / 0	339 / 0	0 / 0
H	939	616 / 0	0 / 0	0 / 0	323 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 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-K, F-K.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSF (LC)	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSF (LC)
FR-TO			FROM TO		FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	L-C	-79 / 78	0.04 (1)
B-C	-1476 / 0	-91.8	-91.8	0.58 (1)	4.71	C-K	-582 / 0	0.26 (1)
C-D	-1044 / 0	-91.8	-91.8	0.51 (1)	5.44	K-E	0 / 667	0.15 (1)
D-E	-1044 / 0	-91.8	-91.8	0.51 (1)	5.44	K-F	-283 / 0	0.13 (1)
E-F	-1036 / 0	-91.8	-91.8	0.48 (1)	5.57	F-F	-323 / 0	0.16 (1)
F-G	-1220 / 0	-91.8	-91.8	0.41 (1)	5.29	B-L	0 / 1278	0.29 (1)
M-B	-1404 / 0	0.0	0.0	0.14 (1)	8.87	F-G	0 / 1136	0.26 (1)
H-G	-1292 / 0	0.0	0.0	0.16 (1)	7.10			
M-L	0 / 0	-18.5	-18.5	0.18 (4)	10.00			
L-K	0 / 1261	-18.5	-18.5	0.23 (1)	10.00			
K-J	0 / 1049	-18.5	-18.5	0.25 (1)	10.00			
J-I	0 / 1049	-18.5	-18.5	0.25 (1)	10.00			
I-H	0 / 0	-18.5	-18.5	0.13 (4)	10.00			

TOTAL WEIGHT = 104 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.8	PSF
DL	= 6.0	PSF	
BOT CH.	LL	= 0.0	PSF
DL	= 7.4	PSF	
TOTAL LOAD	= 38.0	PSF	

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.80")
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.80")
CALCULATED VERT. DEFL. (TL) = L/999 (0.09")

CSI: TC=0.58/1.00 (B-C:1), BC=0.29/1.00 (K-L:1), WB=0.29/1.00 (B-L:1), SS=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

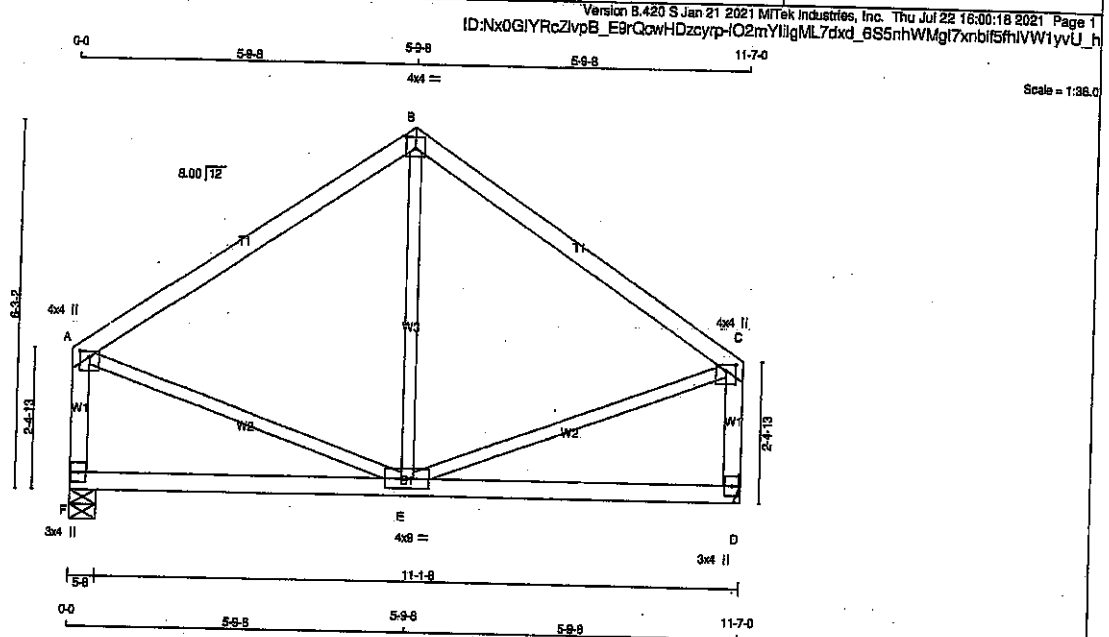
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (E) (INPUT = 0.90)
JSI METAL = 0.50 (G) (INPUT = 1.00)



Structural component only
DWG# T-2123974

JOB NAME 418361	TRUSS NAME T22	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - B	MT20	4.0	4.0	1.25	2.00
B - C	MT20	4.0	4.0	2.25	2.00
F - A	MT20	4.0	4.0	1.25	2.00
D - C	MT20	3.0	4.0		
E - B	MT20	4.0	9.0		
F - D	MT20	3.0	4.0		

NOTES:

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	DOWN	DOWN	IN-SX	IN-SX
F	639	639	5-8	5-8
D	639	639	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT COMBINED	SNOW	LIVE			
F	452	298 / 0	0 / 0	0 / 0	155 / 0
D	452	298 / 0	0 / 0	0 / 0	155 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB. MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	-369 / 0	-91.8	-91.8	0.40 (1)	8.25	E-B	-103 / 63
B-C	-369 / 0	-91.8	-91.8	0.40 (1)	8.25	A-E	0 / 344
F-A	-369 / 0	0.0	0.0	0.08 (1)	7.81	E-C	0 / 344
D-C	-369 / 0	0.0	0.0	0.08 (1)	7.81		
F-E	0 / 0	-18.5	-18.5	0.18 (4)	10.00		
E-D	0 / 0	-18.5	-18.5	0.18 (4)	10.00		

TOTAL WEIGHT = 3 X 48 = 144 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF OBC 2012 (2015 AMENDMENT)
- CSA 086-14
- TPC 2014

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

ALLOWABLE DEFL. (LL) = $L/360$ (0.39")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.39")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.03")

CSI: TC=0.40/1.00 (B-C:1), BC=0.18/1.00 (D-E:4), WB=0.08/1.00 (A-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

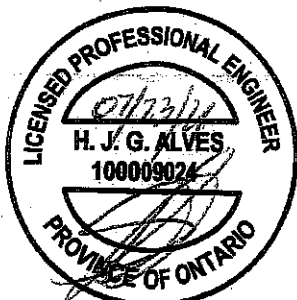
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

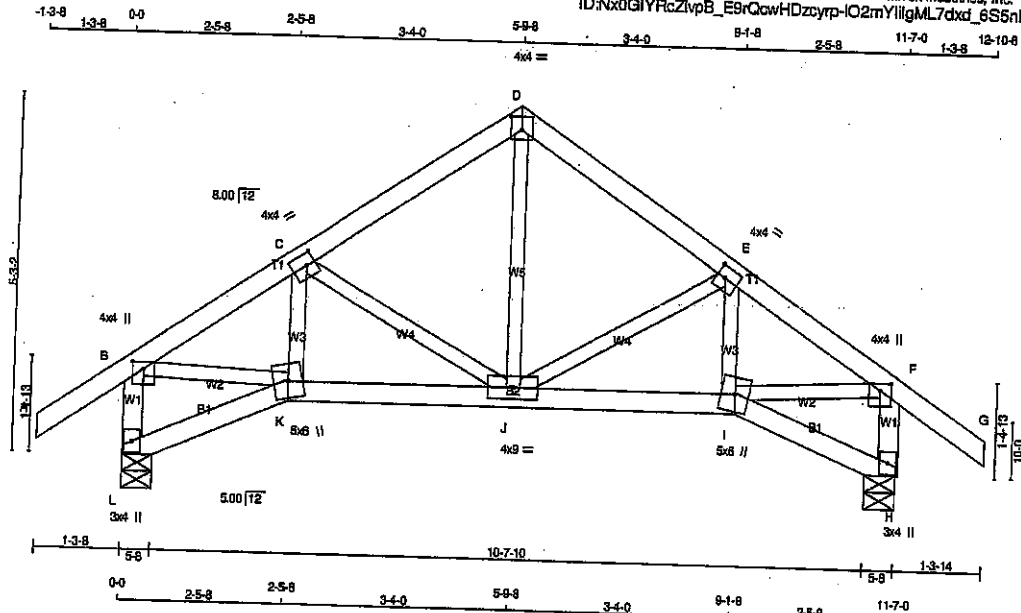
JSI GRIP = 0.41 (A) (INPUT = 0.90)
JSI METAL = 0.12 (A) (INPUT = 1.00)



Structural component only
DWG# T-2123975

JOB NAME 418361	TRUSS NAME T23S	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 6 Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 18:00:18 2021 Page 1
ID:Nx0GIYRcZlvpB_E8rQawHDzcyrp-IO2mYllgML7dxd_6S5nhWMI77xLbhP5mIVW1yvU_h



Scale = 1:31.1

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

DRY: SEASONED LUMBER

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
C	TMVW-t	MT20	4.0	4.0	2.00 1.50
D	TTW+p	MT20	4.0	4.0	2.25 2.00
E	TMVW-t	MT20	4.0	4.0	2.00 1.50
F	TMVW+p	MT20	4.0	4.0	1.25 2.00
H	BMV1+p	MT20	3.0	4.0	
I	BBVW+m	MT20	5.0	6.0	
J	BMVW-t	MT20	4.0	9.0	
K	BBVW+m	MT20	5.0	6.0	
L	BMV1+p	MT20	3.0	4.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS			
FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP
L	784	0	0
H	784	0	0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH
DEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): H

UNFACTORED REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
L	538	367/0	0/0	0/0	0/0	172/0
H	538	367/0	0/0	0/0	0/0	172/0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
A-B	0/35	-91.8	10.00
B-C	-817/0	-91.8	6.25
C-D	-582/0	-91.8	6.25
D-E	-582/0	-91.8	6.25
E-F	-817/0	-91.8	6.25
F-G	0/35	-91.8	10.00
L-B	-742/0	0.0	7.81
H-F	-742/0	0.0	7.81
L-K	0/0	-18.5	10.00
K-J	0/695	-18.5	10.00
J-I	0/695	-18.5	10.00
I-H	0/0	-18.5	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.39")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.39")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.12/1.00 (F-G:1), BC=0.14/1.00 (I-J:1), WB=0.16/1.00 (F-I:1), SS=0.11/1.00 (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)	(PL)	(PL)	(PL)
MT20	650	371	1747

PLATE PLACEMENT TOL = 0.250 inches

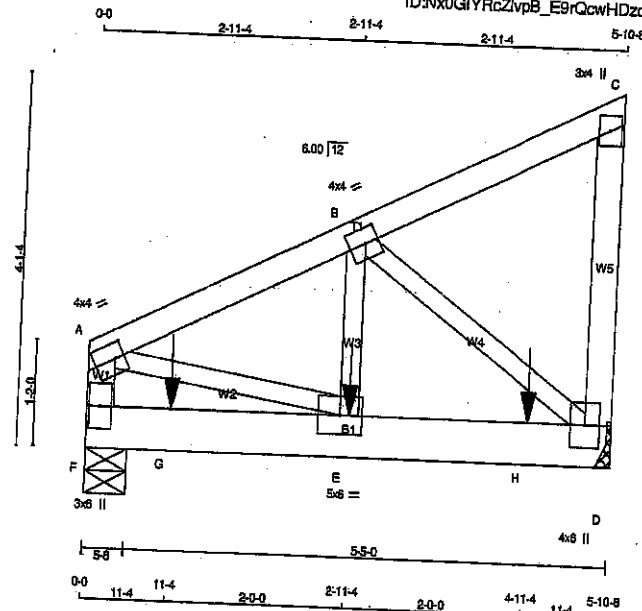
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.82 (B) (INPUT = 0.90)
JSI METAL = 0.25 (I) (INPUT = 1.00)



Structural component only
DWG# T-2123976

JOB NAME 418361	TRUSS NAME T24	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.4.20 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 16:00:19 2021 Page 1 ID:Nx0GIYRcZvpB_E9rQcwHDzoyrp-Dbb8leixRgt_F5CBg9cdEjvweXHCK8tF-ULU22TyvU_g					



Scale = 1:23.3

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A	12	TOP
A-C	12	TOP
C-D	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
A	TMW-1	MT20	4.0	4.0	2.00 1.25
B	TMW-1	MT20	4.0	4.0	2.00 1.75
C	TMW-p	MT20	3.0	4.0	
D	BMW-1p	MT20	4.0	6.0	
E	BMW-1	MT20	5.0	6.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	UP/LIFT		
F	588	0	588	0	5-8	5-8
D	713	0	713	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 2-0.

UNFACTORED REACTIONS

JT	1ST LOOSE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM LIVE	WIND			
F	411	289 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0
D	497	369 / 0	0 / 0	0 / 0	0 / 0	132 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
F-A	-511 / 0	0.0	0.0	0.03 (1)
A-B	-581 / 0	-91.8	-91.8	0.07 (1)
B-C	-13 / 0	-91.8	-91.8	0.06 (1)
D-C	-105 / 0	0.0	0.0	0.01 (1)
F-G	0 / 0	-18.5	-18.5	0.02 (1)
G-E	0 / 0	-18.5	-18.5	0.02 (1)
E-H	0 / 531	-18.5	-18.5	0.10 (1)
H-D	0 / 531	-18.5	-18.5	0.10 (1)

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIRL	TYPE	HEEL	CONN.
E	2-11-4	-208	-208	-	TOP	VERT	TOTAL	-	C1
G	11-4	-58	-58	-	BACK	VERT	TOTAL	-	C1
H	4-11-4	-184	-184	-	BACK	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.07/1.00 (A-B:1), BC=0.10/1.00 (D-E:1),
WB=0.08/1.00 (B-D:1), SS=0.07/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

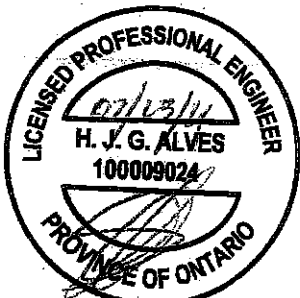
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PS)	(PL)	(PL)
	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1887 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.46 (A) (INPUT = 0.90)
JSI METAL = 0.12 (D) (INPUT = 1.00)



Structural component only
DWG# T-2123977

CONTINUED ON PAGE 2

JOB NAME 418361	TRUSS NAME T24	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:00:19 2021 Page 2
ID:Nx0GIYRcZvpB E9rQcwHDzcyp-Dbb8leixRqT F5CBg9c0ElvweXHCK8tFuLU22TvvU g

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

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2123977

JOB NAME 418362	TRUSS NAME T24Z	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Thu Jul 22 16:43:26 2021 Page 2
ID:Nx0GIYRcZlvpB E9rQcwHDzcyrc-zHQ8IE0qBXOw8ITCizXgaGYQaMA4z7W1mKfRLCwTmF

PLATES (table is in inches)

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

NOTES (1)

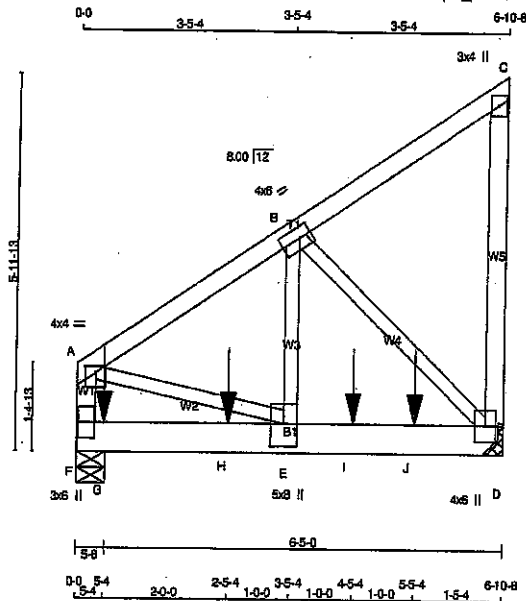
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2123990 *21*

JOB NAME 418361	TRUSS NAME T25	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:00:20 2021 Page 1
ID:Nx0GIYRcZvpB_E9rQowHDzcypr-hn9Wz_ZB_brsFnNt8FmxS5tW53V2O6?EbavyvU_1



Scale = 1/32\"/>

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A	2	SIDE(159.8) TOP TOP
A-C	1	
C-D	1	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D	2	SIDE(183.1)
WEBS : (0.122"x8") SPIRAL NAILS		
2x3	1	

NAILED TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	4.0	4.0	1.25 2.00
B	TMVW-t	MT20	4.0	6.0	2.00 2.25
C	TMVW-p	MT20	3.0	4.0	
D	BMVW1-p	MT20	4.0	6.0	
E	BMVW-t	MT20	5.0	8.0	4.25 2.50

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	3193	0	3193	0	0
D	2807	0	2807	0	0

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

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	2255	1498 / 0	0 / 0	0 / 0	0 / 0	757 / 0	0 / 0
D	1982	1318 / 0	0 / 0	0 / 0	0 / 0	683 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.83 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
F-A	-1949 / 0	0.0	0.0
A-B	-2272 / 0	-91.8	-91.8
B-C	-17 / 0	-91.8	-91.8
D-C	-128 / 0	0.0	0.0
F-G	0 / 0	-18.5	-18.5
G-H	0 / 0	-18.5	-18.5
H-E	0 / 0	-18.5	-18.5
E-I	0 / 1904	-18.5	-18.5
I-J	0 / 1904	-18.5	-18.5
J-D	0 / 1904	-18.5	-18.5

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONJ.
G	5-4	-928	-928	---	BACK	VERT	TOTAL	---	C1
H	2-5-4	-924	-924	---	BACK	VERT	TOTAL	---	C1
I	4-5-4	-924	-924	---	BACK	VERT	TOTAL	---	C1
J	5-5-4	-924	-924	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 37 = 74 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL. (LL) = L/380 (0.23")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/380 (0.23")
CALCULATED VERT. DEFL. (TL) = L/999 (0.04")

CSI: TC=0.11/1.00 (A-F:1), BC=0.57/1.00 (D-E:1), WB=0.47/1.00 (B-D:1), SS=0.60/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	850	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL = 0.43 (D) (INPUT = 1.00)



Structural component only
DWG# T-2123978 1/16

CONTINUED ON PAGE 2

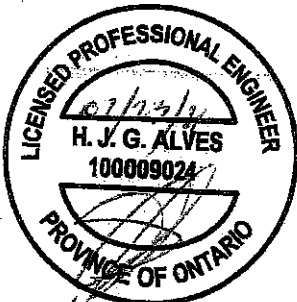
JOB NAME 418361	TRUSS NAME T25	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:00:20 2021 Page 2
 ID:Nx0GIYRcZlvpB E9rQcwHDzoyro-hn9Wz IZB brsFnNEi0FmxS5kxW5gV2O6?EbavvU f

PLATES (table is in inches)

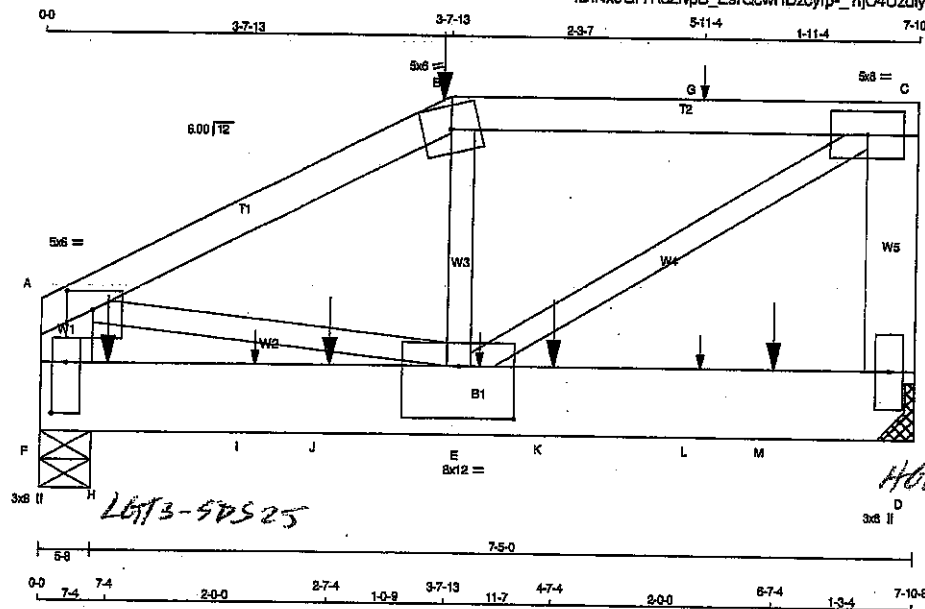
JT	TYPE	PLATES	W	LEN	Y	X
F	BMV1+p	MT20	3.0	8.0		

NOTES: (1)
 1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
 DWG# T-2123978 *HL*

JOB NAME 418361	TRUSS NAME T26	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	Version 8.420 5 Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 07:35:07 2021 Page 1 ID:Nx0GIYRcZlpB_E9rQowHDzcyrp-_7f04UzdlyIAc0nNetsRYvxDxyHr9vIX8zeXyvGI



Scale = 1:18.7

LUMBER			
N. L. & A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
D - C	2x6	DRY	No.2
F - A	2x6	DRY	No.2
F - D	2x8	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B 1	12	SIDE(105.2)
B-C 1	12	SIDE(105.2)
C-D 2	12	TOP
F-A 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 3	4	SIDE(1474.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	8	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
D	6938	0	6938	0	-2181
F	7979	0	7979	150	-2486

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

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 2181 LBS FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT F FOR 2486 LBS FACTORED UPLIFT

PROVIDE FOR 150 LBS FACTORED HORIZONTAL REACTION AT JOINT F

UNFACTORED REACTIONS		1ST LC CASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
D	5110	3072 / 0	871 / 0
F	5885	3512 / 0	1020 / 0

HORIZONTAL REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
F	0 / 0	0 / 0	408 / -2121	1167 / 0	0 / 0
			488 / -2427	1352 / 0	0 / 0

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 4.34 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (31)

CHORDS		MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	CS1 (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	UNBRAC	FR-TO	
A-B	-7115 / 2209	-115.2	-115.2	0.17 (2)	4.34	E-B -817 / 2804
B-G	-6578 / 2099	-115.2	-115.2	0.18 (1)	4.46	E-C -2426 / 7786
G-C	-6576 / 2099	-115.2	-115.2	0.18 (1)	4.46	A-E -1940 / 6462
D-C	-4398 / 1420	0.0	0.0	0.12 (1)	7.81	
F-A	-4580 / 1445	0.0	0.0	0.10 (1)	7.81	
F-H	-135 / 54	-39.5	-39.5	0.33 (3)	6.25	
H-I	-135 / 54	-39.5	-39.5	0.33 (3)	6.25	
I-J	-135 / 54	-39.5	-39.5	0.33 (3)	6.25	
J-E	-135 / 54	-39.5	-39.5	0.33 (3)	6.25	
E-K	-20 / 50	-39.5	-39.5	0.48 (1)	6.25	
K-L	-20 / 50	-39.5	-39.5	0.48 (1)	6.25	
L-M	-20 / 50	-39.5	-39.5	0.48 (1)	6.25	
M-D	-20 / 50	-39.5	-39.5	0.48 (1)	6.25	

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	3-7-13	1	-8	---	FRONT	VERT	DEAD	---	C1
B	3-7-13	1	1	97	BACK	VERT	TOTAL	---	C1
E	3-11-4	26	-26	---	FRONT	VERT	SNOW	---	C1
G	5-11-4	1	-11	97	BACK	VERT	TOTAL	---	C1
H	7-4	-2436	-2436	588	FRONT	VERT	TOTAL	---	C1
I	1-11-4	1	1	---	BACK	VERT	TOTAL	---	C1
J	2-7-4	-2541	-2541	616	FRONT	VERT	TOTAL	---	C1
K	4-7-4	-2541	-2541	616	FRONT	VERT	TOTAL	---	C1
L	5-11-4	1	1	---	BACK	VERT	TOTAL	---	C1
M	6-7-4	-2541	-2541	616	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 33.4 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN GC

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

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2015, ABC 2015
- PART 4 OF CBC 2012 (2015 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.26")
CALCULATED VERT. DEFL. (LL) = L/989 (0.04")
ALLOWABLE DEFL. (TL) = L/180 (0.52")
CALCULATED VERT. DEFL. (TL) = L/989 (0.05")

CSI: TO=0.18/1.00 (B-C-1), BC=0.48/1.00 (D-E-1), WB=0.58/1.00 (C-E-1), SSI=0.81/1.00 (D-E-3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

CONTINUED ON PAGE 2



Structural component only
DWG# T-2123979

JOB NAME 418361	TRUSS NAME T26	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri Jul 23 07:35:07 2021 Page 2 ID:Nx0GIYRoZVpB EgrQcwHDzcvp- ?iQ4UzdjvIAc0rNetsRYvxDxyHrt9vIX8zeXyvGII	

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-p	MT20	5.0	6.0	2.00 2.75
B	TTW-m	MT20	5.0	6.0	
C	TMVW-t	MT20	5.0	8.0	
D	BMV1+p	MT20	3.0	8.0	
E	BMVWW-t	MT20	8.0	12.0	5.50 6.00
F	BMV1+p	MT20	3.0	8.0	5.50 1.50

NOTES- (1)
1) Lateral bracing to be a minimum of 2X4 SPF #2.

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_{pe}$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM, INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE, TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

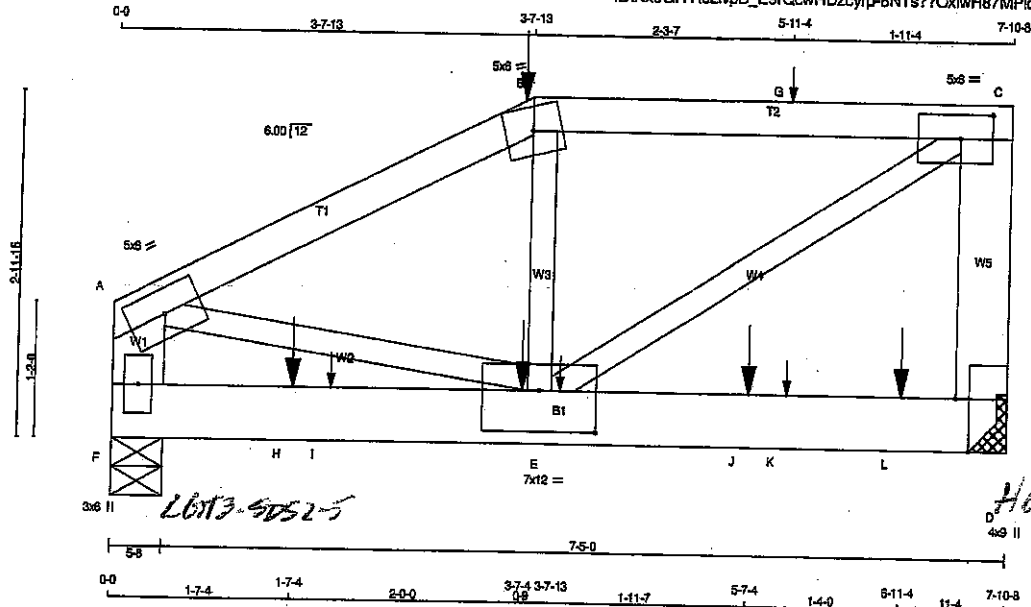
PLATE PLACEMENT TOL = 0.250 inches
PLATE ROTATION TOL = 5.0 Deg.
JSI GRIP = 0.89 (A) (INPUT = 0.90)
JSI METAL = 0.52 (F) (INPUT = 1.00)



Structural component only
DWG# T-2123979 *ML*

JOB NAME 418362	TRUSS NAME T26Z	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:16:18 2021 Page 1
ID:Nx0GIYRcZlvpB_E9rQcwHDzcymp-8NTs??OxIwH87MPld5J5ekCP0EuiPudVTCDaoyvFhh



Scale = 1:18.3

LUMBER

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

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - B	12	SIDE (105.2)
B - C	12	SIDE (105.2)
C - D	12	TOP
F - A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	4	SIDE (236.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
D	VERT	DOWN	HORIZ	UPLIFT
F	8520	0	8520	0
F	6551	0	9551	154
			2037	5-8
			2677	MECHANICAL

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

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 2677 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT F FOR 2037 LBS FACTORED UPLIFT

PROVIDE FOR 154 LBS FACTORED HORIZONTAL REACTION AT JOINT F

UNFACTORED REACTIONS

1ST LOASE	MAX MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERMILIVE WIND DEAD SOIL
D	6274 3776 / 0 1087 / 0 0 / 0 518 / 2603 1431 / 0 0 / 0
F	4824 2903 / 0 821 / 0 0 / 0 417 / 1986 1100 / 0 0 / 0

HORIZONTAL REACTIONS						
F	—	0 / 0	0 / 0	0 / 0	110 / 47	0 / 0

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 4.15 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (31)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	-7834 / 2436	-115.2 -115.2	0.19 (2)	4.15	E-B	-916 / 3128	0.23 (3)
B-G	-7232 / 2307	-115.2 -115.2	0.20 (1)	4.27	E-C	-2691 / 8690	0.85 (1)
G-C	-7232 / 2307	-115.2 -115.2	0.20 (1)	4.27	A-E	-2153 / 7140	0.54 (1)
D-C	-4938 / 1590	0.0 0.0	0.15 (1)	7.88			
F-A	-5133 / 1624	0.0 0.0	0.11 (1)	7.57			
F-H	-137 / 58	-39.5 -39.5	0.58 (3)	6.25			
H-I	-137 / 58	-39.5 -39.5	0.58 (3)	6.25			
I-E	-137 / 58	-39.5 -39.5	0.58 (3)	6.25			
E-J	-20 / 52	-39.5 -39.5	0.77 (1)	6.25			
J-K	-20 / 52	-39.5 -39.5	0.77 (1)	6.25			
K-L	-20 / 52	-39.5 -39.5	0.77 (1)	6.25			
L-D	-20 / 52	-39.5 -39.5	0.77 (1)	6.25			

SPECIFIED CONCENTRATED LOADS (LBS)

LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
JT	3-7-13	-6	-6	—	FRONT	VERT	DEAD	C1
B	3-7-13	1	1	97	BACK	VERT	TOTAL	C1
B	3-7-13	-26	-26	—	FRONT	VERT	SNOW	C1
E	3-7-4	-2541	-2541	616	FRONT	VERT	TOTAL	C1
E	3-11-4	1	1	—	BACK	VERT	TOTAL	C1
G	5-11-4	1	-11	97	BACK	VERT	TOTAL	C1
H	1-7-4	-2541	-2541	616	FRONT	VERT	TOTAL	C1
I	1-11-4	1	1	—	BACK	VERT	TOTAL	C1
J	5-7-4	-2541	-2541	616	FRONT	VERT	TOTAL	C1
K	5-11-4	1	1	—	BACK	VERT	TOTAL	C1
L	6-11-4	-2542	-2542	616	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 3 X 37 = 110 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN./C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF CBC 2015, ABC 2015
- PART 4 OF CBC 2012 (2015 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/699 (0.07")
ALLOWABLE DEFL.(TL) = L/180 (0.52")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.20/1.00 (B-C:1), BC=0.77/1.00 (D-E:1), WB=0.85/1.00 (C-E:1), SSI=0.72/1.00 (D-E:1)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00

LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

CONTINUED ON PAGE 2



Structural component only
DWG# T-2123991

JOB NAME 418362	TRUSS NAME T26Z	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:16:18 2021 Page 2		ID:Nx0GIYRcZlvpB_E9rQowHDzcyrd-BNTs??OxiwH87MPid5U5ekCP0EulPudVTCDsoyvFh	

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	8.0		
B	TTW-m	MT20	5.0	8.0		
C	TMVW-t	MT20	5.0	8.0	2.50	3.50
D	BMV1-t	MT20	4.0	9.0	Edge	1.50
E	BMVWW-t	MT20	7.0	12.0	4.25	6.00
F	BMV1-p	MT20	3.0	6.0		

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

NOTES- (1)

- 1) Lateral braces to be a minimum of 2X4 SPF #2.

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(b)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (C) (INPUT = 0.90)

JSI METAL = 0.47 (A) (INPUT = 1.00)

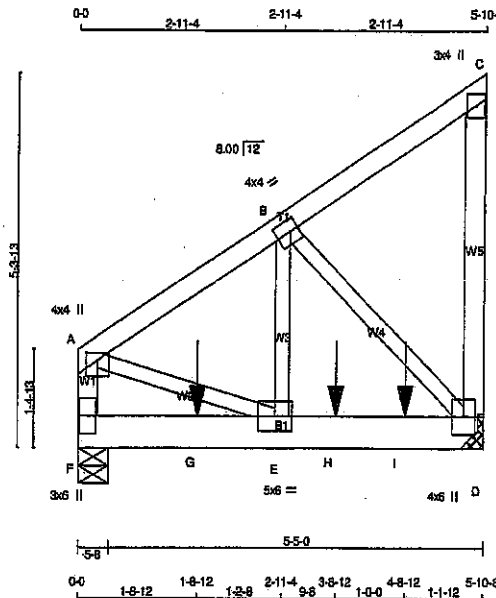


Structural component only
DWG# T-2123991 *ML*

JOB NAME 418361	TRUSS NAME T28	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:00:23 2021 Page 1
ID:Nx0GIYRcZlvpB_E9rQcwHDzcymp-8Mf60IRUvzQjWYv?hyOZ4ce8d_GxTrpzSFBEyvU_c



Scale = 1/20.0

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

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25 2.00
B	TMVW-t	MT20	4.0	4.0	2.00 1.50
C	TMVW+p	MT20	3.0	4.0	
D	BMVW-t+p	MT20	4.0	6.0	
E	BMVW-t	MT20	5.0	6.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	1109	0	1109	0
D	1399	0	1399	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F	782	526 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	
D	986	664 / 0	0 / 0	0 / 0	0 / 0	322 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	LC1 (LBS)	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	LC1 (LBS)	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	LC1 (LBS)
FR-TO										
F-A	-952 / 0	0.0	0.0	0.05 (1)	7.61	A-E	0 / 887	0.11 (1)		
A-B	-994 / 0	-61.8	-61.8	0.07 (1)	6.25	E-B	0 / 1079	0.13 (1)		
B-C	-18 / 0	-61.8	-61.8	0.08 (1)	6.25	B-D	-1192 / 0	0.17 (1)		
D-C	-107 / 0	0.0	0.0	0.02 (1)	7.61					
F-G	0 / 0	-18.5	-18.5	0.14 (1)	10.00					
G-E	0 / 0	-18.5	-18.5	0.14 (1)	10.00					
E-H	0 / 840	-18.5	-18.5	0.24 (1)	10.00					
H-I	0 / 840	-18.5	-18.5	0.24 (1)	10.00					
I-D	0 / 840	-18.5	-18.5	0.24 (1)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIRL	TYPE	HEEL	CONN.
G	1-8-12	-437	-437	---	FRONT	VERT	TOTAL	---	C1
H	3-8-12	-437	-437	---	FRONT	VERT	TOTAL	---	C1
I	4-8-12	-437	-437	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.01")

CSI: TC=0.07/1.00 (A-B:1), BC=0.24/1.00 (D-E:1), WS=0.17/1.00 (B-D:1), SS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

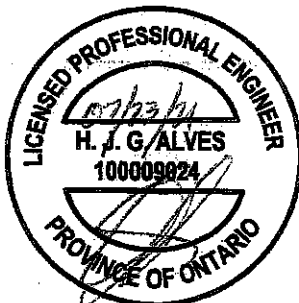
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.64 (B) (INPUT = 0.90)
JSI METAL = 0.19 (D) (INPUT = 1.00)



Structural component only
DWG# T-2123980

CONTINUED ON PAGE 2

JOB NAME 418361	TRUSS NAME T28	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 18:00:29 2021 Page 2
ID:Nx0GIYRcZlvpB E9rQowHDzcymp-6Mrtb0IRUvzQjIWWv7hyOZ4ce8d GxTtpzSFBewU c

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

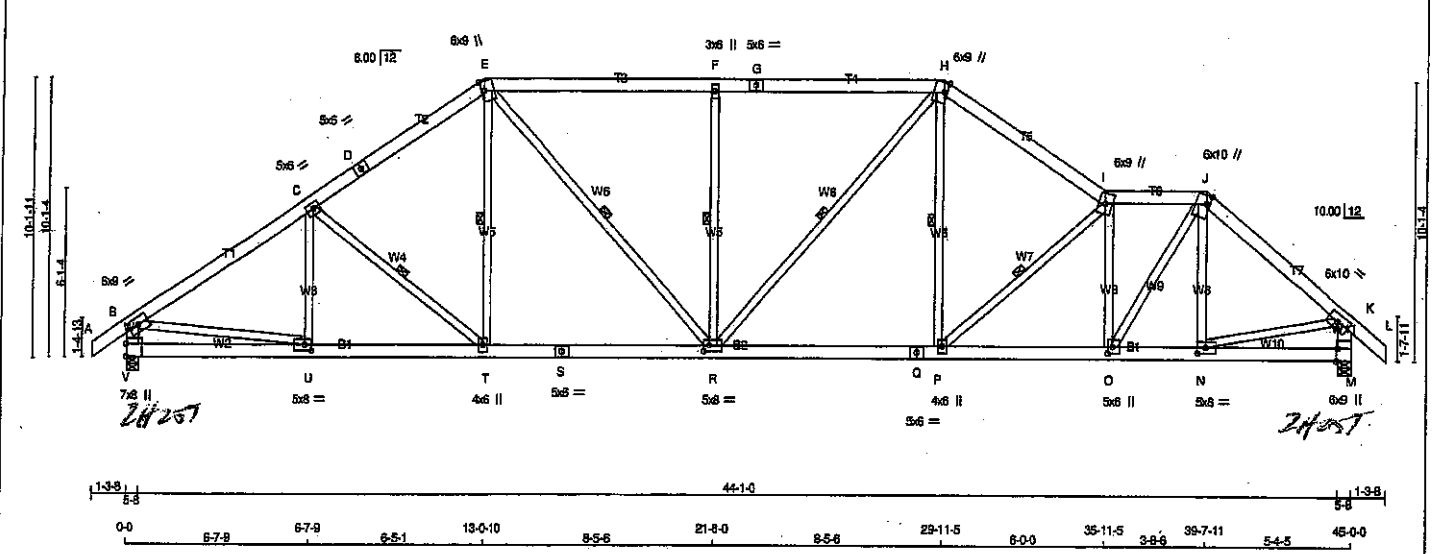
NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2123980 212

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
418361	T29	1	1	GREENPARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 M/Tek Industries, Inc. Fri Jul 23 07:34:38 2021 Page 1			
		ID: Nx0GIYRcZlvpB_E9rCQwHDzyp-KQPIJ98mSoJtC9iHA2s3mRCpIF?iYbeeWox6iyvGII			

1-3-9 0-0 6-7-9 6-7-9 6-5-1 13-0-10 13-4-2 8-1-14 21-6-0 8-1-14 29-7-13 29-11-5 6-0-0 35-11-5 3-6-6 39-7-11 5-4-5 45-0-0 48-3-8 1-3-9 1-3-9
Scale = 1:76.5



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x6	DRY No.2	SPF
D - E	2x6	DRY No.2	SPF
E - G	2x6	DRY No.2	SPF
G - H	2x6	DRY No.2	SPF
H - I	2x6	DRY No.2	SPF
I - J	2x6	DRY No.2	SPF
J - L	2x6	DRY No.2	SPF
V - B	2x6	DRY No.2	SPF
M - K	2x6	DRY No.2	SPF
V - S	2x6	DRY No.2	SPF
S - Q	2x6	DRY No.2	SPF
Q - M	2x6	DRY No.2	SPF
ALL WEBS	2x4	DRY No.2	SPF
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN Y	X
B TMW-t	MT20	6.0	9.0	
C TMW-t	MT20	5.0	6.0	
D TS-t	MT20	5.0	6.0	
E TTW-t	MT20	6.0	9.0	4.25 1.50
F TMW-t	MT20	5.0	6.0	
G TS-t	MT20	5.0	6.0	
H TTW-t	MT20	6.0	9.0	4.25 1.50
I TTW-t	MT20	6.0	9.0	
J TTW-t	MT20	6.0	10.0	3.75 1.50
K TMW-t	MT20	6.0	10.0	
M BMV-t	MT20	6.0	9.0	Edge 0.50
N BMW-t	MT20	5.0	8.0	2.50 3.50
O BMW-t	MT20	5.0	6.0	2.75 2.00
P BMW-t	MT20	4.0	6.0	
Q BS-t	MT20	5.0	6.0	
R BMW-t	MT20	5.0	8.0	2.50 2.50
S BS-t	MT20	5.0	6.0	
T BMW-t	MT20	4.0	6.0	
U BMW-t	MT20	5.0	8.0	2.50 3.00
V BMV-t	MT20	7.0	8.0	5.50

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
V	3645	0		3645	443	-1109	5-8	5-8	
M	3648	0		3648	0	-1126	5-8	5-8	

PROVIDE ANCHORAGE AT BEARING JOINT V FOR 1109 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT M FOR 1126 LBS FACTORED UPLIFT

PROVIDE FOR 443 LBS FACTORED HORIZONTAL REACTION AT JOINT V

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
V	2691	1599 / 0	473 / 0	0 / 0	89 / -1091	620 / 0	0 / 0		
M	2693	1600 / 0	473 / 0	0 / 0	136 / -1103	620 / 0	0 / 0		

HORIZONTAL REACTIONS									
V	0 / 0	0 / 0	0 / 0	316 / -315	0 / 0	0 / 0			

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

BRACING

MAX UNBRACED TOP CHORD LENGTH = 3.19 FT.
MAX UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-T, E-T, H-P, H-P, H-R, E-R, F-R.

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: (18)

CHORDS		FACTORED		W E B S		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	CS1 (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX (LC)	
FR-TO		FROM	TO			FR-TO			
A-B	0 / 49	-115.2	-115.2	0.09 (2)	10.00	U-C	-348 / 209	0.11 (8)	
B-C	-4543 / 1411	-115.2	-115.2	0.58 (2)	3.61	C-T	-680 / 458	0.23 (2)	
C-D	-4098 / 1424	-115.2	-115.2	0.54 (2)	3.80	T-E	-231 / 736	0.12 (2)	
D-E	-4098 / 1424	-115.2	-115.2	0.54 (2)	3.80	P-H	-323 / 1102	0.18 (3)	
E-F	-4174 / 1519	-115.2	-115.2	0.87 (1)	3.19	P-I	-1155 / 567	0.38 (3)	
F-G	-4175 / 1519	-115.2	-115.2	0.87 (1)	3.19	O-I	-2199 / 739	0.80 (1)	
G-H	-4175 / 1519	-115.2	-115.2	0.87 (1)	3.19	O-J	-808 / 2794	0.44 (1)	
H-I	-4384 / 1508	-115.2	-115.2	0.52 (3)	3.71	N-J	-388 / 173	0.14 (8)	
I-J	-4413 / 1516	-115.2	-115.2	0.22 (1)	3.97	B-U	-995 / 2853	0.82 (1)	
J-K	-3886 / 1220	-115.2	-115.2	0.39 (1)	4.04	N-K	-708 / 3020	0.49 (1)	
K-L	0 / 58	-115.2	-115.2	0.09 (1)	10.00	R-H	-412 / 1162	0.38 (13)	
V-B	-3526 / 1129	0.0	0.0	0.23 (1)	5.68	E-R	-559 / 1487	0.52 (1)	
M-K	-3559 / 1148	0.0	0.0	0.23 (1)	5.66	R-F	-1183 / 620	0.54 (2)	
V-U	-425 / 433	-39.5	-39.5	0.14 (4)	6.25				
U-T	-1218 / 3818	-39.5	-39.5	0.58 (1)	6.25				
T-S	-866 / 3375	-39.5	-39.5	0.54 (1)	6.25				
S-R	-866 / 3375	-39.5	-39.5	0.54 (1)	6.25				
R-Q	-780 / 3648	-39.5	-39.5	0.57 (1)	6.25				
Q-P	-780 / 3648	-39.5	-39.5	0.57 (1)	6.25				
P-O	-1119 / 4470	-39.5	-39.5	0.65 (1)	6.25				
O-N	-868 / 2851	-39.5	-39.5	0.42 (1)	6.25				
N-M	-10 / 22	-39.5	-39.5	0.09 (17)	6.25				

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (8)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN./C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 2.00/12

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2018, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEF.(LL) = L/360 (1.50')
CALCULATED VERT. DEF.(LL) = L/998 (0.19')
ALLOWABLE DEF.(TL) = L/180 (8.00')
CALCULATED VERT. DEF.(TL) = L/999 (0.27')

CSI: TO=0.87/1.00 (F-H), BO=0.66/1.00 (O-P), WB=0.60/1.00 (H-O), SS=0.38/1.00 (E-F)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (U) (INPUT = 0.99)
JSI METAL = 0.77 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123981 1/2

JOB NAME 418361	TRUSS NAME T29	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.426 8-Jan-21 2021 Mitek Industries, Inc. Fri Jul 23 07:34:38 2021 Page 2

ID:Nx0GIYRcZlvB E9rQowHDzcyo-KOPIJ98mSoJtC9IH2s3mRCpIF?YibeeWcx6lvGII

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pg} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



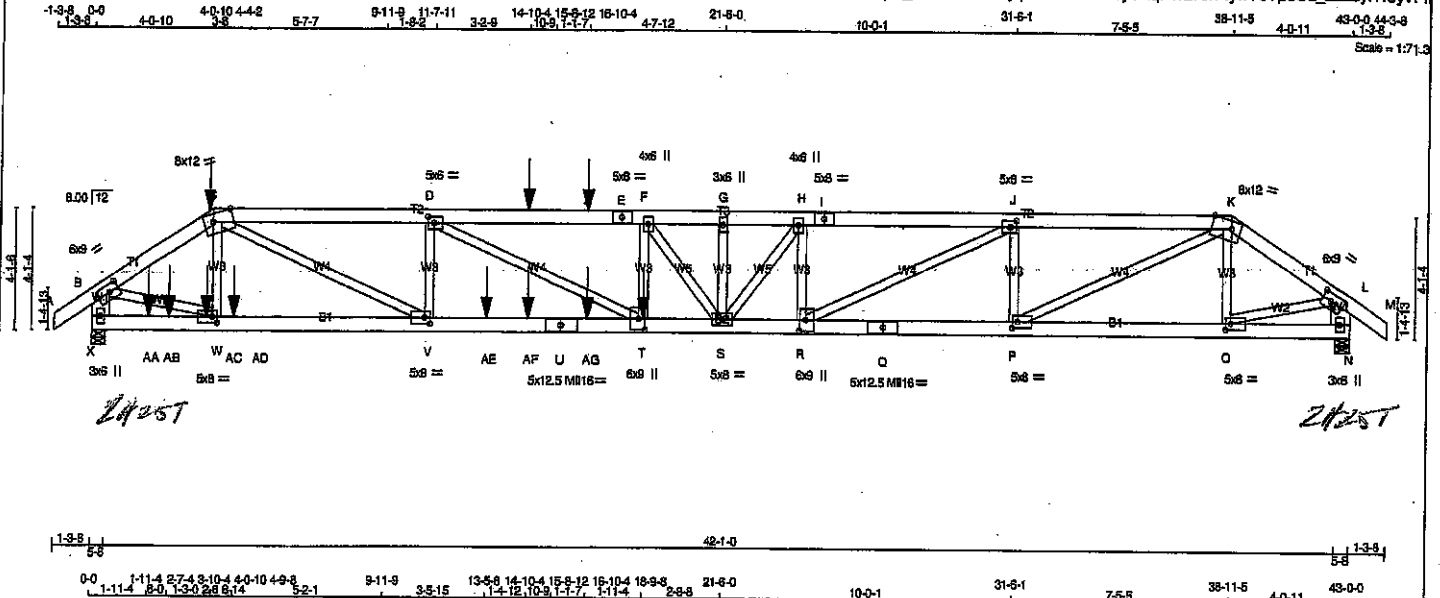
Structural component only
DWG# T-2123981 *3/2*

JOB NAME 418362	TRUSS NAME T30	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESG.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:15:13 2021 Page 1

ID:Nx0GIYRcZvpB_E9rQowHDzyp-Xt1HMmc90y5NqMxGKx14ywY0Tp3Ca_z2ZsyH43yvFf



LUMBER	N. L. & A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x6	DRY	1650F 1.5E	SPF	
C - E	2x6	DRY	1650F 1.5E	SPF	
E - I	2x6	DRY	1650F 1.5E	SPF	
I - K	2x6	DRY	1650F 1.5E	SPF	
K - M	2x6	DRY	1650F 1.5E	SPF	
X - B	2x4	DRY	No.2	SPF	
N - L	2x4	DRY	No.2	SPF	
X - U	2x6	DRY	2100F 1.8E	SPF	
U - Q	2x6	DRY	2100F 1.8E	SPF	
Q - N	2x6	DRY	2100F 1.8E	SPF	

ALL WEBS 2x4 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 2	12	SIDE(140.3)
C - E 2	12	SIDE(70.1)
E - I 2	12	TOP
I - K 2	12	TOP
K - M 2	12	TOP
X - B 2	12	TOP
N - L 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
X - U 2	12	SIDE(227.4)
U - Q 2	12	SIDE(227.4)
Q - N 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x4 1	8	SIDE(307.0)
T - F 1	5	
R - H 1	5	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	HORZ	UPLIFT
X	6884	0	8913	-198
N	4927	0	4967	-1139

PROVIDE ANCHORAGE AT BEARING JOINT X FOR 1110 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1139 LBS FACTORED UPLIFT

PROVIDE FOR 198 LBS FACTORED HORIZONTAL REACTION AT JOINT X

UNFACTORED REACTIONS	1ST CASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW
X	4971	3152 / 0
N	3580	2237 / 0

HORIZONTAL REACTIONS	X	0 / 0	0 / 0	0 / 0	141 / -141	0 / 0	0 / 0
----------------------	---	-------	-------	-------	------------	-------	-------

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 3.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (18)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO					FR-TO			
A - B	0 / 49	-115.2	-115.2	0.03 (2)	W - C	-251 / 243	0.02 (8)	
B - C	-8794 / 1332	-115.2	-115.2	0.11 (2)	O - K	-795 / 250	0.07 (3)	
C - D	-15695 / 2654	-115.2	-115.2	0.40 (1)	B - W	-978 / 7463	0.68 (1)	
D - Y	-19329 / 3243	-115.2	-115.2	0.54 (1)	Q - L	-1008 / 5207	0.46 (3)	
Y - Z	-19329 / 3243	-115.2	-115.2	0.54 (1)	C - V	-1694 / 9374	0.83 (3)	
Z - E	-19329 / 3243	-115.2	-115.2	0.54 (1)	V - D	-2825 / 819	0.24 (3)	
E - F	-19329 / 3243	-115.2	-115.2	0.54 (1)	D - T	-711 / 4107	0.36 (5)	
F - G	-18128 / 3244	-115.2	-115.2	0.29 (1)	R - H	-2095 / 358	0.18 (2)	
G - H	-18128 / 3244	-115.2	-115.2	0.29 (1)	T - F	0 / 883	0.08 (2)	
H - I	-17053 / 3249	-115.2	-115.2	0.43 (1)	S - H	-19 / 1827	0.16 (2)	
I - J	-17053 / 3249	-115.2	-115.2	0.43 (1)	F - S	-2042 / 110	0.24 (2)	
J - K	-12363 / 2573	-115.2	-115.2	0.30 (1)	S - G	-43 / 17	0.00 (2)	
K - L	-8136 / 1372	-115.2	-115.2	0.08 (14)	P - K	-1696 / 8173	0.79 (13)	
L - M	0 / 49	-115.2	-115.2	0.03 (3)	R - J	-684 / 5299	0.47 (2)	
X - B	-6894 / 1128	0.0	0.0	0.19 (2)	P - J	-3312 / 807	0.28 (2)	
N - L	-4943 / 1157	0.0	0.0	0.13 (3)				
X - AA	-180 / 189	-39.5	-39.5	0.08 (3)				
AA - AB	-180 / 189	-39.5	-39.5	0.08 (3)				
AB - AC	-180 / 189	-39.5	-39.5	0.08 (3)				
AC - W	-180 / 189	-39.5	-39.5	0.08 (3)				
W - AD	-1013 / 7289	-39.5	-39.5	0.32 (1)				
AD - V	-1013 / 7289	-39.5	-39.5	0.32 (1)				
V - AE	-2477 / 15686	-39.5	-39.5	0.67 (1)				
AE - AF	-2477 / 15686	-39.5	-39.5	0.67 (1)				
AF - U	-2477 / 15686	-39.5	-39.5	0.67 (1)				
U - AG	-2477 / 15686	-39.5	-39.5	0.67 (1)				
AG - T	-2477 / 15686	-39.5	-39.5	0.67 (1)				
T - S	-3066 / 19325	-39.5	-39.5	0.56 (1)				
S - R	-3057 / 17053	-39.5	-39.5	0.52 (1)				
R - Q	-2445 / 12363	-39.5	-39.5	0.39 (1)				
Q - P	-2445 / 12363	-39.5	-39.5	0.39 (1)				
P - O	-957 / 5082	-39.5	-39.5	0.18 (1)				
O - N	-8 / 18	-39.5	-39.5	0.05 (17)				

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 = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF CBC 2018, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.43")
CALCULATED VERT. DEFL.(LL) = L/899 (0.51")
ALLOWABLE DEFL.(TL) = L/600 (2.87")
CALCULATED VERT. DEFL.(TL) = L/888 (0.75")

CSI: TC=0.54/1.00 (D-F:1), SC=0.67/1.00 (T-V:1),
WB=0.83/1.00 (C-V:3), SS=0.37/1.00 (V-W:3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HELPS OFF

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PL)

MT20	650	371	1747	788	1987	1873
MI16	438	302	2547	1258	4283	1816

CONTINUED ON PAGE 2



Structural component only
DWG# T-2123992

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
418362	T30	1	2	GREENPARK HOMES	
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri Jul 23 08:18:13 2021 Page 2	
				ID:Nx0GIYRcZlvpB E9rGawHDzcyro-Xt1HMmc90y5NqMxGKx14ywY0Tp3Ca z2ZsyH43yWFi	

PLATES (table is in inches)						SPECIFIED CONCENTRATED LOADS (LBS)						PLATE PLACEMENT TOL = 0.250 inches			
JT	TYPE	PLATES	W	LEN	Y X	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	TMVW-t	MT20	8.0	9.0	3.00 3.75	C	4-0-10	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	TTWW-m	MT20	8.0	12.0	Edge 8.25	C	4-0-10	-65	-105	---	BACK	VERT	TOTAL	---	C1
D	TMVW-t	MT20	5.0	6.0	2.50 2.50	C	4-0-10	-171	-171	---	FRONT	VERT	SNOW	---	C1
E	TS-t	MT20	5.0	8.0		T	18-9-8	-1384	-1384	---	BACK	VERT	TOTAL	---	C1
F	TMVW-t	MT20	4.0	6.0		Y	14-10-4	-60	-60	---	BACK	VERT	TOTAL	---	C1
G	TMVW-t	MT20	4.0	6.0		Z	16-10-4	-60	-60	---	BACK	VERT	TOTAL	---	C1
H	TMVW-t	MT20	4.0	6.0		AA	1-11-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
I	TS-t	MT20	5.0	8.0		AB	2-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
J	TMVW-t	MT20	5.0	6.0	2.50 2.50	AC	3-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
K	TTWW-m	MT20	8.0	12.0	Edge 8.25	AD	4-9-8	-771	-771	---	BACK	VERT	TOTAL	---	C1
L	TMVW-t	MT20	6.0	9.0	3.00 3.75	AE	13-5-8	-771	-771	---	BACK	VERT	TOTAL	---	C1
N	BMV1-p	MT20	3.0	6.0		AF	14-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
O	BMVW-t	MT20	5.0	8.0	2.50 2.00	AG	16-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
P	BMVW-t	MT20	5.0	8.0	2.50 2.25										
Q	BS-t	MT16	5.0	12.5											
R	BMVW-t	MT20	8.0	9.0	4.50 2.50										
S	BMVW-t	MT20	5.0	8.0											
T	BMVW-t	MT20	6.0	9.0	4.50 2.50										
U	BS-t	MT16	5.0	12.5											
V	BMVW-t	MT20	5.0	8.0	2.50 2.25										
W	BMVW-t	MT20	5.0	8.0	2.50 2.00										
X	BMV1-p	MT20	3.0	6.0											

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

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(9)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE MAIN WIND FORCE RESISTING SYSTEM. INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

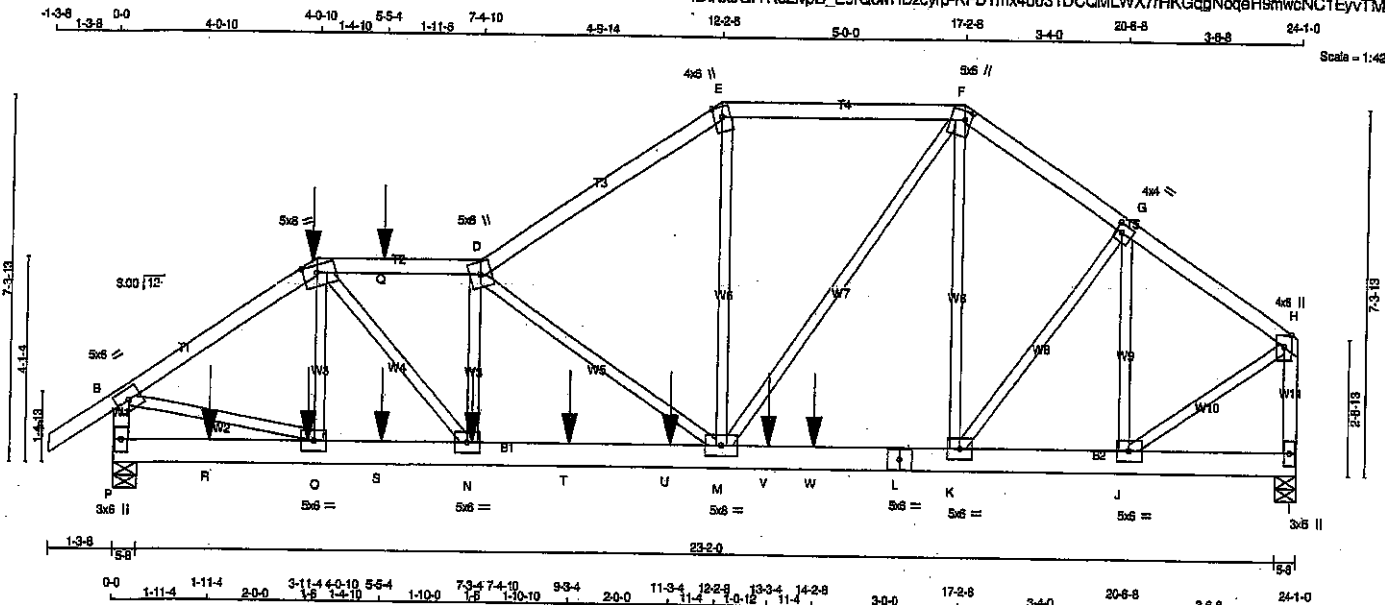


Structural component only
DWG# T-2123992

JOB NAME 418362	TRUSS NAME T31	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:43:31 2021 Page 1
ID:Nx0GIYRcZlpB_E9rQwHDzcyrp-KFD1mx4o031DCQMLWX7/HKQgNoqHsmwcNC1EyvTMA

Scale = 1:42.3



TOTAL WEIGHT = 2 X 125 = 250 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
I - J	2x4	DRY	No.2
J - K	2x4	DRY	No.2
K - L	2x4	DRY	No.2
L - M	2x4	DRY	No.2

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 1	12	SIDE(61.0)
C-D 1	12	SIDE(61.0)
D-E 1	12	TOP
E-F 1	12	TOP
F-G 1	12	TOP
G-H 1	12	TOP
H-I 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
P-L 2	12	SIDE(183.1)
L-I 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
P	3369	0	3359	0	5-8	5-8	
I	2887	0	2887	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
P	2366	1608 / 0	0 / 0	0 / 0	758 / 0	0 / 0	
I	2035	1373 / 0	0 / 0	0 / 0	682 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	
A-B	0 / 35	-91.8 -91.8 0.07 (1)	10.00	C-C	-615 / 0
B-C	-3969 / 0	-91.8 -91.8 0.22 (1)	4.58	C-N	0 / 2647
C-Q	-5016 / 0	-91.8 -91.8 0.25 (1)	4.09	N-D	-1528 / 0
Q-D	-5016 / 0	-91.8 -91.8 0.25 (1)	4.09	D-M	-1998 / 0
D-E	-4162 / 0	-91.8 -91.8 0.31 (1)	4.40	M-E	0 / 1859
E-F	-3491 / 0	-91.8 -91.8 0.28 (1)	4.73	F-F	0 / 1590
F-G	-3118 / 0	-91.8 -91.8 0.13 (1)	5.13	K-F	0 / 81
G-H	-2421 / 0	-91.8 -91.8 0.11 (1)	5.88	K-G	0 / 917
P-B	-3312 / 0	0.0 0.0 0.18 (1)	6.40	J-G	-1498 / 0
I-H	-2818 / 0	0.0 0.0 0.20 (1)	6.83	B-O	0 / 3390
				J-H	0 / 2430
P-R	0 / 0	-18.5 -18.5 0.03 (4)	10.00		
R-O	0 / 0	-18.5 -18.5 0.03 (4)	10.00		
O-S	0 / 3279	-18.5 -18.5 0.28 (1)	10.00		
S-N	0 / 3279	-18.5 -18.5 0.28 (1)	10.00		
N-T	0 / 5059	-18.5 -18.5 0.68 (1)	10.00		
T-U	0 / 5059	-18.5 -18.5 0.68 (1)	10.00		
U-M	0 / 5059	-18.5 -18.5 0.68 (1)	10.00		
M-V	0 / 2574	-18.5 -18.5 0.58 (1)	10.00		
V-W	0 / 2574	-18.5 -18.5 0.58 (1)	10.00		
W-L	0 / 2574	-18.5 -18.5 0.58 (1)	10.00		
L-K	0 / 2574	-18.5 -18.5 0.58 (1)	10.00		
K-J	0 / 2030	-18.5 -18.5 0.33 (1)	10.00		
J-I	0 / 0	-18.5 -18.5 0.05 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	4-9-11	-40	-40	FRONT	VERT.	DEAD		C1
C	4-9-10	-81	-81	FRONT	VERT.	TOTAL		C1
C	4-0-11	-171	-171	FRONT	VERT.	TOTAL		C1
N	7-3-4	-245	-245	FRONT	VERT.	TOTAL		C1
O	3-11-4	-21	-21	FRONT	VERT.	TOTAL		C1
Q	5-5-4	-76	-76	FRONT	VERT.	TOTAL		C1
R	1-11-4	-21	-21	FRONT	VERT.	TOTAL		C1
S	5-5-4	-21	-21	FRONT	VERT.	TOTAL		C1
T	9-3-4	-253	-253	FRONT	VERT.	TOTAL		C1
U	11-3-4	-253	-253	FRONT	VERT.	TOTAL		C1
V	13-3-4	-253	-253	FRONT	VERT.	TOTAL		C1
W	14-2-8	-1000	-1000	FRONT	VERT.	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.31/1.00 (D-E:1), BC=0.68/1.00 (M-N:1),
WB=0.68/1.00 (D-M:1), SS=0.42/1.00 (K-M:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00
COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.89 (F) (INPUT = 0.80)

JSI METAL=0.58 (H) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2123993

JOB NAME 418362	TRUSS NAME T31	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Thu Jul 22 18:43:31 2021 Page 2 ID:Nx0GIYRcZlvpB E9rQcwHDzcytp-KFD1mx4o031DCQMLWX7rHKGggNogeH9mwcNC1EvvTMA	

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	5.0	6.0	
C	TTWW-m	MT20	5.0	6.0	1.75 3.25
D	TTWW+m	MT20	5.0	6.0	
E	TTW+m	MT20	4.0	6.0	Edge
F	TTWW+m	MT20	5.0	6.0	2.00 1.50
G	TMVW-t	MT20	4.0	4.0	2.00 1.50
H	TMVW+p	MT20	4.0	6.0	Edge
I	BMV1+p	MT20	3.0	6.0	
J, K, N, O					
J	BMWW-t	MT20	5.0	6.0	
L	BS-t	MT20	5.0	6.0	
M	BMWW-t	MT20	5.0	6.0	
P	BMV1+p	MT20	3.0	6.0	

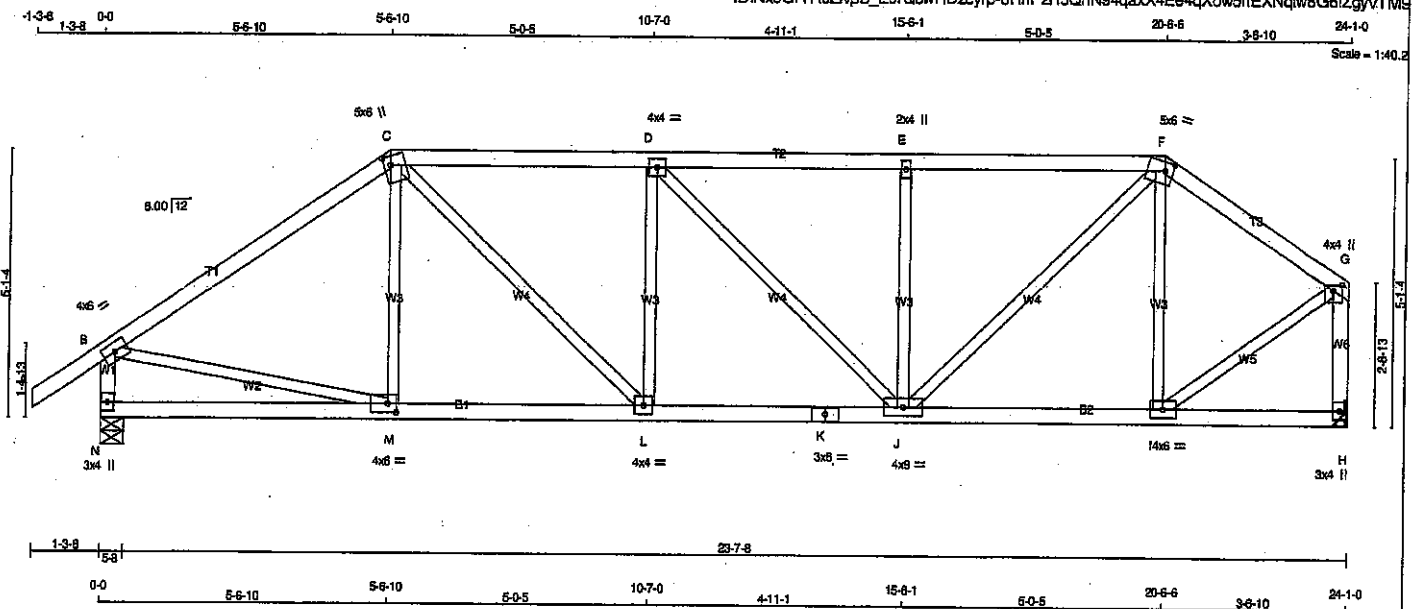
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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



Structural component only
DWG# T-2123993 *W*



TOTAL WEIGHT = 101 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - C	2x4	DRY No.2
C - F	2x4	DRY No.2
F - G	2x4	DRY No.2
N - B	2x4	DRY No.2
H - G	2x4	DRY No.2
N - K	2x4	DRY No.2
K - H	2x4	DRY No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	8.0		
C	TTWW-m	MT20	5.0	8.0	2.00	1.50
D	TMVW-t	MT20	4.0	4.0		
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	8.0	2.00	1.75
G	TMVW-p	MT20	4.0	4.0	1.25	2.00
H	BMV1-p	MT20	3.0	4.0		
I	BMVW-t	MT20	4.0	8.0		
J	BMVW-w	MT20	4.0	8.0		
K	BS-t	MT20	3.0	8.0		
L	BMVW-t	MT20	4.0	4.0		
M	BMVW-t	MT20	4.0	8.0	2.00	2.00
N	BMV1-p	MT20	3.0	4.0		

NOTES (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
N	1484	0	1454	0
H	1328	0	1328	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1026	886 / 0	0 / 0	0 / 0	0 / 0	0 / 0	339 / 0	0 / 0
H	939	816 / 0	0 / 0	0 / 0	0 / 0	0 / 0	323 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX. FACTORED	MEMB.	MAX. FACTORED	FACTORED	MAX. FACTORED
	FORCE (LBS)	VERT. LOAD (LBS)	LC1 (LBS)		FORCE (LBS)	MAX. FACTORED	MAX. FACTORED
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8	10.00	M-C	-116 / 47	0.04 (1)
B-C	-1441 / 0	-91.8	-91.8	0.59 (1)	C-L	0 / 681	0.15 (1)
C-D	-1887 / 0	-91.8	-91.8	0.36 (1)	D-J	-385 / 0	0.15 (1)
D-E	-1574 / 0	-91.8	-91.8	0.35 (1)	E-F	-158 / 0	0.14 (1)
E-F	-1574 / 0	-91.8	-91.8	0.35 (1)	F-G	-494 / 0	0.19 (1)
F-G	-1033 / 0	-91.8	-91.8	0.22 (1)	G-H	0 / 1005	0.23 (1)
G-H	-1410 / 0	0.0	0.0	0.15 (1)	H-I	-474 / 0	0.18 (1)
H-I	-1304 / 0	0.0	0.0	0.19 (1)	I-G	0 / 1219	0.27 (1)
I-G					G-M	0 / 1027	0.23 (1)
N-M	0 / 0	-18.5	-18.5	0.13 (4)			
M-L	0 / 1195	-18.5	-18.5	0.26 (1)			
L-K	0 / 1687	-18.5	-18.5	0.31 (1)			
K-J	0 / 1687	-18.5	-18.5	0.31 (1)			
J-I	0 / 847	-18.5	-18.5	0.19 (1)			
I-H	0 / 0	-18.5	-18.5	0.08 (4)			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.59/1.00 (B-C:1), BC=0.31/1.00 (J-L:1), WB=0.27/1.00 (B-M:1), SS=0.21/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

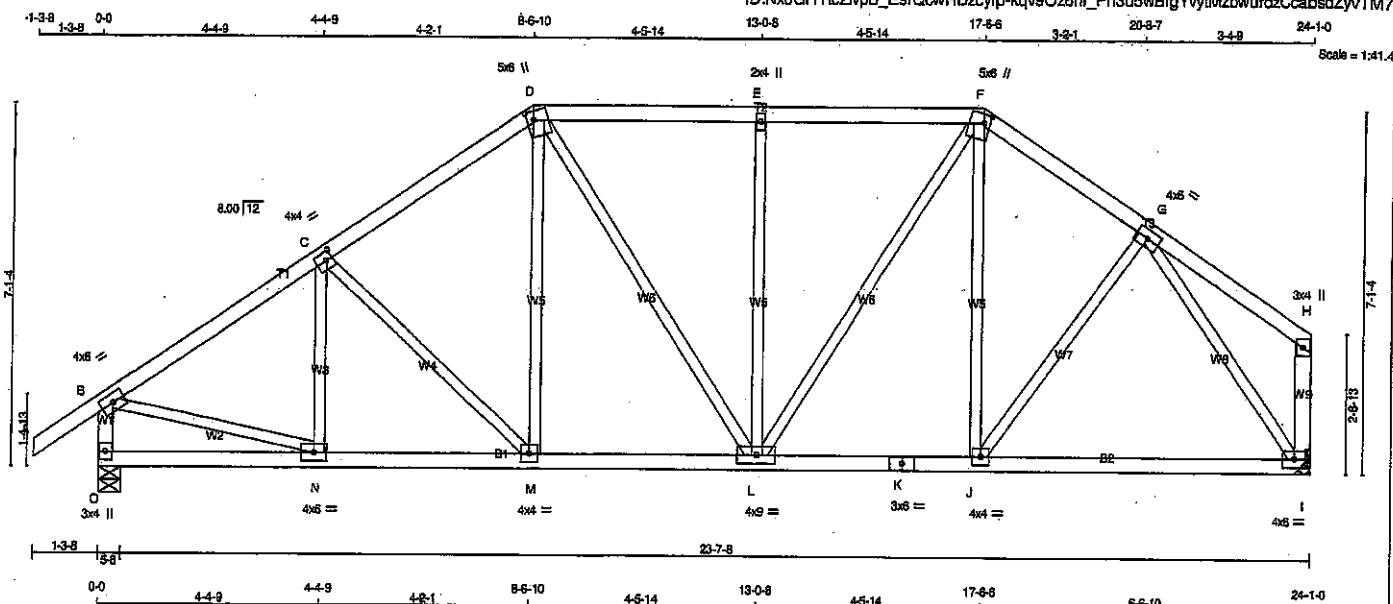
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (F) (INPUT= 0.59)
JSI METAL= 0.53 (K) (INPUT= 1.00)



Structural component only
DWG# T-2123994

JOB NAME 418362	TRUSS NAME T34	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 16:43:34 2021 Page 1	
				ID: Nk0GIYRcZlvpB_E9rQowHDzcyip-kqv9Oz8hl_Pn3u5wBfgYvytMzbwurdzCcabsdZyvTM7	



TOTAL WEIGHT = 112 lb

LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0		
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTTWw-m	MT20	5.0	8.0	2.00	1.50
E	TMVW-t	MT20	2.0	4.0		
F	TTTWw-m	MT20	5.0	6.0	2.00	1.50
G	TMVW-t	MT20	4.0	6.0		
H	TMVW-t	MT20	3.0	4.0		
I	BMVW-t	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	4.0		
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	4.0	9.0		
M	BMVW-t	MT20	4.0	4.0		
N	BMVW-t	MT20	4.0	6.0		
O	BMV-t	MT20	3.0	4.0		

NOTES:

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
O	1454	0	1454	0
I	1328	0	1328	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1026	686 / 0	0 / 0	0 / 0	0 / 0	0 / 0	339 / 0	0 / 0
I	939	616 / 0	0 / 0	0 / 0	0 / 0	0 / 0	323 / 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 = 5.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	N-C	-224 / 0	0.08 (1)	
B-C	-1470 / 0	-91.8 -91.8	0.24 (1)	C-M	-225 / 0	0.13 (1)	
C-D	-1325 / 0	-91.8 -91.8	0.25 (1)	M-D	0 / 241	0.05 (1)	
D-E	-1199 / 0	-91.8 -91.8	0.25 (1)	D-L	0 / 211	0.05 (1)	
E-F	-1199 / 0	-91.8 -91.8	0.25 (1)	L-E	-501 / 0	0.44 (1)	
F-G	-1155 / 0	-91.8 -91.8	0.13 (1)	L-F	0 / 484	0.10 (1)	
G-H	0 / 18	-91.8 -91.8	0.16 (1)	J-F	-31 / 55	0.03 (1)	
O-B	-1418 / 0	0.0 0.0	0.15 (1)	J-G	0 / 196	0.04 (1)	
I-H	-118 / 0	0.0 0.0	0.02 (1)	B-N	0 / 1281	0.29 (1)	
O-N	0 / 0	-18.5 -18.5	0.07 (4)	G-I	-1424 / 0	0.74 (1)	
N-M	0 / 1244	-18.5 -18.5	0.24 (1)				
M-L	0 / 1083	-18.5 -18.5	0.22 (1)				
L-K	0 / 943	-18.5 -18.5	0.26 (4)				
K-J	0 / 943	-18.5 -18.5	0.26 (4)				
J-I	0 / 828	-18.5 -18.5	0.24 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C.C.

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 2015

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

(68 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.25/1.00 (D-E-1), BC=0.28/1.00 (J-L-4), WB=0.74/1.00 (G-I-1), SS=0.20/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

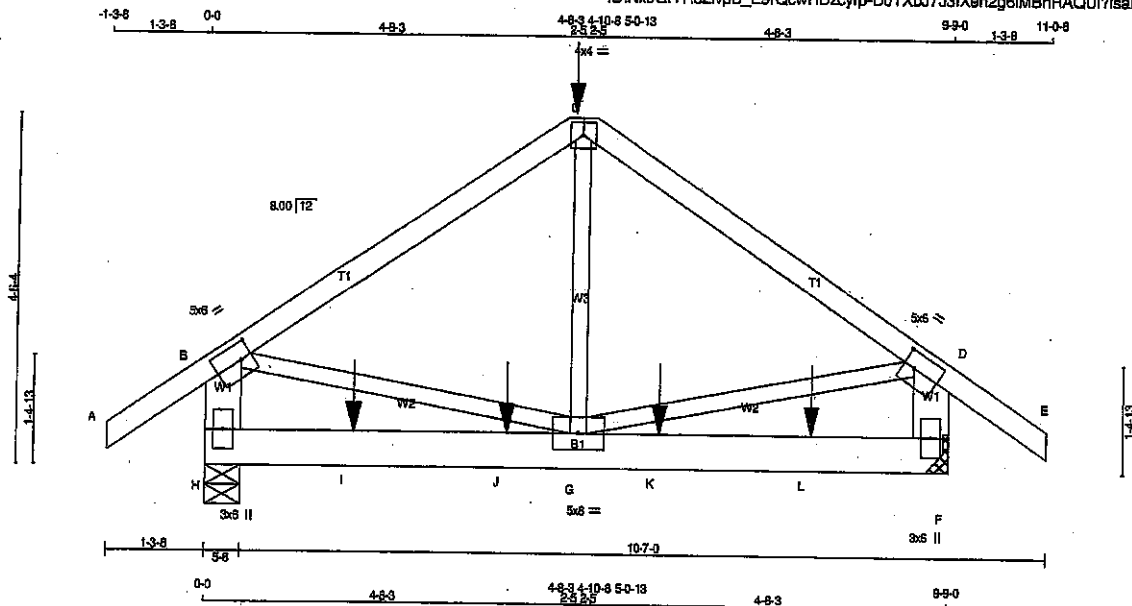
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (I) (INPUT = 0.90)
JSI METAL = 0.38 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123996

JOB NAME 418362	TRUSS NAME T35	QUANTITY 1	PLY 1	JOB DESG. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:43:35 2021 Page 1 ID:Nx0GIYRcZlvpB_E9rQcwHDZcytp-D0TXbj7J3IXeh2g6IMBnRAQUI?isaDbMqELPA?yvTM6			



Scale = 1/27.3

TOTAL WEIGHT = 48 lb

LUMBER

N. L. G. A. RULES	SIZE	LUMBER
A - C	2x4	DRY
C - E	2x4	DRY
H - B	2x6	DRY
F - D	2x6	DRY
H - F	2x6	DRY

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50 1.75
C	TTW-p	MT20	4.0	4.0	
D	TMVW-t	MT20	5.0	6.0	2.50 1.75
F	BMV1+p	MT20	3.0	6.0	
G	BMVWW-t	MT20	5.0	8.0	
H	BMV1+p	MT20	3.0	6.0	

NOTES:

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
H	VERT	DOWN	IN-SX	IN-SX
F	877	0	5-8	5-8
F	878	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
H	617 424/0 0/0 0/0 0/0 193/0 0/0
F	618 424/0 0/0 0/0 0/0 194/0 0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0/35	-91.8 -91.8 0.14 (1)	B-G	0/563 0.14 (1)
B-C	-882/0	-91.8 -91.8 0.43 (1)	G-D	0/563 0.14 (1)
C-D	-882/0	-91.8 -91.8 0.43 (1)	G-C	-87/91 0.03 (4)
D-E	0/35	-91.8 -91.8 0.14 (1)		
H-B	-830/0	0.0 0.0 0.06 (1)		
F-D	-830/0	0.0 0.0 0.06 (1)		
H-I	0/0	-18.5 -18.5 0.08 (4)		
I-J	0/0	-18.5 -18.5 0.08 (4)		
J-G	0/0	-18.5 -18.5 0.08 (4)		
G-K	0/0	-18.5 -18.5 0.08 (4)		
K-L	0/0	-18.5 -18.5 0.08 (4)		
L-F	0/0	-18.5 -18.5 0.08 (4)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-10-8	-50	-50	---	FRONT	VERT	DEAD	---	C1
C	4-10-8	-208	-208	---	FRONT	VERT	SNOW	---	C1
J	1-11-4	-11	-11	---	BACK	VERT	TOTAL	---	C1
J	3-11-4	-11	-11	---	BACK	VERT	TOTAL	---	C1
K	5-11-4	-11	-11	---	BACK	VERT	TOTAL	---	C1
L	7-11-4	-11	-11	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.

LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

*** NON STANDARD GIRDER ***

ADDITIONAL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.32")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.32")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.01")

CSI: TC=0.43/1.00 (B-C:1), BC=0.08/1.00 (G-H:4), WB=0.14/1.00 (B-G:1), SS=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PS)	(PL)	(PL)
MT20	850	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

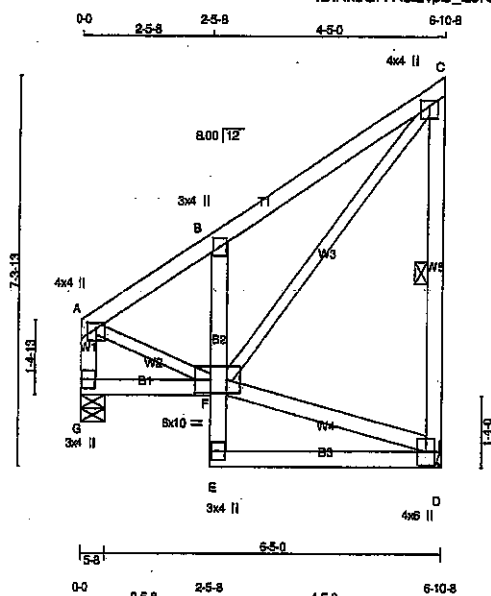
JSI GRIP= 0.44 (B) (INPUT = 0.90)
JSI METAL= 0.19 (D) (INPUT = 1.00)



Structural component only
DWG# T-2123997

JOB NAME 418362	TRUSS NAME T37S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 16:43:36 2021 Page 1
ID:Nx0GIYRcZivpB_E9rQcwHDzcyrp-hC0vpr8xqbVJCEJJ4i0_NziFOeoJhWV3u4ziRyvTM5



Scale = 1:39.7

TOTAL WEIGHT = 42 lb

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
A	TMVW+p	MT20	4.0	4.0 1.25 2.00
B	TMVW+p	MT20	3.0	4.0 1.25 2.00
C	TMVW+p	MT20	4.0	4.0 1.25 2.00
D	BMVW+p	MT20	4.0	6.0 1.25 2.00
E	BMVW+p	MT20	3.0	4.0 1.25 2.00
F	BMVW+p	MT20	6.0	10.0 3.00 3.50
G	BMVW+p	MT20	3.0	4.0 1.25 2.00

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
G	379	0	379	0	0	5-8	5-8
D	379	0	379	0	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	268	176 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0
D	268	176 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MEMB.
FR-TO		FROM	TO	FR-TO			
G-A	-355 / 0	0.0	0.0 0.04 (1)	7.81	A-F	0 / 300	0.07 (1)
A-B	-299 / 0	-91.8	-91.8 0.16 (1)	6.25	F-D	-16 / 0	0.09 (1)
B-C	-329 / 0	-91.8	-91.8 0.19 (1)	6.25	F-C	0 / 428	0.10 (1)
D-C	-335 / 0	0.0	0.0 0.08 (1)	6.25			
G-F	0 / 0	-18.5	-18.5 0.04 (4)	10.00			
E-F	0 / 44	0.0	0.0 0.03 (1)	10.00			
F-B	-398 / 0	0.0	0.0 0.03 (1)	7.81			
E-D	0 / 15	-18.5	-18.5 0.10 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/989 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/989 (0.02")

CSI: TC=0.19/1.00 (B-C:1), BC=0.10/1.00 (D-E:4), WB=0.10/1.00 (C-F:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

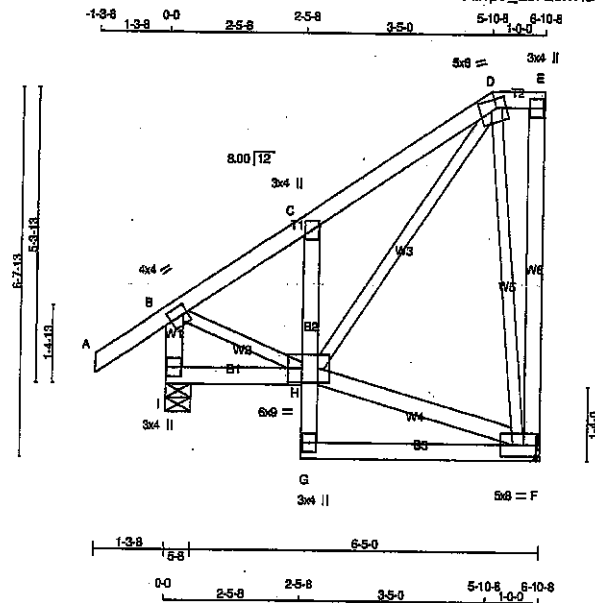
JSI GRIP = 0.37 (C) (INPUT = 0.90)
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123999

JOB NAME 418362	TRUSS NAME T38S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 18:43:37 2021 Page 1
ID:Nx0GIYRcZlvpB_E9rQowHDzcyrp-9Pa10_9ZbvnMxLpVsnDFXbVu6o_128hflYqWEuyvTM4



Scale = 1/32"

TOTAL WEIGHT = 47 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.00
C	TMV+p	MT20	3.0	4.0		
D	TTWW-m	MT20	5.0	6.0	2.00	2.25
E	TMV+p	MT20	3.0	4.0		
F	BMVWW-t	MT20	5.0	8.0		
G	BMV+p	MT20	3.0	4.0		
H	BMVWW-t	MT20	8.0	9.0	3.00	3.00
I	BMV1+p	MT20	3.0	4.0		

NOTES - (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	379	0	379	0
I	505	0	505	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	268	176 / 0	0 / 0	0 / 0	92 / 0	0 / 0
I	355	246 / 0	0 / 0	0 / 0	109 / 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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	H-F	0 / 35	0.01 (1)	
B-C	-287 / 0	-91.8 -91.8	0.10 (1)	H-D	0 / 353	0.08 (1)	
C-D	-305 / 0	-91.8 -91.8	0.11 (1)	B-H	0 / 277	0.06 (1)	
D-E	0 / 0	-91.8 -91.8	0.01 (1)	D-F	-310 / 0	0.23 (1)	
F-E	-44 / 0	0.0 0.0	0.04 (1)				
I-B	-481 / 0	0.0 0.0	0.05 (1)				
I-H	0 / 0	-18.5 -18.5	0.04 (4)				
G-H	0 / 44	0.0 0.0	0.03 (1)				
H-C	-327 / 0	0.0 0.0	0.02 (1)				
G-F	0 / 13	-18.5 -18.5	0.10 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.12/1.00 (A-B:1), BC=0.10/1.00 (F-G:4),
WB=0.23/1.00 (D-F:1), SS=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

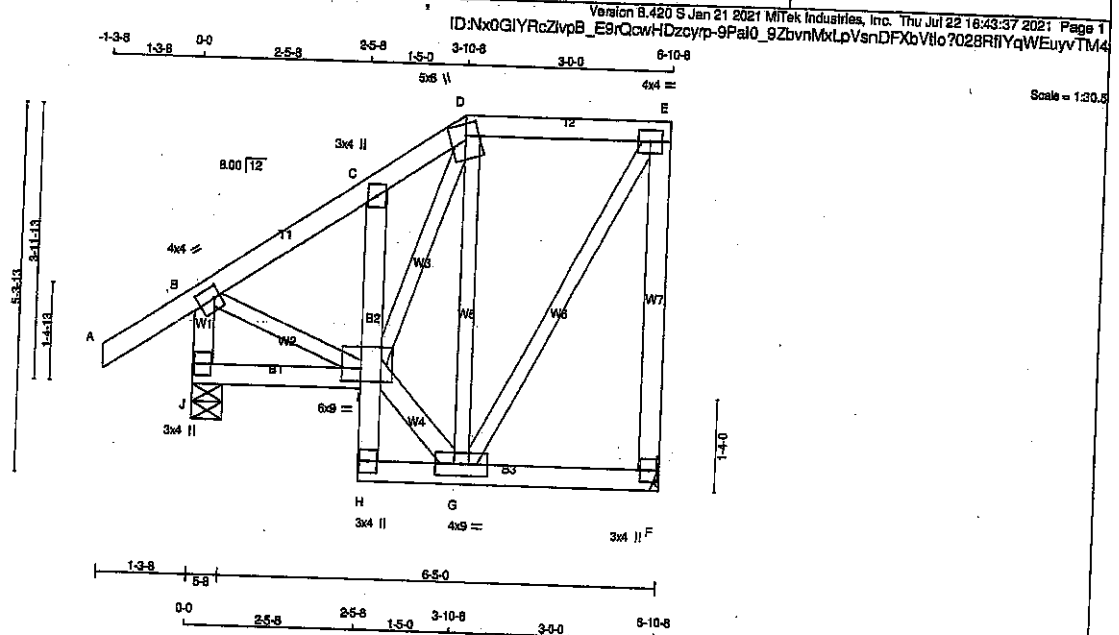
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.45 (B) (INPUT = 0.30)
JSI METAL=0.14 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124000

JOB NAME 418362	TRUSS NAME T39S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.00
C	TMV+p	MT20	3.0	4.0		
D	TMVW+m	MT20	5.0	6.0	2.00	2.25
E	TMVW-t	MT20	4.0	4.0		
F	BMV1+p	MT20	3.0	4.0		
G	BMVWV-t	MT20	4.0	9.0		
H	BMV+p	MT20	3.0	4.0		
I	BMVWVW-t	MT20	6.0	9.0	2.25	3.50
J	BMV1+p	MT20	3.0	4.0		

NOTES:

- (1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
	VERT	DOWN	BRG	BRG
F	379	0	0	0
J	505	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	268	176/0	0/0	0/0	0/0	0/0	92/0	0/0
J	355	246/0	0/0	0/0	0/0	0/0	109/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	10.00	I-G	0/165	0.03 (1)
B-C	-275/0	-91.8	-91.8 0.07 (1)	8.25	I-D	0/275	0.06 (1)
C-D	-286/0	-91.8	-91.8 0.04 (1)	8.25	G-D	-279/0	0.12 (1)
D-E	-127/0	-91.8	-91.8 0.11 (1)	8.25	B-I	0/255	0.06 (1)
E-F	-358/0	0.0	0.0 0.18 (1)	7.81	G-E	0/255	0.06 (1)
J-B	-481/0	0.0	0.0 0.05 (1)	7.81			
J-I	0/0	-18.5	-18.5 0.04 (4)	10.00			
H-I	0/3	0.0	0.0 0.03 (1)	10.00			
I-C	-218/0	0.0	0.0 0.02 (1)	7.81			
H-G	0/14	-18.5	-18.5 0.03 (4)	10.00			
G-F	0/0	-18.5	-18.5 0.03 (4)	10.00			

TOTAL WEIGHT = 45 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.23")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.23")
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CSI: TC=0.18/1.00 (E-F:1), BC=0.04/1.00 (I-J:4), WB=0.12/1.00 (D-G:1), SS=0.11/1.00 (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 RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX	MIN	MAX
MT20	850	371
	1747	798
	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

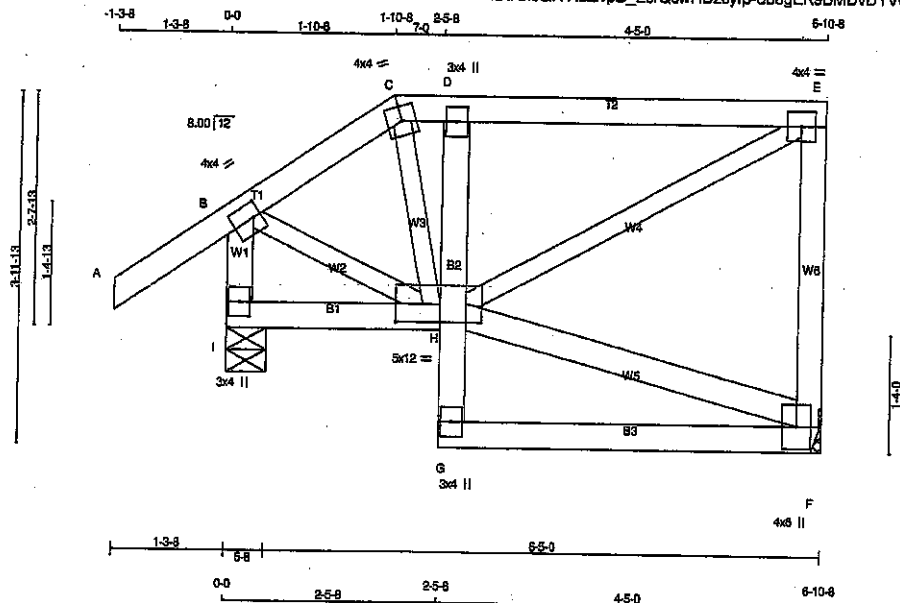
JSI GRIP = 0.42 (B) (INPUT = 0.90)
JSI METAL = 0.14 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124001

JOB NAME 418362	TRUSS NAME T40S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 5.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:43:38 2021 Page 1
ID:Nx0GIYRcZlvpB_E9rQcwHDzcytp-d8gEK9BMDvDYVohQVIU3o21NCKGnbKoXCZ3nKyyTMs



Scale: 1/2"=1'

TOTAL WEIGHT = 39 lb

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.00
C	TTW-m	MT20	4.0	4.0		
D	TMV-p	MT20	3.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	BMVW1-p	MT20	4.0	6.0		
G	BMV-p	MT20	3.0	4.0		
H	BMVWWVW-t	MT20	5.0	12.0	2.50	3.75
I	BMV1-p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	366	0	366	0
I	518	0	518	0

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
F	259	169 / 0	0 / 0	0 / 0	0 / 0	90 / 0	0 / 0
I	363	258 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	UNBRAC	MEMB.	MAX. FACTORED	MAX
MEMB.	FORCE	FORCE	FORCE	FORCE	FORCE	FORCE	FORCE	FORCE	FORCE
FR-TO	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	H-F	-9 / 0	0.00 (1)	
B-C	-285 / 0	-91.8	-91.8	0.12 (1)	6.25	H-E	0 / 342	0.08 (1)	
C-D	-304 / 0	-91.8	-91.8	0.22 (1)	6.25	C-H	0 / 313	0.07 (1)	
D-E	-299 / 0	-91.8	-91.8	0.22 (1)	6.25	B-H	0 / 235	0.05 (1)	
E-F	-324 / 0	0.0	0.0	0.08 (1)	7.81				
F-G	-493 / 0	0.0	0.0	0.05 (1)	7.81				
I-H	0 / 0	-18.5	-18.5	0.04 (4)	10.00				
G-H	0 / 44	0.0	0.0	0.02 (1)	10.00				
H-D	-495 / 0	0.0	0.0	0.02 (1)	7.81				
G-F	0 / 8	-18.5	-18.5	0.10 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.22/1.00 (D-E:1), BC=0.10/1.00 (F-G:4), WB=0.08/1.00 (E-H:1), SS=0.20/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

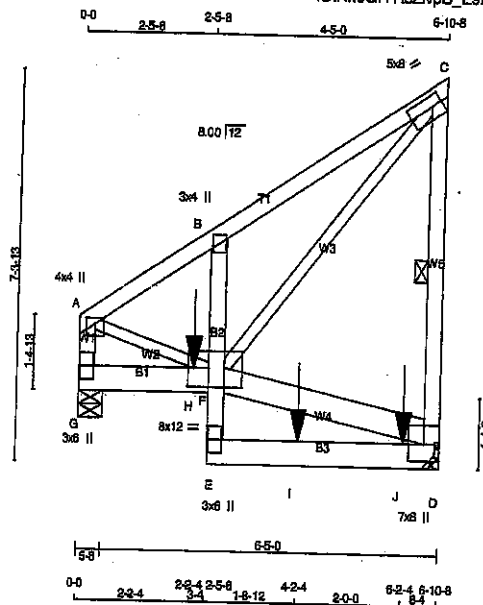
JSI GRIP = 0.38 (B) (INPUT = 0.60)

JSI METAL = 0.14 (H) (INPUT = 1.00)



Structural component only
DWG# T-2124002

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK HOMES	DRWG NO.
418362	T41S	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington						



Scale = 1/32"

LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
G - A	2x4 DRY	No.2	SPF
A - C	2x4 DRY	No.2	SPF
D - C	2x4 DRY	No.2	SPF
G - F	2x6 DRY	No.2	SPF
E - B	2x4 DRY	No.2	SPF
E - D	2x6 DRY	No.2	SPF
ALL WEBS EXCEPT F - D	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		
G-A	12	TOP
A-C	12	TOP
C-D	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
G-F	12	SIDE(0.0)
E-D	12	SIDE(0.0)
B-E	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	8	
2x6	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
GROSS REACTION		GROSS REACTION		BRG	BRG	BRG	BRG
VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX	IN-SX
JT 1224	0	1224	0	0	5-8	5-8	5-8
G 1440	0	1440	0	0	MECHANICAL		

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	861	587/0	0/0	0/0	0/0	274/0	0/0
D	1015	587/0	0/0	0/0	0/0	327/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 8.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
G-A	-1081/0	0.0	0.0 (0.06 (1))	A-F	0/1016	0.13 (1)	
A-B	-1112/0	-91.8	-91.8 (0.10 (1))	F-D	-53/0	0.00 (1)	
B-C	-1112/0	-91.8	-91.8 (0.13 (1))	F-C	0/1501	0.19 (1)	
D-C	-754/0	0.0	0.0 (0.09 (1))				
G-H	0/0	-18.5	-18.5 (0.11 (1))				
H-F	0/0	-18.5	-18.5 (0.11 (1))				
E-F	0/450	0.0	0.0 (0.09 (1))				
F-B	-371/0	0.0	0.0 (0.05 (1))				
E-I	0/50	-18.5	-18.5 (0.28 (1))				
I-J	0/50	-18.5	-18.5 (0.28 (1))				
J-D	0/50	-18.5	-18.5 (0.28 (1))				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	2-2-4	-607	-607		FRONT	VERT	TOTAL		C1
I	4-2-4	-365	-365		FRONT	VERT	TOTAL		C1
J	6-2-4	-365	-365		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 49 = 98 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015, ABC 2015
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL. (LL) = 1/360 (0.23")
CALCULATED VERT. DEFL. (LL) = 1/938 (0.02")
ALLOWABLE DEFL. (TL) = 1/360 (0.23")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.04")

CSI: TC=0.13/1.00 (B-C:1), BC=0.28/1.00 (D-E:1), WB=0.19/1.00 (C-F:1), SSI=0.25/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION
(PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1897 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.47 (A) (INPUT = 0.90)

JSI METAL = 0.14 (F) (INPUT = 1.00)

CONTINUED ON PAGE 2

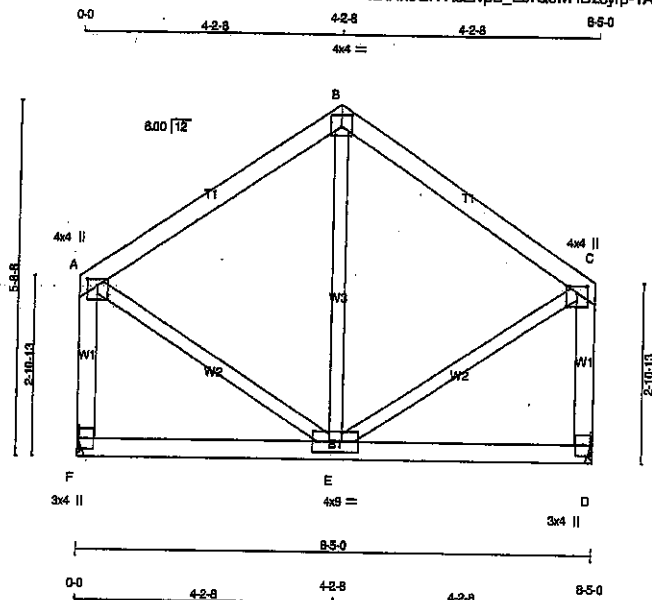


Structural component only
DWG# T-2124003

JOB NAME 418362	TRUSS NAME T43	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mtek Industries, Inc. Thu Jul 22 16:43:41 2021 Page 1
ID:Nx0GIYRcZlpB_E9rQowHDzoyr-1AqosMC4f8HoPz7G5dIBhRgYoPL4_yEEdAokNlyvTMO



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 SPF.

EXCEPT DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
B	TTW+p	MT20	4.0	4.0	2.25	2.00
C	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVW+W-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES:

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	464 0	464 0	0 0	0 0
D	464 0	464 0	0 0	0 0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
F	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
F	328	215 / 0 0 / 0 0 / 0 0 / 0 113 / 0 0 / 0
D	328	215 / 0 0 / 0 0 / 0 0 / 0 113 / 0 0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. UNBRACED LENGTH (LC)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO					FR-TO			
A-B	-226 / 0	-91.8	-91.8	0.21 (1)	E-B	-135 / 23	0.07 (1)	
B-C	-226 / 0	-91.8	-91.8	0.21 (1)	A-E	0 / 221	0.05 (1)	
F-A	-434 / 0	0.0	0.0	0.07 (1)	E-C	0 / 221	0.05 (1)	
D-C	-434 / 0	0.0	0.0	0.07 (1)				
F-E	0 / 0	-18.5	-18.5	0.09 (4)				
E-D	0 / 0	-18.5	-18.5	0.09 (4)				

TOTAL WEIGHT = 2 X 39 = 77 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.21/1.00 (A-B:1), BC=0.09/1.00 (E-F:4), WB=0.07/1.00 (B-E:1), SS=0.13/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	650	371	1747 788 1987 1673

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.29 (C) (INPUT = 0.90)
JSI METAL= 0.09 (C) (INPUT = 1.00)



Structural component only
DWG# T-2124005

Tamarack Roof Truss, Burlington



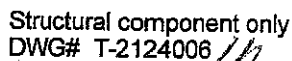
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0		
B						
C	TMVW+p	MT20	4.0	6.0		
D	BMV1+p	MT20	3.0	6.0	4.00	1.50
E						

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO	CSI (LC)	LENGTH	FR-TO			
F-A	-1083 / 0	0.0	0.0	0.06 (1)	7.81	A-E	0 / 1821	0.24 (1)
A-G	-1745 / 0	-91.8	-91.8	0.22 (1)	6.25	E-B	-541 / 0	0.03 (1)
G-H	-1745 / 0	-91.8	-91.8	0.22 (1)	6.25	E-C	0 / 1821	0.23 (1)
H-B	-1745 / 0	-91.8	-91.8	0.22 (1)	6.25			
B-C	-1745 / 0	-91.8	-91.8	0.08 (1)	6.25			
D-C	-686 / 0	0.0	0.0	0.04 (1)	7.81			
F-E	0 / 0	-18.5	-18.5	0.05 (1)	10.00			
E-I	0 / 0	-18.5	-18.5	0.19 (1)	10.00			
I-J	0 / 0	-18.5	-18.5	0.19 (1)	10.00			
J-D	0 / 0	-18.5	-18.5	0.19 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	8-4	-145	-145	---	TOP	VERT	TOTAL	---	C1
H	1-7-4	-373	-373	---	TOP	VERT	TOTAL	---	C1
I	3-7-4	-313	-313	---	BACK	VERT	TOTAL	---	C1
J	4-7-4	-313	-313	---	BACK	VERT	TOTAL	---	C1

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



ISI GRIP= 0.75 (A) (INPUT = 0.90)
ISI METAL= 0.39 (C) (INPUT = 1.00)

JOB NAME 418362	TRUSS NAME T44	QUANTITY 2	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Thu Jul 22 16:43:42 2021 Page 2
 ID:Nx0GIYRcZlvpB E8rQcwHDzcymp-VM0B3IQIRP17ISIKaQEeDIHofN ORqXhw5vTM7

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
E	TMBMWWW*	MT20	7.0	12.0	4.50	3.50
F	BMV1+p	MT20	3.0	6.0	4.00	1.50

NOTES: (1)
 1) Lateral braces to be a minimum of 2X4 SPF #2.

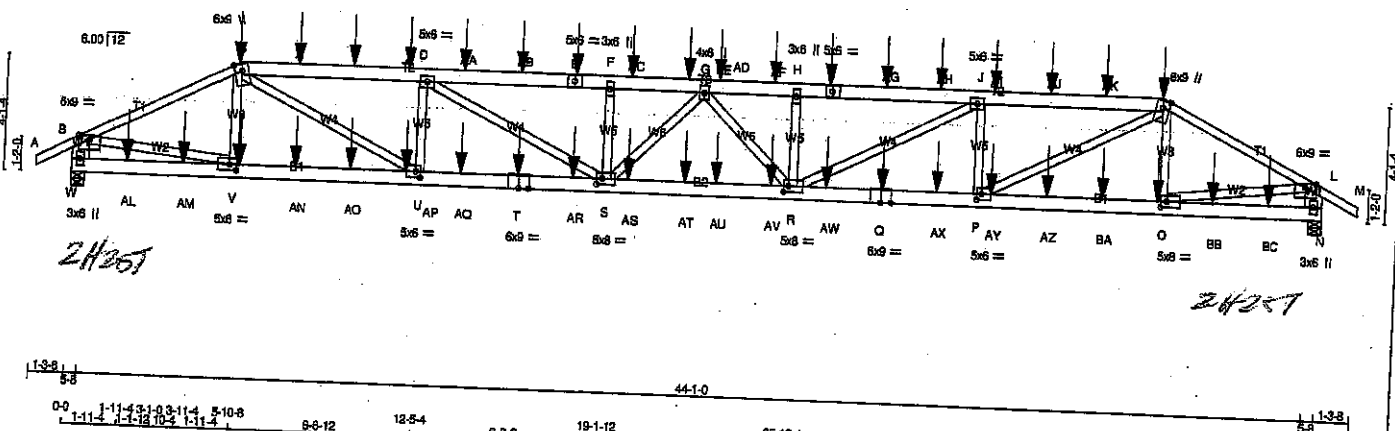


Structural component only
 DWG# T-2124006 *7/21*

JOB NAME: 418363 TRUSS NAME: T50 QUANTITY: 1 PLY: 2 JOB DESC.: GREENPARK HOMES TRUSS DESC.: Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:10:53 2021 Page 1
ID: Cqk5APjQaBbkRfRwRnRoCszKl98-lRsqMq1ERAutXlHB_PyJkGtlWB_?BbFgbv11JuvEuW

Scale = 1:7.5



LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESC
A - C	2x4	DRY	1650F 1.5E	SPF
C - E	2x6	DRY	No.2	SPF
E - I	2x6	DRY	No.2	SPF
I - K	2x6	DRY	No.2	SPF
K - M	2x4	DRY	1650F 1.5E	SPF
M - L	2x8	DRY	No.2	SPF
L - N	2x8	DRY	No.2	SPF
N - T	2x8	DRY	1650F 1.5E	SPF
T - Q	2x6	DRY	1650F 1.5E	SPF
Q - N	2x6	DRY	1650F 1.5E	SPF
ALL WEBS EXCEPT		2x4	DRY	No.2
				SPF

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

CHORDS	BROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS			
A-C	1	12	SIDE(70.1)
K-M	1	12	SIDE(70.1)
C-E	2	12	SIDE(70.1)
E-I	2	12	SIDE(70.1)
I-K	2	12	SIDE(70.1)
W-B	2	12	SIDE(70.1)
N-L	2	12	SIDE(70.1)
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS			
W-T	2	12	SIDE(210.5)
T-Q	2	12	SIDE(210.5)
Q-N	2	12	SIDE(210.5)
WEBS: (0.122"x3") SPIRAL NAILS			
V-C	1	8	SIDE(49.4)
O-K	1	8	SIDE(49.4)
2x4	1	8	SIDE(49.4)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
W	VERT 3315	HORIZ 5448	UPLIFT -119	N-SX -1311
N	5163	0	5-8	5-8

PROVIDE ANCHORAGE AT BEARING JOINT W FOR 1311 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1261 LBS FACTORED UPLIFT
PROVIDE FOR 119 LBS FACTORED HORIZONTAL REACTION AT JOINT W

UNFACTORED REACTIONS

1ST CASE	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	3300	2375 / 0	524 / 0	0 / 0	0 / -1268	1089 / 0	0 / 0
W	3787	2297 / 0	504 / 0	0 / 0	0 / -1218	1083 / 0	0 / 0
N							

HORIZONTAL REACTIONS
W 0 / 0 0 / 0 0 / 0 85 / -85 0 / 0 0 / 0

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 2.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (18)

		FROM	TO	LENGTH	FR-TO		CS1 (LC)	
A-B	0 / 41	-115.2	-115.2	0.08 (2)	10.00	V-C	-516 / 218	0.04 (8)
B-C	-8415 / 1971	-115.2	-115.2	0.87 (2)	3.42	O-K	-868 / 271	0.06 (3)
C-X	-12801 / 3131	-115.2	-115.2	0.58 (2)	3.07	B-V	-1630 / 7612	0.07 (2)
X-Y	-12801 / 3131	-115.2	-115.2	0.58 (2)	3.07	O-L	-1552 / 7342	0.05 (3)
Y-Z	-12801 / 3131	-115.2	-115.2	0.58 (2)	3.07	P-K	-1531 / 6229	0.05 (3)
Z-D	-12801 / 3131	-115.2	-115.2	0.58 (2)	3.07	P-K	-1531 / 6229	0.05 (3)
D-AA	-15263 / 3671	-115.2	-115.2	0.58 (2)	3.07	P-J	-1498 / 8115	0.61 (13)
AA-AB	-15263 / 3671	-115.2	-115.2	0.74 (1)	2.69	U-D	-2698 / 810	0.23 (2)
AB-E	-15263 / 3671	-115.2	-115.2	0.74 (1)	2.69	U-D	-2640 / 794	0.23 (3)
E-F	-15263 / 3671	-115.2	-115.2	0.74 (1)	2.69	R-J	-711 / 3006	0.28 (13)
F-AC	-15263 / 3671	-115.2	-115.2	0.49 (1)	2.69	D-S	-875 / 2885	0.27 (14)
AC-AD	-15263 / 3671	-115.2	-115.2	0.49 (1)	2.88	R-H	-823 / 312	0.07 (8)
AD-G	-15263 / 3671	-115.2	-115.2	0.49 (1)	2.88	S-F	-824 / 313	0.07 (8)
G-AE	-15215 / 3656	-115.2	-115.2	0.49 (1)	2.88	S-G	-272 / 99	0.04 (3)
AE-AF	-15215 / 3656	-115.2	-115.2	0.49 (1)	2.89	G-R	-352 / 121	0.05 (2)
AF-H	-15215 / 3656	-115.2	-115.2	0.49 (1)	2.89			
H-I	-15215 / 3656	-115.2	-115.2	0.73 (1)	2.70			
I-AG	-15215 / 3656	-115.2	-115.2	0.73 (1)	2.70			
AG-AH	-15215 / 3656	-115.2	-115.2	0.73 (1)	2.70			
AH-J	-15215 / 3656	-115.2	-115.2	0.73 (1)	2.70			
J-AI	-12841 / 3084	-115.2	-115.2	0.57 (3)	3.09			
AI-AJ	-12841 / 3084	-115.2	-115.2	0.57 (3)	3.09			
AJ-AK	-12841 / 3084	-115.2	-115.2	0.57 (3)	3.09			
AK-K	-12841 / 3084	-115.2	-115.2	0.57 (3)	3.09			
K-L	-8117 / 1884	-115.2	-115.2	0.85 (8)	3.49			
L-M	0 / 41	-115.2	-115.2	0.08 (3)	10.00			
W-B	-5325 / 1327	0.0	0.0	0.14 (2)	7.08			
N-L	-5156 / 1278	0.0	0.0	0.14 (3)	7.16			
W-AL	-103 / 111	-39.5	-39.5	0.07 (17)	8.25			
AL-AM	-103 / 111	-39.5	-39.5	0.07 (17)	8.25			
AM-V	-103 / 111	-39.5	-39.5	0.07 (17)	8.25			
V-AN	-1703 / 7581	-39.5	-39.5	0.37 (2)	6.25			
AN-AO	-1703 / 7581	-39.5	-39.5	0.37 (2)	6.25			
AO-AP	-1703 / 7581	-39.5	-39.5	0.37 (2)	6.25			
AP-U	-1703 / 7581	-39.5	-39.5	0.37 (2)	6.25			

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 = 33.4 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN./C

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

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2018, ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD.

ALLOWABLE DEFL. (LL) = L/360 (1.50")
CALCULATED VERT. DEFL. (LL) = L/999 (0.51")
ALLOWABLE DEFL. (TL) = L/180 (3.00")
CALCULATED VERT. DEFL. (TL) = L/709 (0.78")

CS1: TC=0.74/1.00 (D-F:1), BC=0.71/1.00 (R-S:1), WB=0.67/1.00 (B-V:2), BS=0.21/1.00 (J-K:2)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

SNOW LOAD IMPORTANCE FACTOR = 1.00

WIND LOAD IMPORTANCE FACTOR = 1.00

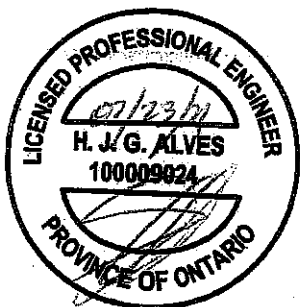
LIVE LOAD IMPORTANCE FACTOR = 1.00

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 650 371 1747 788 1987 1873



Structural component only
DWG# T-2124022

CONTINUED ON PAGE 2

JOB NAME 418363	TRUSS NAME T50	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 M Tek Industries, Inc. Fri Jul 23 09:10:53 2021 Page 2	
ID: QlckSAPIQaBbkRIRWnRoQszK198-IRsxMq1ERaU1X0H8 PvkKGWb 786FgbV11JUvEuW					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	6.0	9.0	Edge
C	TTWW+m	MT20	6.0	9.0	Edge
D	TMVW-t	MT20	5.0	6.0	
E	TS-t	MT20	5.0	6.0	
F	TMVW-w	MT20	3.0	6.0	
G	TMVW-t	MT20	4.0	6.0	
H	TMVW-w	MT20	3.0	6.0	
I	TS-t	MT20	5.0	6.0	
J	TMVW-t	MT20	5.0	6.0	
K	TTWW+m	MT20	6.0	9.0	Edge
L	TMVW-p	MT20	6.0	9.0	Edge
N	BMV1-p	MT20	3.0	6.0	
O	BMVW-t	MT20	5.0	8.0	2.50 2.75
P	BMVW-t	MT20	5.0	6.0	2.50 2.00
Q	BS-t	MT20	6.0	9.0	
R	BMVW-t	MT20	5.0	8.0	2.50 2.00
S	BMVW-t	MT20	5.0	8.0	2.50 2.50
T	BS-t	MT20	6.0	9.0	
U	BMVW-t	MT20	5.0	8.0	2.50 2.00
V	BMVW-t	MT20	5.0	8.0	2.50 2.75
W	BMV1-p	MT20	3.0	6.0	

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

NOTES- (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LCI (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LCI (LBS)	UNBRACED LENGTH FR-TO
FR-TO							
U-AQ	-2980 / 12800	-39.5	-39.5 0.59 (2)				6.25
AQ-T	-2980 / 12800	-39.5	-39.5 0.59 (2)				6.25
T-AR	-2980 / 12800	-39.5	-39.5 0.59 (2)				6.25
AR-S	-2980 / 12800	-39.5	-39.5 0.59 (2)				6.25
S-AS	-3542 / 15425	-39.5	-39.5 0.71 (1)				6.25
AS-AT	-3542 / 15425	-39.5	-39.5 0.71 (1)				6.25
AT-AU	-3542 / 15425	-39.5	-39.5 0.71 (1)				6.25
AU-AV	-3542 / 15425	-39.5	-39.5 0.71 (1)				6.25
AV-R	-3542 / 15425	-39.5	-39.5 0.71 (1)				6.25
R-AW	-2835 / 12840	-39.5	-39.5 0.59 (3)				6.25
AW-Q	-2835 / 12840	-39.5	-39.5 0.59 (3)				6.25
Q-AX	-2835 / 12840	-39.5	-39.5 0.59 (3)				6.25
AX-P	-2835 / 12840	-39.5	-39.5 0.59 (3)				6.25
P-AY	-1533 / 7301	-39.5	-39.5 0.35 (3)				6.25
AY-AZ	-1533 / 7301	-39.5	-39.5 0.35 (3)				6.25
AZ-BA	-1533 / 7301	-39.5	-39.5 0.35 (3)				6.25
BA-O	-1533 / 7301	-39.5	-39.5 0.35 (3)				6.25
O-BB	-8 / 16	-39.5	-39.5 0.07 (17)				10.00
BB-BC	-8 / 16	-39.5	-39.5 0.07 (17)				10.00
BC-N	-8 / 16	-39.5	-39.5 0.07 (17)				10.00

SPECIFIED CONCENTRATED LOADS (LBS)

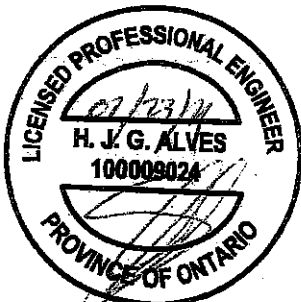
JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-367	-491	38	FRONT	VERT	TOTAL		C1
E	17-11-4	-60	-60		FRONT	VERT	TOTAL		C1
I	27-0-12	-60	-60		FRONT	VERT	TOTAL		C1
K	39-1-8	-367	-482	38	FRONT	VERT	TOTAL		C1
O	39-0-12	-21	-21		FRONT	VERT	TOTAL		C1
Q	29-0-12	-21	-21		FRONT	VERT	TOTAL		C1
T	15-11-4	-21	-21		FRONT	VERT	TOTAL		C1
V	5-10-8	-151	-196	38	FRONT	VERT	TOTAL		C1
X	5-11-4	-21	-21		FRONT	VERT	TOTAL		C1
Y	7-11-4	-60	-60		FRONT	VERT	TOTAL		C1
Z	9-11-4	-60	-60		FRONT	VERT	TOTAL		C1
AA	13-11-4	-60	-60		FRONT	VERT	TOTAL		C1
AB	15-11-4	-60	-60		FRONT	VERT	TOTAL		C1
AC	19-11-4	-60	-60		FRONT	VERT	TOTAL		C1
AD	21-11-4	-60	-60		FRONT	VERT	TOTAL		C1
AE	23-0-12	-60	-60		FRONT	VERT	TOTAL		C1
AF	25-0-12	-60	-60		FRONT	VERT	TOTAL		C1
AG	29-0-12	-60	-60		FRONT	VERT	TOTAL		C1
AH	31-0-12	-60	-60		FRONT	VERT	TOTAL		C1
AI	39-0-12	-60	-60		FRONT	VERT	TOTAL		C1
AJ	35-0-12	-60	-60		FRONT	VERT	TOTAL		C1
AK	37-0-12	-60	-60		FRONT	VERT	TOTAL		C1
AL	1-11-4	-20	-20		FRONT	VERT	TOTAL		C1
AM	3-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AN	7-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AO	9-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AP	11-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AQ	13-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AR	17-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AS	19-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AT	21-11-4	-21	-21		FRONT	VERT	TOTAL		C1
AU	23-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AV	25-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AW	27-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AX	31-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AY	33-0-12	-21	-21		FRONT	VERT	TOTAL		C1
AZ	35-0-12	-21	-21		FRONT	VERT	TOTAL		C1
BA	37-0-12	-21	-21		FRONT	VERT	TOTAL		C1
BB	41-0-12	-21	-21		FRONT	VERT	TOTAL		C1
BC	49-0-12	-20	-20		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.8.2.(b)

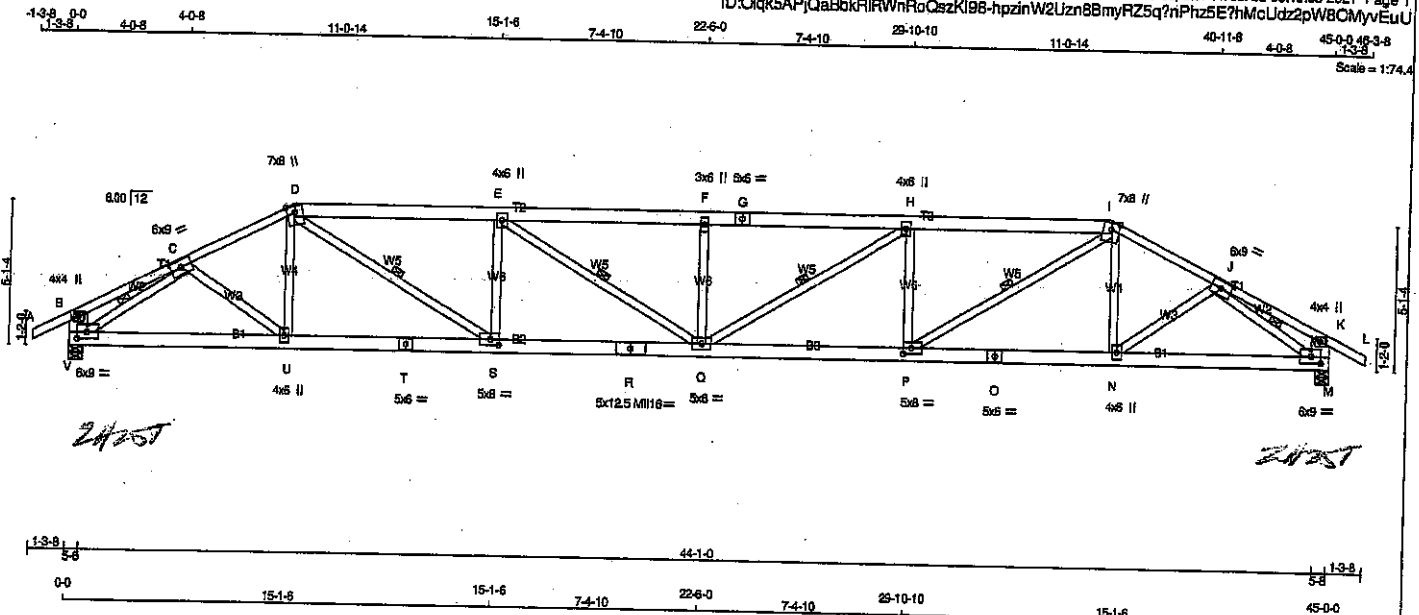
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (8.8) PSF AT (30-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN). AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124022

JOB NAME 418363	TRUSS NAME T51	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:10:55 2021 Page 1
ID:Qkq5APiQaBbKRIRWnRoQszKI98-hpzinW2Uzn8BmyRZ5q?nPhz5E?hMcUdz2pW8CMYvEuU



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x6	DRY	1650F 1.5E
G - I	2x6	DRY	1650F 1.5E
I - L	2x4	DRY	No.2
V - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
V - T	2x6	DRY	1650F 1.5E
T - R	2x6	DRY	1650F 1.5E
R - O	2x6	DRY	1650F 1.5E
O - M	2x6	DRY	1650F 1.5E
ALL WEBS	2x4	DRY	No.2
EXCEPT			
DRY, SEASONED LUMBER.			

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	4.0	4.0		
C TMW+t	MT20	6.0	9.0		
D TTWW+m	MT20	7.0	8.0	Edge	
E TMW+t	MT20	4.0	6.0		
F TMW+w	MT20	3.0	8.0		
G TS-t	MT20	5.0	6.0		
H TMW+t	MT20	4.0	6.0		
I TTWW+m	MT20	7.0	8.0	Edge	
J TMW+t	MT20	6.0	9.0		
K TMV+p	MT20	4.0	4.0		
M BMWV+t	MT20	6.0	9.0	2.75	4.00
N BMWV+t	MT20	4.0	6.0		
O BS-t	MT20	5.0	6.0		
P BMWV+t	MT20	5.0	8.0	2.50	3.50
Q BMWV+t	MT20	5.0	8.0		
R BS-t	MT20	5.0	12.5		
S BMWV+t	MT20	5.0	8.0	2.50	3.50
T BS-t	MT20	6.0	6.0		
U BMWV+t	MT20	4.0	6.0		
V BMWV+t	MT20	6.0	9.0	2.75	4.00

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

NOTES (1)



Structural component only
DWG# T-2124023

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	3638	3730	1175	5-8
V	3638	3730	1175	5-8
M	3638	3730	1175	5-8

PROVIDE ANCHORAGE AT BEARING JOINT V FOR 1175 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT M FOR 1175 LBS FACTORED UPLIFT

PROVIDE FOR 139 LBS FACTORED HORIZONTAL REACTION AT JOINT V

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
V	2686	1655 / 0	473 / 0	0 / 0	0 / -1138	619 / 0	0 / 0
M	2686	1655 / 0	473 / 0	0 / 0	5 / -1138	619 / 0	0 / 0

HORIZONTAL REACTIONS

V	0 / 0	0 / 0	0 / 0	99 / -99	0 / 0	0 / 0
---	-------	-------	-------	----------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 2.44 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.93 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-V, J-M, I-P, D-S, H-Q, E-Q.

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-115.2 -115.2	0.17 (2)	C-U	-135 / 727	0.12 (3)	
B-C	-9 / 118	-115.2 -115.2	0.28 (2)	U-D	-161 / 275	0.04 (17)	
C-D	-5448 / 1825	-115.2 -115.2	0.72 (1)	D-E	-179 / 258	0.04 (9)	
D-E	-7692 / 2802	-115.2 -115.2	0.47 (1)	E-F	-50 / 727	0.12 (2)	
E-F	-8532 / 2835	-115.2 -115.2	0.53 (1)	F-G	-5611 / 1745	0.74 (2)	
F-G	-8532 / 2835	-115.2 -115.2	0.53 (1)	G-H	-5611 / 1745	0.74 (2)	
G-H	-8532 / 2835	-115.2 -115.2	0.53 (1)	H-I	-1174 / 3469	0.56 (2)	
H-I	-7692 / 2802	-115.2 -115.2	0.47 (1)	I-J	-1174 / 3469	0.56 (2)	
I-J	-5448 / 1825	-115.2 -115.2	0.72 (2)	J-K	-1607 / 700	0.38 (2)	
J-K	-9 / 118	-115.2 -115.2	0.28 (2)	K-L	-1607 / 700	0.38 (2)	
K-L	0 / 41	-115.2 -115.2	0.17 (3)	L-M	-369 / 1182	0.19 (2)	
L-M	-394 / 203	0.0 0.0	0.02 (2)	M-N	-369 / 1182	0.19 (2)	
M-N	-394 / 203	0.0 0.0	0.02 (2)	N-O	-804 / 415	0.19 (1)	
O-P	-1539 / 4804	-39.5 -39.5	0.44 (2)	P-Q			
P-Q	-1479 / 4869	-39.5 -39.5	0.45 (1)	Q-R			
Q-R	-1479 / 4869	-39.5 -39.5	0.45 (1)	R-S			
R-S	-2389 / 7682	-39.5 -39.5	0.65 (1)	S-T			
S-T	-2389 / 7682	-39.5 -39.5	0.65 (1)	T-U			
T-U	-2311 / 7662	-39.5 -39.5	0.65 (1)	U-V			
U-V	-1359 / 4869	-39.5 -39.5	0.45 (1)	V-W			
V-W	-1359 / 4869	-39.5 -39.5	0.45 (1)	W-X			
W-X	-1417 / 4804	-39.5 -39.5	0.44 (3)	X-Y			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (3)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 33.4	PSF
DL = 6.0	PSF	
BOT CH.	LL = 10.5	PSF
DL = 7.4	PSF	
TOTAL LOAD	= 57.3	PSF

SPACING = 24.0 IN. O.C.

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF NBCC 2015, ABC 2019
- PART 4 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (1.50")
CALCULATED VERT. DEFL. (LL) = $L/989$ (0.48")
ALLOWABLE DEFL. (TL) = $L/180$ (3.00")
CALCULATED VERT. DEFL. (TL) = $L/822$ (0.66")

CSI: TC=0.72/1.00 (C-D-2), BC=0.65/1.00 (Q-S-1), WB=0.74/1.00 (J-M-3), SSI=0.30/1.00 (H-I-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00

WIND LOAD IMPORTANCE FACTOR = 1.00

LIVE LOAD IMPORTANCE FACTOR = 1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	680 371	788 1987 1873
MT16	438 302	2547 1256 4263 1816

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.90 (J) (INPUT = 0.90)

JSI METAL=0.94 (T) (INPUT = 1.00)

JOB NAME 418363	TRUSS NAME T51	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:10:55 2021 Page 2 ID:Qpk5APIQaBbkRfRWnRoQszKI98-hpzinW2Uzn8BmyRZ5q?nPhz5E?hMcUdz2pW8CMvEuU	

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124023 *ML*

Structural drawing of a roof truss system. The drawing shows a side elevation of the truss with various members labeled (e.g., W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63, W64, W65, W66, W67, W68, W69, W70, W71, W72, W73, W74, W75, W76, W77, W78, W79, W80, W81, W82, W83, W84, W85, W86, W87, W88, W89, W90, W91, W92, W93, W94, W95, W96, W97, W98, W99, W100, W101, W102, W103, W104, W105, W106, W107, W108, W109, W110, W111, W112, W113, W114, W115, W116, W117, W118, W119, W120, W121, W122, W123, W124, W125, W126, W127, W128, W129, W130, W131, W132, W133, W134, W135, W136, W137, W138, W139, W140, W141, W142, W143, W144, W145, W146, W147, W148, W149, W150, W151, W152, W153, W154, W155, W156, W157, W158, W159, W160, W161, W162, W163, W164, W165, W166, W167, W168, W169, W170, W171, W172, W173, W174, W175, W176, W177, W178, W179, W180, W181, W182, W183, W184, W185, W186, W187, W188, W189, W190, W191, W192, W193, W194, W195, W196, W197, W198, W199, W200, W201, W202, W203, W204, W205, W206, W207, W208, W209, W210, W211, W212, W213, W214, W215, W216, W217, W218, W219, W220, W221, W222, W223, W224, W225, W226, W227, W228, W229, W230, W231, W232, W233, W234, W235, W236, W237, W238, W239, W240, W241, W242, W243, W244, W245, W246, W247, W248, W249, W250, W251, W252, W253, W254, W255, W256, W257, W258, W259, W260, W261, W262, W263, W264, W265, W266, W267, W268, W269, W270, W271, W272, W273, W274, W275, W276, W277, W278, W279, W280, W281, W282, W283, W284, W285, W286, W287, W288, W289, W290, W291, W292, W293, W294, W295, W296, W297, W298, W299, W300, W301, W302, W303, W304, W305, W306, W307, W308, W309, W310, W311, W312, W313, W314, W315, W316, W317, W318, W319, W320, W321, W322, W323, W324, W325, W326, W327, W328, W329, W330, W331, W332, W333, W334, W335, W336, W337, W338, W339, W340, W341, W342, W343, W344, W345, W346, W347, W348, W349, W350, W351, W352, W353, W354, W355, W356, W357, W358, W359, W360, W361, W362, W363, W364, W365, W366, W367, W368, W369, W370, W371, W372, W373, W374, W375, W376, W377, W378, W379, W380, W381, W382, W383, W384, W385, W386, W387, W388, W389, W390, W391, W392, W393, W394, W395, W396, W397, W398, W399, W400, W401, W402, W403, W404, W405, W406, W407, W408, W409, W410, W411, W412, W413, W414, W415, W416, W417, W418, W419, W420, W421, W422, W423, W424, W425, W426, W427, W428, W429, W430, W431, W432, W433, W434, W435, W436, W437, W438, W439, W440, W441, W442, W443, W444, W445, W446, W447, W448, W449, W450, W451, W452, W453, W454, W455, W456, W457, W458, W459, W460, W461, W462, W463, W464, W465, W466, W467, W468, W469, W470, W471, W472, W473, W474, W475, W476, W477, W478, W479, W480, W481, W482, W483, W484, W485, W486, W487, W488, W489, W490, W491, W492, W493, W494, W495, W496, W497, W498, W499, W500, W501, W502, W503, W504, W505, W506, W507, W508, W509, W510, W511, W512, W513, W514, W515, W516, W517, W518, W519, W520, W521, W522, W523, W524, W525, W526, W527, W528, W529, W530, W531, W532, W533, W534, W535, W536, W537, W538, W539, W540, W541, W542, W543, W544, W545, W546, W547, W548, W549, W550, W551, W552, W553, W554, W555, W556, W557, W558, W559, W560, W561, W562, W563, W564, W565, W566, W567, W568, W569, W570, W571, W572, W573, W574, W575, W576, W577, W578, W579, W580, W581, W582, W583, W584, W585, W586, W587, W588, W589, W590, W591, W592, W593, W594, W595, W596, W597, W598, W599, W600, W601, W602, W603, W604, W605, W606, W607, W608, W609, W610, W611, W612, W613, W614, W615, W616, W617, W618, W619, W620, W621, W622, W623, W624, W625, W626, W627, W628, W629, W630, W631, W632, W633, W634, W635, W636, W637, W638, W639, W640, W641, W642, W643, W644, W645, W646, W647, W648, W649, W650, W651, W652, W653, W654, W655, W656, W657, W658, W659, W660, W661, W662, W663, W664, W665, W666, W667, W668, W669, W670, W671, W672, W673, W674, W675, W676, W677, W678, W679, W680, W681, W682, W683, W684, W685, W686, W687, W688, W689, W690, W691, W692, W693, W694, W695, W696, W697, W698, W699, W700, W701, W702, W703, W704, W705, W706, W707, W708, W709, W710, W711, W712, W713, W714, W715, W716, W717, W718, W719, W720, W721, W722, W723, W724, W725, W726, W727, W728, W729, W730, W731, W732, W733, W734, W735, W736, W737, W738, W739, W740, W741, W742, W743, W744, W745, W746, W747, W748, W749, W750, W751, W752, W753, W754, W755, W756, W757, W758, W759, W760, W761, W762, W763, W764, W765, W766, W767, W768, W769, W770, W771, W772, W773, W774, W775, W776, W777, W778, W779, W780, W781, W782, W783, W784, W785, W786, W787, W788, W789, W790, W791, W792, W793, W794, W795, W796, W797, W798, W799, W800, W801, W802, W803, W804, W805, W806, W807, W808, W809, W810, W811, W812, W813, W814, W815, W816, W817, W818, W819, W820, W821, W822, W823, W824, W825, W826, W827, W828, W829, W830, W831

JOB NAME 418363	TRUSS NAME T52	QUANTITY 5	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:10:56 2021 Page 2
ID:Oigk5APiQaBbkRjRWnRoQszKI98-90X4 s36k5G1O60mfXW0xvVGZP'ULwF8HTGhw0yvEuT

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM), INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (8-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124024 *mr*

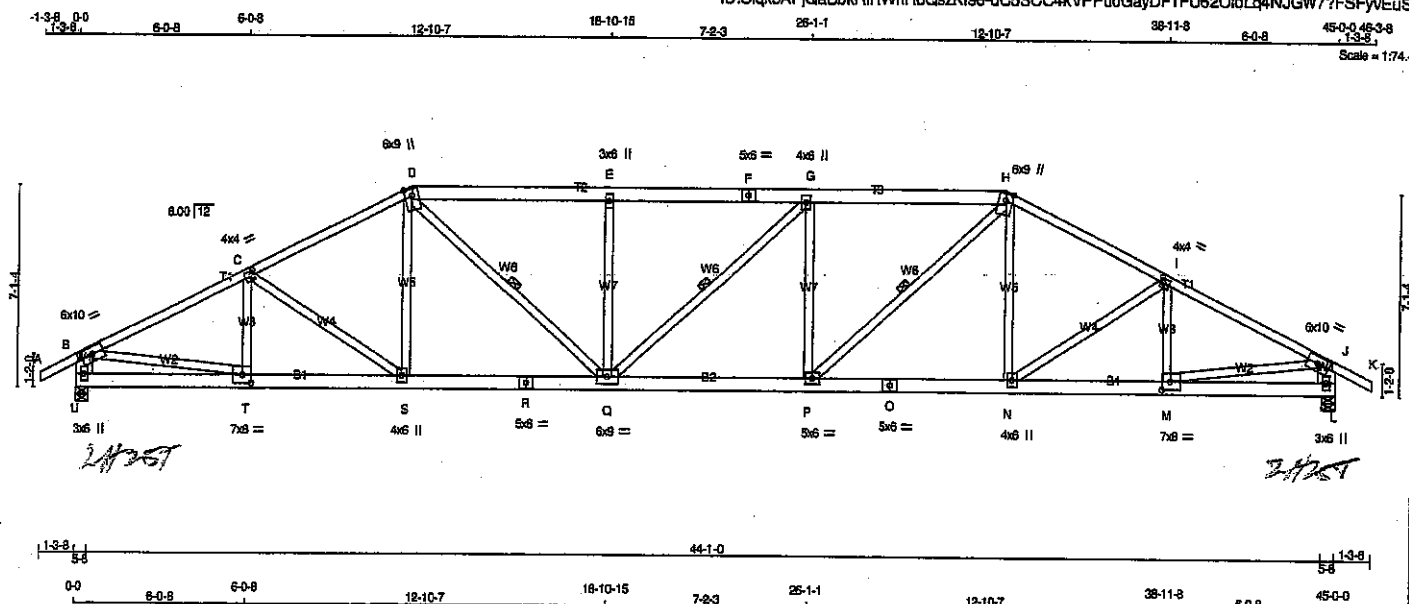
JOB NAME 418363	TRUSS NAME T53	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:10:57 2021 Page 1

ID:Olk5APjGaBbkRIRWnRoQszK196-dC5SCC4kVPPu0GayDF1FU82OioLq4NJGW7?FSFvEUS

Scale = 1:74.4



JOB NAME 418363	TRUSS NAME T53	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 8 Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:10:57 2021 Page 2
ID:0l6k5APiQaBbkRIRWnRoQszKI98-dC5SCC4KVPPu0GayDF1FU62OloLq4NGW77FSFvEuS

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



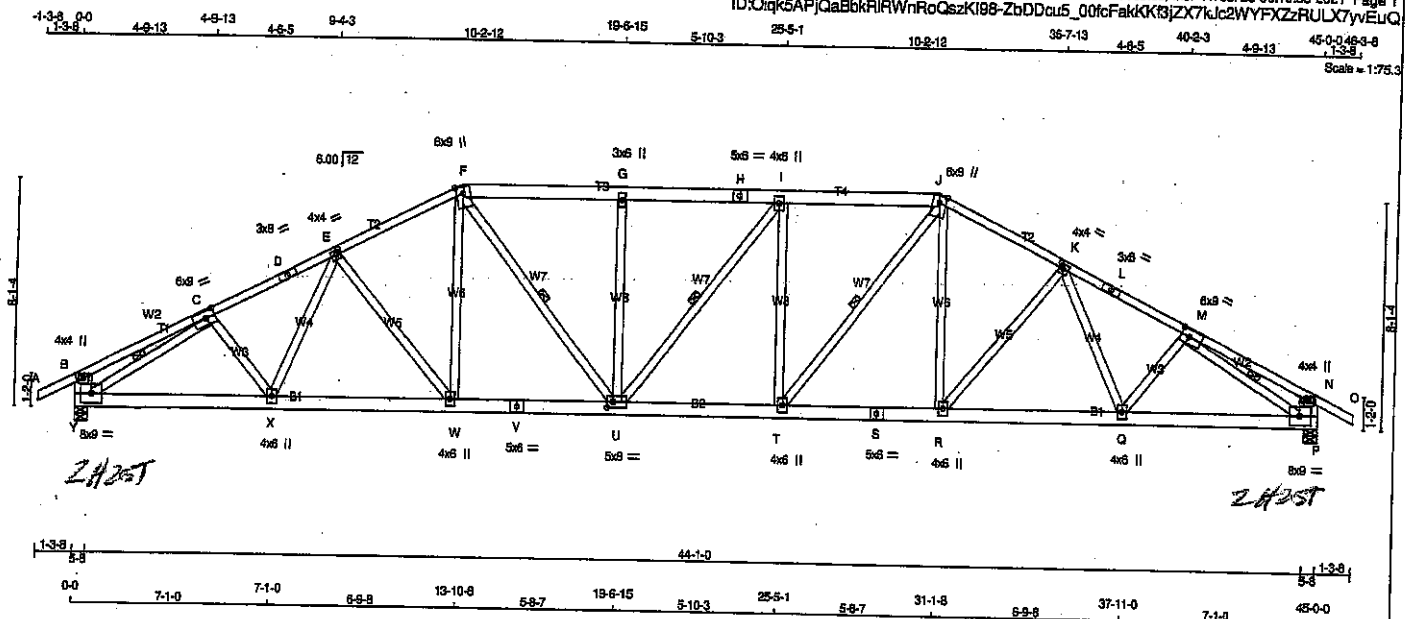
Structural component only
DWG# T-2124025 *me*

JOB NAME 418363	TRUSS NAME T54	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 09:10:58 2021 Page 1
ID:Q1qk5APjQaBbkRIRWnRoQszK198-ZbDDcu5_00fcFakKK3jZX7kLc2WYFXZzRULX7yVUQ

Scale = 1/75.3



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x6	DRY	No.2
H - J	2x6	DRY	No.2
J - L	2x4	DRY	No.2
L - O	2x4	DRY	No.2
O - P	2x4	DRY	No.2
P - N	2x8	DRY	No.2
N - V	2x6	DRY	No.2
V - S	2x6	DRY	No.2
S - P	2x6	DRY	No.2

ALL WEBS 2x4 DRY No.2
EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	4.0	4.0		
C	TMVW-t	MT20	6.0	9.0	3.00	3.75
D	TS-t	MT20	3.0	8.0		
E	TMVW-t	MT20	4.0	4.0	2.00	1.75
F	TTVW+m	MT20	6.0	9.0	Edge	
G	TMVW-t	MT20	3.0	6.0		
H	TS-t	MT20	5.0	6.0		
I	TMVW-t	MT20	4.0	6.0		
J	TTVW+m	MT20	6.0	9.0	Edge	
K	TMVW-t	MT20	4.0	4.0	2.00	1.75
L	TS-t	MT20	3.0	8.0		
M	TMVW-t	MT20	6.0	9.0	3.00	3.75
N	TMV+p	MT20	4.0	4.0		
P	BMVW-t	MT20	8.0	9.0		
Q	R, T, W, X					
S	BS-t	MT20	4.0	6.0		
U	BMVW-t	MT20	5.0	8.0	2.50	2.50
V	BS-t	MT20	5.0	8.0		
Y	BMVW-t	MT20	8.0	9.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
Y	3638	0	3670	200	-1128
P	3638	0	3670	200	-1128

PROVIDE ANCHORAGE AT BEARING JOINT Y FOR 1128 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT P FOR 1128 LBS FACTORED UPLIFT

PROVIDE FOR 200 LBS FACTORED HORIZONTAL REACTION AT JOINT Y

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Y	2688	1818 / 0	473 / 0	0 / 0	0 / -1102	819 / 0	0 / 0
P	2688	1818 / 0	473 / 0	0 / 0	82 / -1102	819 / 0	0 / 0

HORIZONTAL REACTIONS

Y	0 / 0	0 / 0	0 / 0	143 / -143	0 / 0	0 / 0
---	-------	-------	-------	------------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 2.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.24 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-Y, M-P, J-T, F-U, H-I.

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: (18)

CHORDS		MAX. FACTORED	MEMB.	FORCE	VERT. LOAD	LC1	MAX	CS1 (LC)	UNBRAC	LENGTH	FR-TO	MEMB.	MAX. FACTORED	MEMB.	FORCE	MAX	CS1 (LC)
		(LBS)		(LBS)	(PLF)								(LBS)		(LBS)		
FR-TO																	
A-B	0 / 41	-115.2	-115.2	0.17 (2)	10.00	C-X	-25 / 434	0.07 (3)									
B-C	-9 / 133	-115.2	-115.2	0.35 (2)	10.00	X-E	-132 / 250	0.05 (10)									
C-D	-5373 / 1759	-115.2	-115.2	0.91 (2)	2.36	E-W	-741 / 369	0.48 (2)									
D-E	-5373 / 1759	-115.2	-115.2	0.91 (2)	2.36	W-F	-246 / 844	0.29 (13)									
E-F	-4905 / 1670	-115.2	-115.2	0.78 (2)	2.61	R-J	-244 / 840	0.29 (14)									
F-G	-5088 / 1744	-115.2	-115.2	0.38 (1)	3.60	R-K	-742 / 369	0.48 (9)									
G-H	-5088 / 1743	-115.2	-115.2	0.39 (1)	3.58	K-Q	-143 / 251	0.06 (2)									
H-I	-5088 / 1743	-115.2	-115.2	0.39 (1)	3.58	Q-M	-19 / 434	0.07 (2)									
I-J	-5093 / 1748	-115.2	-115.2	0.39 (1)	3.59	Y-C	-5643 / 1647	0.89 (1)									
J-K	-4905 / 1689	-115.2	-115.2	0.78 (2)	2.61	M-P	-5643 / 1648	0.89 (1)									
K-L	-5373 / 1760	-115.2	-115.2	0.91 (3)	2.36	T-J	-506 / 1532	0.25 (2)									
L-M	-5373 / 1760	-115.2	-115.2	0.91 (3)	2.36	R-U	-501 / 1524	0.24 (3)									
M-N	-9 / 133	-115.2	-115.2	0.35 (3)	10.00	U-G	-1003 / 459	0.80 (2)									
N-O	0 / 41	-115.2	-115.2	0.17 (3)	10.00	U-G	-749 / 384	0.80 (1)									
Y-B	-445 / 233	0.0	0.0	0.02 (2)	7.81	U-I	-329 / 313	0.15 (3)									
P-N	-445 / 233	0.0	0.0	0.02 (3)	7.81												
Y-X	-1557 / 4700	-39.5	-39.5	0.70 (1)	6.24												
X-W	-1451 / 4755	-39.5	-39.5	0.65 (1)	6.25												
W-V	-1216 / 4366	-39.5	-39.5	0.60 (1)	6.25												
V-U	-1216 / 4366	-39.5	-39.5	0.60 (1)	6.25												
U-T	-1351 / 5093	-39.5	-39.5	0.67 (1)	6.25												
T-S	-1049 / 4366	-39.5	-39.5	0.60 (1)	6.25												
S-R	-1049 / 4366	-39.5	-39.5	0.60 (1)	6.25												
R-Q	-1251 / 4755	-39.5	-39.5	0.65 (1)	6.25												
Q-P	-1358 / 4700	-39.5	-39.5	0.70 (1)	6.25												

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (3)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	33.4	PSF
DL	=	6.0	PSF	
BOT CH.	LL	=	10.5	PSF
DL	=	7.4	PSF	
TOTAL LOAD	=	57.3	PSF	

SPACING = 24.0 IN/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF CBC 2015, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (1.50")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.28")
ALLOWABLE DEFL. (TL) = $L/180$ (3.00")
CALCULATED VERT. DEFL. (TL) = $L/969$ (0.39")

CSI: TC=0.91/1.00 (K-M-3), BC=0.70/1.00 (X-Y-1), WB=0.88/1.00 (M-P-1), SS=0.28/1.00 (B-C-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00

WIND LOAD IMPORTANCE FACTOR = 1.00

LIVE LOAD IMPORTANCE FACTOR = 1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.88 (M) (INPUT = 0.90)

JSI METAL=0.85 (M) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2124026

JOB NAME 418363	TRUSS NAME T54	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	
Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:10:59 2021 Page 2 ID:0lqk5APiQaBbkRIRWnRcQszKf98-ZbDDcu5 00lcFakKK3jZX7kjc2WYFXZzRULX7vEuQ					

NOTES- (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.	WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.	
---	--	--

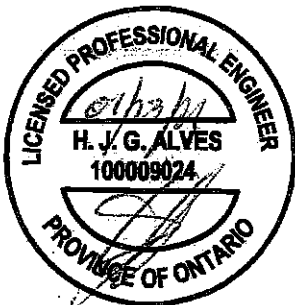


Structural component only
DWG# T-2124026

JOB NAME 418363	TRUSS NAME T55	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	
Version 8.420 S Jan 21 2021 Mitak Industries, Inc. Fri Jul 23 09:11:00 2021 Page 2 ID:QbK5APiQaBbkRIRWnRoQszK198-1nnbgE8dnKtTtkXuNay8jgyN0NCHiaIC5Ev3ayvEuP					

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

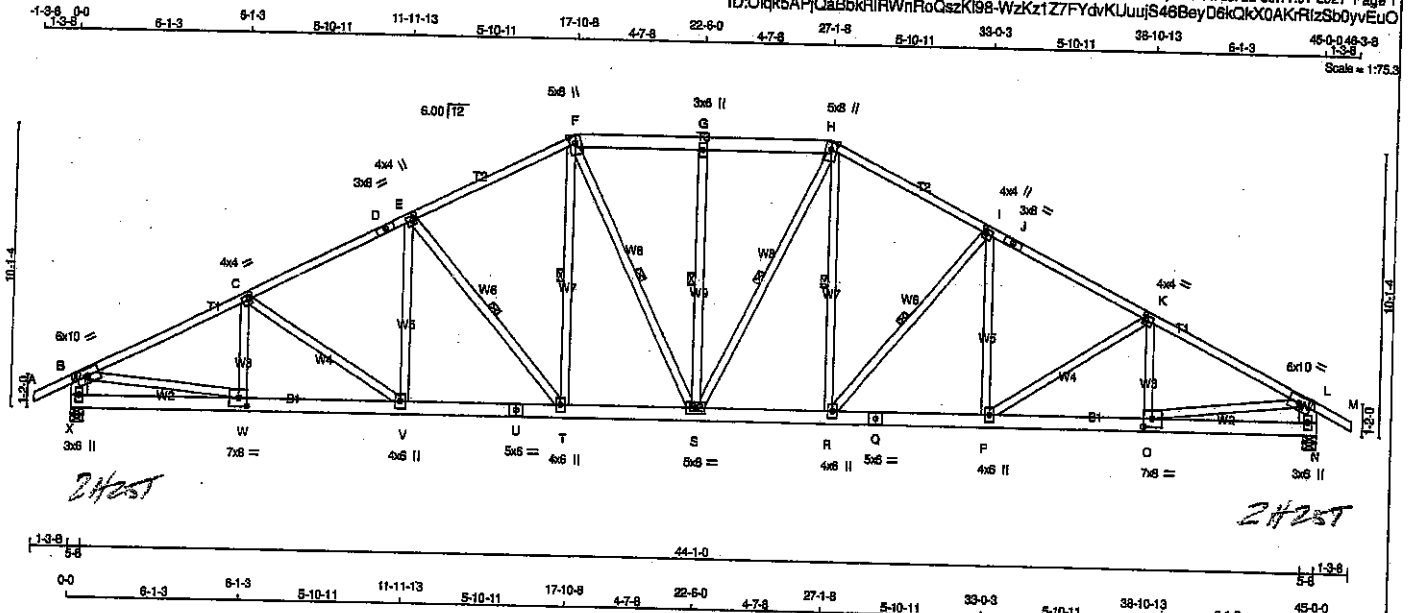
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124027 *2/2*

JOB NAME 418363	TRUSS NAME T56	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Jul 23 09:11:01 2021 Page 1
ID:Oiqk5APjQaBbKRIRWnRoQszKI98-WzKz1Z7FYdvKUuujS48BeyD6kQKX0AKRizSb0yvEuO



LUMBER					
N.L.G.A. RULES					
CHORDS	SIZE	LUMBER		DESCR	
A - D	2x4	DRY	2100F 1.8E	SPF	
D - F	2x4	DRY	2100F 1.8E	SPF	
F - H	2x6		No.2	SPF	
H - J	2x4	DRY	2100F 1.8E	SPF	
J - M	2x4	DRY	2100F 1.8E	SPF	
X - B	2x8	DRY	No.2	SPF	
N - L	2x8	DRY	No.2	SPF	
X - U	2x6	DRY	No.2	SPF	
U - Q	2x6	DRY	No.2	SPF	
Q - N	2x6	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWV-t	MT20	6.0	10.0		
C TMWV-t	MT20	4.0	4.0	2.00	1.25
D TS-t	MT20	3.0	8.0		
E TMWV-t	MT20	4.0	4.0	2.00	1.25
F TTWV-m	MT20	5.0	8.0	Edge	
G TMWV-t	MT20	3.0	6.0		
H TTWV-m	MT20	5.0	8.0	Edge	
I TMWV-t	MT20	4.0	4.0	2.00	1.25
J TS-t	MT20	3.0	8.0		
K TMWV-t	MT20	4.0	4.0	2.00	1.25
L TMWV-t	MT20	6.0	10.0		
N BMV-t-p	MT20	3.0	6.0		
O BMWV-t	MT20	7.0	8.0	3.50	3.75
P, R, T, V					
P BMWV-t	MT20	4.0	6.0		
Q BS-t	MT20	5.0	6.0		
S BMWV-t	MT20	5.0	8.0		
U BS-t	MT20	5.0	6.0		
W BMWV-t	MT20	7.0	8.0	3.50	3.75
X BMV-t-p	MT20	3.0	6.0		

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

NOTES (1)



Structural component only
DWG# T-2124028

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

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	UPLIFT	IN-SX
X 3838	0	3838	253
N 3838	0	3838	0

PROVIDE ANCHORAGE AT BEARING JOINT X FOR 1079 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1079 LBS FACTORED UPLIFT

PROVIDE FOR 253 LBS FACTORED HORIZONTAL REACTION AT JOINT X

UNFACTORED REACTIONS

1ST LOOSE	MAX MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
X 2886	1584 / 0	473 / 0	0 / 0	12 / -1089	619 / 0
N 2886	1584 / 0	473 / 0	0 / 0	92 / -1089	619 / 0

HORIZONTAL REACTIONS
X 0 / 0 0 / 0 0 / 0 181 / -181 0 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) X, N
BRACING
MAX. UNBRACED TOP CHORD LENGTH = 3.31 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-T, F-T, F-S, G-S, H-S, H-R, I-R.

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: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO				FR-TO			
A-B	-0 / 41	-115.2	-115.2 0.11 (2)	W-C	-448 / 239	0.08 (8)	
B-C	-5482 / 1613	-115.2	-115.2 0.79 (2)	C-V	-527 / 277	0.34 (2)	
C-D	-5134 / 1604	-115.2	-115.2 0.71 (2)	V-E	-104 / 529	0.08 (5)	
D-E	-5134 / 1604	-115.2	-115.2 0.71 (2)	E-T	-1267 / 545	0.48 (2)	
E-F	-4378 / 1451	-115.2	-115.2 0.62 (2)	T-F	-388 / 1178	0.19 (2)	
F-G	-4033 / 1393	-115.2	-115.2 0.24 (1)	F-S	-305 / 945	0.18 (14)	
G-H	-4033 / 1393	-115.2	-115.2 0.24 (1)	S-G	-694 / 353	0.32 (1)	
H-I	-4378 / 1451	-115.2	-115.2 0.62 (2)	G-H	-308 / 945	0.18 (13)	
I-J	-5134 / 1605	-115.2	-115.2 0.71 (3)	H-I	-388 / 1178	0.19 (3)	
J-K	-5134 / 1605	-115.2	-115.2 0.71 (3)	K-I	-1267 / 545	0.48 (3)	
K-L	-5482 / 1614	-115.2	-115.2 0.79 (3)	L-M	-104 / 529	0.08 (5)	
L-M	-0 / 41	-115.2	-115.2 0.11 (3)	M-N	-527 / 277	0.34 (3)	
X-B	-3519 / 1094	0.0	0.0 0.17 (1)	B-W	-454 / 239	0.08 (8)	
N-L	-3519 / 1094	0.0	0.0 0.17 (1)	W-L	-1315 / 4941	0.78 (1)	
X-W	-238 / 289	-39.5	-39.5 0.13 (4)	O-L	-1316 / 4941	0.79 (1)	
W-V	-1543 / 4902	-39.5	-39.5 0.87 (1)				
V-U	-1310 / 4593	-39.5	-39.5 0.80 (1)				
U-T	-1310 / 4593	-39.5	-39.5 0.80 (1)				
T-S	-953 / 3983	-39.5	-39.5 0.51 (1)				
S-R	-837 / 3983	-39.5	-39.5 0.51 (1)				
R-Q	-1057 / 4593	-39.5	-39.5 0.80 (1)				
Q-P	-1057 / 4593	-39.5	-39.5 0.80 (1)				
P-O	-1290 / 4902	-39.5	-39.5 0.87 (1)				
O-N	-8 / 16	-39.5	-39.5 0.13 (4)				

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCQ 4.1.6.2.(b)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCQ 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF NBCQ 2015, ABC 2019
- PART 4 OF NBCQ 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR = 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEF. (LL) = L/360 (1.50")
CALCULATED VERT. DEF. (LL) = L/999 (0.24")
ALLOWABLE DEF. (TL) = L/180 (3.00")
CALCULATED VERT. DEF. (TL) = L/999 (0.33")

CSI: TC=0.79/1.00 (K-L-3), BC=0.67/1.00 (O-P-1), WB=0.79/1.00 (L-O-1), SS=0.34/1.00 (K-L-3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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 GRP(DRY) SHEAR (PSI)	SECTION (PL)	MAX MIN MAX MIN MAX MIN
MT20	650 371 1747 788 1987 1873	

PLATE PLACEMENT TOL = 0.250 inches

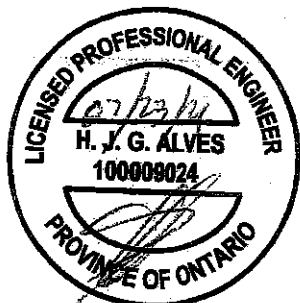
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (L) (INPUT = 0.90)
JSI METAL = 0.84 (O) (INPUT = 1.00)

JOB NAME 418363	TRUSS NAME T56	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Jul 23 08:11:01 2021 Page 2
ID:Oigk5APIQaBbkRIRWnRoQszKI98-WzKz1Z7FYdvKUuuIS46BevD6kQkX0AKrRizSb0vvEuO

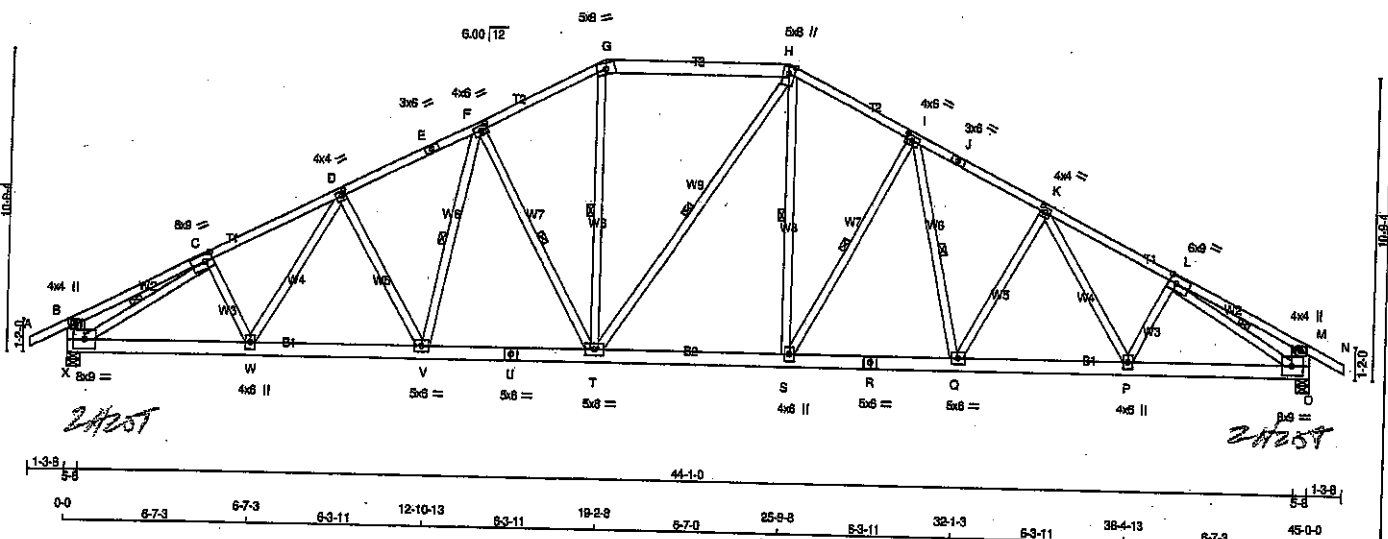
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM), INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124028 2/2

JOB NAME 418363	TRUSS NAME T57	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 M/Tek Industries, Inc. Fri Jul 23 09:11:02 2021 Page 1
ID:Oiqk5APjQaBbkRIRWnRoQszK198_AuLFv8tJx1B61Tv0odQBAIKp4Jbb?FpJ77SyvEuN
Scale = 1/75.3



LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - E	2x4	DRY	1650F 1.5E
E - G	2x4	DRY	1650F 1.5E
G - H	2x6	DRY	No.2
H - J	2x4	DRY	1650F 1.5E
J - N	2x4	DRY	1650F 1.5E
X - B	2x8	DRY	No.2
O - M	2x8	DRY	No.2
X - U	2x8	DRY	No.2
U - R	2x6	DRY	No.2
R - O	2x6	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	4.0	4.0
C	TMVW+t	MT20	6.0	9.0 3.00 3.25
D	TMVW+t	MT20	4.0	4.0 2.00 1.75
E	TS-t	MT20	3.0	6.0
F	TMVW+t	MT20	4.0	6.0 2.00 2.75
G	TTW-m	MT20	5.0	8.0
H	TTWW+m	MT20	5.0	8.0 Edge
I	TMVW+t	MT20	4.0	6.0 2.00 2.75
J	TS-t	MT20	3.0	6.0
K	TMVW+t	MT20	4.0	4.0 2.00 1.75
L	TMVW+t	MT20	6.0	9.0 3.00 3.25
M	TMV+p	MT20	4.0	4.0
O	BMVW1-t	MT20	8.0	9.0
P, S, W				
P	BMVW+t	MT20	4.0	8.0
Q	BMVW+t	MT20	5.0	8.0
R	BS-t	MT20	5.0	8.0
T	BMVW+t	MT20	5.0	8.0
U	BS-t	MT20	5.0	8.0
V	BMVW+t	MT20	5.0	8.0
X	BMVW1-t	MT20	8.0	9.0

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
X	3638	0	3638	271	-1060	5-8	5-8
O	3638	0	3638	271	-1060	5-8	5-8

PROVIDE ANCHORAGE AT BEARING JOINT X FOR 1060 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT O FOR 1060 LBS FACTORED UPLIFT

PROVIDE FOR 271 LBS FACTORED HORIZONTAL REACTION AT JOINT X

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS		WIND		DEAD		SOIL	
COMBINED		LIVE		PERM.LIVE		WIND		DEAD	
X	2686	1594 / 0	473 / 0	0 / 0	44 / -1055	819 / 0	0 / 0	0 / 0	0 / 0
O	2686	1594 / 0	473 / 0	0 / 0	100 / -1055	819 / 0	0 / 0	0 / 0	0 / 0

HORIZONTAL REACTIONS		WIND		DEAD		SOIL	
X	0 / 0	0 / 0	0 / 0	193 / -193	0 / 0	0 / 0	0 / 0

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 3.18 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-V, F-T, G-T, H-T, H-S, I-S, I-Q, C-X, L-O.

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS				
MEMB.		FACTORED		MEMB.		FACTORED		
		(LBS)				(LBS)		
		VERT. LOAD				VERT. LOAD		
		LC1				LC1		
		MAX				MAX		
		(PLF)				(PLF)		
		FROM				TO		
		FR-TO				FR-TO		
A-B	0 / 41	-115.2	-115.2	0.15 (2)	10.00	C-W	-96 / 343	0.06 (3)
B-C	-9 / 135	-115.2	-115.2	0.34 (2)	10.00	W-D	-110 / 304	0.06 (13)
C-D	-5371 / 1669	-115.2	-115.2	0.60 (2)	3.18	D-V	-718 / 373	0.37 (2)
D-E	-4959 / 1582	-115.2	-115.2	0.57 (2)	3.30	V-F	-285 / 892	0.14 (2)
E-F	-4959 / 1582	-115.2	-115.2	0.57 (2)	3.30	F-T	-1324 / 585	0.55 (2)
F-G	-4190 / 1394	-115.2	-115.2	0.49 (2)	3.59	T-G	-325 / 1247	0.20 (1)
G-H	-3719 / 1310	-115.2	-115.2	0.53 (1)	3.80	T-H	-574 / 584	0.50 (3)
H-I	-4196 / 1393	-115.2	-115.2	0.49 (3)	3.59	S-H	-448 / 1412	0.24 (14)
I-J	-4961 / 1583	-115.2	-115.2	0.56 (3)	3.30	S-I	-1328 / 586	0.55 (3)
J-K	-4961 / 1583	-115.2	-115.2	0.56 (3)	3.30	I-Q	-286 / 899	0.14 (3)
K-L	-5371 / 1669	-115.2	-115.2	0.60 (3)	3.18	Q-K	-718 / 374	0.37 (3)
L-M	-9 / 135	-115.2	-115.2	0.34 (3)	10.00	K-P	-111 / 302	0.06 (14)
M-N	0 / 41	-115.2	-115.2	0.15 (3)	10.00	P-L	-101 / 343	0.06 (2)
X-B	-451 / 237	0.0	0.0	0.02 (2)	7.81	X-C	-5882 / 1529	0.92 (1)
O-M	-451 / 237	0.0	0.0	0.02 (3)	7.81	L-O	-5881 / 1529	0.92 (1)
X-W	-1533 / 4747	-39.5	-39.5	0.69 (1)	6.25			
W-V	-1367 / 4716	-39.5	-39.5	0.85 (1)	6.25			
V-U	-1150 / 4288	-39.5	-39.5	0.81 (1)	6.25			
U-T	-1150 / 4288	-39.5	-39.5	0.81 (1)	6.25			
T-S	-766 / 3715	-39.5	-39.5	0.54 (1)	6.25			
S-R	-907 / 4288	-39.5	-39.5	0.59 (1)	6.25			
R-Q	-907 / 4288	-39.5	-39.5	0.59 (1)	6.25			
Q-P	-1117 / 4717	-39.5	-39.5	0.65 (1)	6.25			
P-O	-1262 / 4746	-39.5	-39.5	0.69 (1)	6.25			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2(3)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	33.4 PSF
DL =	6.0 PSF	
BOT CH.	LL =	10.5 PSF
DL =	7.4 PSF	
TOTAL LOAD =	57.3 PSF	

SPACING = 24.0 IN./C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF BCBC 2015, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.50")
CALCULATED VERT. DEFL.(LL) = $L/968$ (0.26")
ALLOWABLE DEFL.(TL) = $L/180$ (3.00")
CALCULATED VERT. DEFL.(TL) = $L/968$ (0.36")

CSI: TC=0.60/1.00 (C-D-2), BC=0.69/1.00 (O-P-1), WB=0.92/1.00 (C-X-1), SS=0.27/1.00 (B-C-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

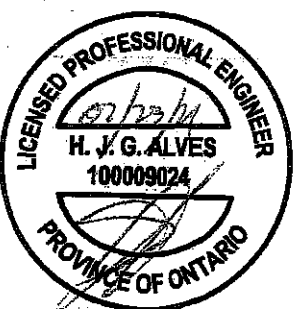
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

MAIL VALUES		PLATE GRIP(DRY)		SHEAR		SECTION	
		(PSI)		(PL)		(PL)	
		MAX MIN		MAX MIN		MAX MIN	
MT20	650	371	1747	768	1987	1873	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (J) (INPUT = 0.90)
JSI METAL = 0.66 (C) (INPUT = 1.00)



Structural component only
DWG# T-2124029 1/2

JOB NAME 418363	TRUSS NAME T57	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 6.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 09:11:02 2021 Page 2
ID:QioK5APiQaBbkRIRWnRcQszKI98- AuLFv8tJx1B61Tv0odQBAIKIp4Jlbb7IFI77SvVEuN

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, Cp0g, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM, INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124029

[illegible]

JOB NAME 418363	TRUSS NAME T58	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri Jul 23 09:11:04 2021 Page 2
ID: 879KQ71H6SPnOId2DVSzKFyO-wY06pb97YHvMLd7DfuGbmsdcDYq7IC6CLwEuL

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

PLATES (Table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B. TMBMW1+H	MT20	10.0	12.0	5.75	0.25
C. TMMWW+H	MT20	5.0	6.0	3.00	1.75
D, F, I					
D. TMMWW-t	MT20	5.0	6.0		
E. TS-t	MT20	5.0	6.0		
G. TTWW+m	MT20	5.0	8.0		
H. TTWW+p	MT20	5.0	8.0		
J. TTWW-m	MT20	5.0	8.0	4.25	2.50
K. TTWW+m	MT20	5.0	8.0	3.25	4.00
L. TMMWWW-t	MT20	5.0	8.0		
M. TMBMW1m	MT20	7.0	12.0	3.75	6.00
N. BMW+w	MT20	10.0	12.0	0.50	5.25
P. BMWWW-t	MT20	6.0	9.0	5.50	3.00
Q, T, V, W		6.0	9.0		
R. BMW-t	MT20	5.0	6.0		
S. BS-t	MT20	6.0	9.0		
U. BMWWW-t	MT20	6.0	9.0		
V. BS-t	MT20	6.0	9.0		

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_{pe}$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM), INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2124030 202

JOB NAME 418363	TRUSS NAME T59	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 5 Jan 21 2021 MITek Industries, Inc. Fri Jul 23 09:11:06 2021 Page 2 ID:0lk5APIQaBbkRIRWnRoQszKI98-sx8s5HBNN9XdbfmhFehMLowycRQDhPgao0hDGDvyeUj	

PLATES (table is in inches)						SPECIFIED CONCENTRATED LOADS (LBS)										PLATE PLACEMENT TOL. = 0.250 inches	
JT	TYPE	PLATES	W	LEN	Y X	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.		
B	TMWW-p	MT20	6.0	9.0	Edge	C	5-10-8	-151	-196	38	FRONT	VERT	TOTAL	-	C1		
C	TTWW+m	MT20	7.0	8.0	Edge	C	5-10-8	-216	-378	-	BACK	VERT	TOTAL	-	C1		
D	TMWW-t	MT20	4.0	6.0		T	12-0-8	-1904	-1904	-	BACK	VERT	TOTAL	-	C1		
E	TTWW+m	MT20	7.0	8.0		U	5-11-4	-21	-21	-	BACK	VERT	TOTAL	-	C1		
F	TTWW+m	MT20	6.0	9.0	Edge 2.25	W	7-1-4	-60	-127	-	BACK	VERT	TOTAL	-	C1		
G	TMWW-w	MT20	3.0	6.0		X	8-1-4	-60	-127	-	BACK	VERT	TOTAL	-	C1		
H	TTWW+m	MT20	5.0	8.0	Edge	Y	10-1-4	-60	-127	-	BACK	VERT	TOTAL	-	C1		
I	TMWW-t	MT20	4.0	4.0	2.00 1.75	Z	1-11-4	-20	-20	-	BACK	VERT	TOTAL	-	C1		
J	TMWW-p	MT20	5.0	8.0	1.50 3.75	AA	3-11-4	-21	-21	-	BACK	VERT	TOTAL	-	C1		
L	BMV1-p	MT20	3.0	6.0		AB	7-1-4	-21	-21	-	BACK	VERT	TOTAL	-	C1		
M	BMWW-t	MT20	5.0	8.0	2.50 3.75	AC	8-1-4	-21	-21	-	BACK	VERT	TOTAL	-	C1		
N	BMWW-t	MT20	4.0	6.0		AD	10-1-4	-21	-21	-	BACK	VERT	TOTAL	-	C1		
O	BS-t	MT20	5.0	8.0													
P	BMWW-t	MT20	5.0	8.0	2.50 2.50												
Q	BMWW-t	MT20	7.0	8.0	3.00 4.00												
R	BS-t	MIN6	5.0	12.5													
S	BMWW-t	MT20	4.0	8.0													
T	BMWW-t	MT20	5.0	8.0	2.50 3.00												
U	BMWW-t	MT20	8.0	10.0													
V	BMV1-p	MT20	3.0	6.0													

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

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (b)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe}, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124031 *212*

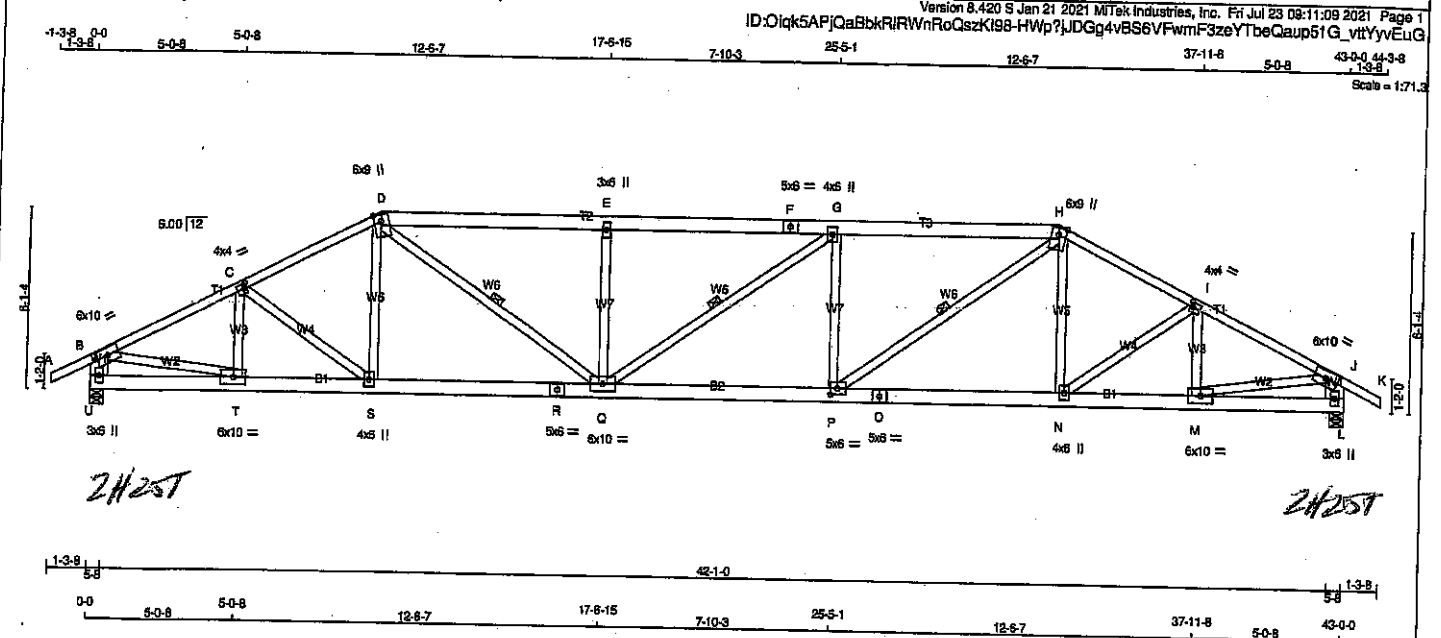
JOB NAME 418363	TRUSS NAME T60	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 09:11:07 2021 Page 2 ID:Olk5AP QaBbkRfRWnRoQszK 98-K7 EdB08T UDoLtoL CouDT78giiQvAkpaQmpvrvEul	

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM, INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2), BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124032 *2/2*

JOB NAME 418363	TRUSS NAME T61	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:11:09 2021 Page 1	



LUMBER
N.L.G.A. RULES
CHORDS SIZE LUMBER DESCR. SPF
A - D 2x4 DRY 1650F 1.5E No.2
E - H 2x4 DRY 1650F 1.5E No.2
I - K 2x4 DRY 1650F 1.5E No.2
L - J 2x4 DRY No.2
M - R 2x4 DRY No.2
S - O 2x4 DRY No.2
P - L 2x4 DRY No.2
Q - L 2x4 DRY No.2
R - O 2x4 DRY No.2
S - O 2x4 DRY No.2
T - L 2x4 DRY No.2
U - J 2x4 DRY No.2
V - I 2x4 DRY No.2
W - H 2x4 DRY No.2
X - G 2x4 DRY No.2
Y - F 2x4 DRY No.2
Z - E 2x4 DRY No.2
ALL WEBS 2x4 DRY No.2
EXCEPT
DRY, SEASONED LUMBER.

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX
U	3483	0	3560	-158	-1109	5-8	5-8
L	3483	0	3560	0	-1109	5-8	5-8

PROVIDE ANCHORAGE AT BEARING JOINT U FOR 1109 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1109 LBS. FACTORED UPLIFT
PROVIDE FOR 158 LBS. FACTORED HORIZONTAL REACTION AT JOINT U

UNFACTORED REACTIONS
1ST LOSE MAX/MIN. COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	2572	1578 / 0	452 / 0	0 / 0	0 / -1078	582 / 0	0 / 0
L	2572	1578 / 0	452 / 0	0 / 0	28 / -1078	582 / 0	0 / 0

HORIZONTAL REACTIONS
U 0 / 0 0 / 0 0 / 0 113 / -113 0 / 0 0 / 0

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 2.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.90 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO				FR-TO			
A-B	0 / 41	-115.2	-115.2	0.15 (2)	10.00	T-C	-587 / 277
B-C	-5088 / 1543	-115.2	-115.2	0.72 (2)	3.06	C-S	-198 / 385
C-D	-5037 / 1698	-115.2	-115.2	0.69 (2)	3.10	S-D	-67 / 439
D-E	-6259 / 2126	-115.2	-115.2	0.78 (1)	2.91	N-H	-65 / 437
E-F	-6259 / 2125	-115.2	-115.2	0.78 (1)	2.89	N-I	-219 / 364
F-G	-6259 / 2125	-115.2	-115.2	0.78 (1)	2.89	M-I	-588 / 276
G-H	-6259 / 2129	-115.2	-115.2	0.78 (1)	2.89	B-T	-1365 / 4834
H-I	-5038 / 1698	-115.2	-115.2	0.69 (3)	3.10	M-J	-1365 / 4834
I-J	-5088 / 1643	-115.2	-115.2	0.72 (3)	3.08	P-H	-811 / 2437
J-K	0 / 41	-115.2	-115.2	0.15 (3)	10.00	D-Q	-607 / 2432
U-B	-3441 / 1117	0.0	0.0	0.17 (2)	6.44	P-Q	-1137 / 556
L-J	-3441 / 1117	0.0	0.0	0.17 (3)	6.44	Q-E	-1002 / 516
U-T	-142 / 183	-39.5	-39.5	0.12 (5)	6.25	Q-G	-235 / 228
T-S	-1481 / 4580	-39.5	-39.5	0.65 (2)	6.25		
S-R	-1329 / 4483	-39.5	-39.5	0.64 (1)	6.25		
R-Q	-1329 / 4483	-39.5	-39.5	0.64 (1)	6.25		
Q-P	-1818 / 6262	-39.5	-39.5	0.85 (1)	5.90		
P-O	-1182 / 4482	-39.5	-39.5	0.84 (1)	6.25		
O-N	-1182 / 4482	-39.5	-39.5	0.84 (1)	6.25		
N-M	-1334 / 4580	-39.5	-39.5	0.65 (3)	6.25		
M-L	-8 / 16	-39.5	-39.5	0.12 (6)	10.00		

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(b)

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF
SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12
THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015
THIS DESIGN COMPLIES WITH:
- PART 4 OF BCBC 2018, ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014
DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.
(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD
ALLOWABLE DEFL.(LL) = L/360 (1.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.84")
ALLOWABLE DEFL.(TL) = L/180 (2.87")
CALCULATED VERT. DEFL.(TL) = L/999 (0.47")
OSI: TC=0.79/1.00 (E-G:1), BC=0.85/1.00 (P-Q:1), WB=0.74/1.00 (J-M:3), SS=0.32/1.00 (G-H:2)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10
WIND LOAD IMPORTANCE FACTOR = 1.00
SNOW LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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 650 371 1747 769 1987 1873
PLATE PLACEMENT TOL = 0.250 inches
PLATE ROTATION TOL = 5.0 Deg.
JSI GRIP = 0.89 (P) (INPUT = 0.80)
JSI METAL = 0.80 (R) (INPUT = 1.00)

Structural component only
DWG# T-2124033



JOB NAME 418363	TRUSS NAME T61	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	
Version 8.420 5 Jan 21 2021 MTEK Industries, Inc. Fri Jul 23 08:11:09 2021 Page 2 ID:QickSAPIQaBbkRIRWhRoCszKI98-HWp?IJDGa4vBS6VFwmF3zeYTbeQaup51G_vitYwEuG					

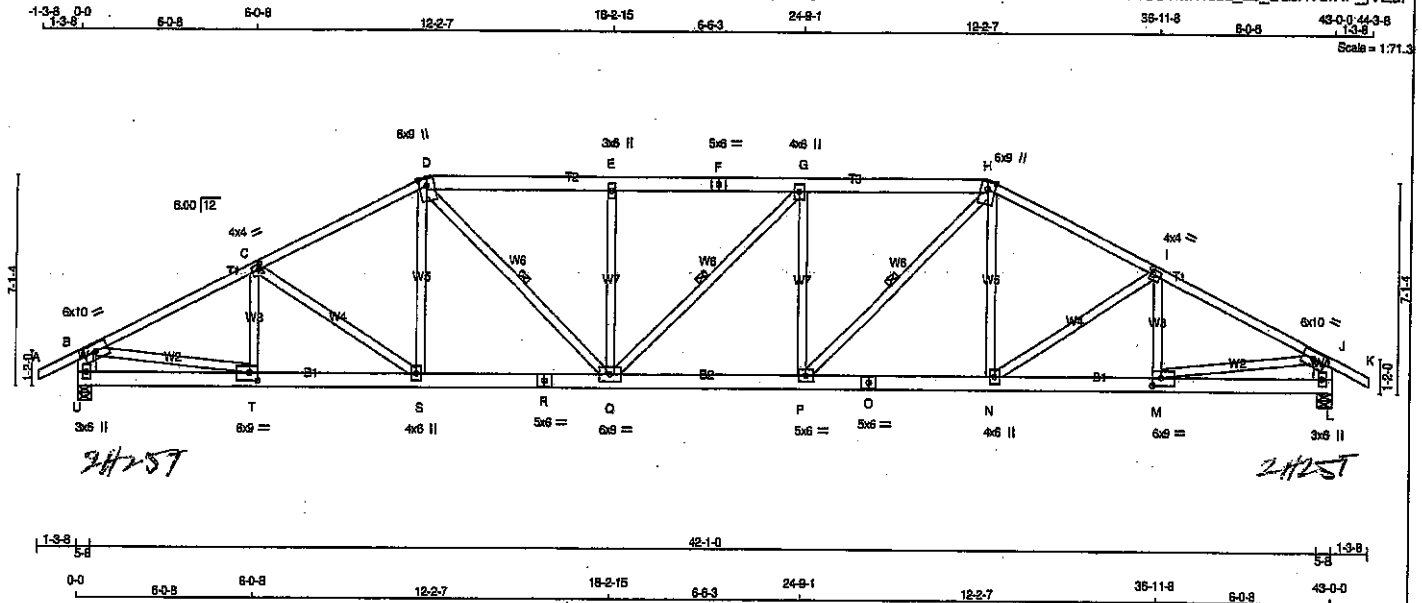
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124033 *ML*

JOB NAME 418363	TRUSS NAME T62	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mtek Industries, Inc. Fri Jul 23 09:11:10 2021 Page 1
ID: Ciqk5APQaBbkRIRWnRQzK198-jINNweEuRO124G4SUTmWsd_2o_dGBAVeRP_yvEuF



TOTAL WEIGHT = 242 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	SPF
D - F	2x8	DRY	No.2
F - H	2x8	DRY	No.2
H - K	2x4	DRY	SPF
U - B	2x8	DRY	No.2
L - J	2x8	DRY	No.2
U - R	2x8	DRY	No.2
R - O	2x8	DRY	No.2
O - L	2x8	DRY	No.2

ALL WEBS 2x4 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWV-t	MT20	6.0	10.0		
C TMWV-t	MT20	4.0	4.0	2.00	1.25
D TTWW+m	MT20	6.0	9.0	Edge	
E TMWV-t	MT20	3.0	6.0		
F TS-t	MT20	5.0	6.0		
G TMWV-t	MT20	4.0	6.0		
H TTWW+m	MT20	6.0	9.0	Edge	
I TMWV-t	MT20	4.0	4.0	2.00	1.25
J TMWV-t	MT20	6.0	10.0		
L BMV1-p	MT20	3.0	6.0		
M BMWV-t	MT20	6.0	9.0	3.25	3.50
N BMWV-t	MT20	4.0	6.0		
O BS-t	MT20	5.0	6.0		
P BMWV-t	MT20	5.0	6.0		
Q BMWV-t	MT20	6.0	9.0		
R BS-t	MT20	5.0	6.0		
S BMWV-t	MT20	4.0	6.0		
T BMWV-t	MT20	6.0	9.0	3.25	3.50
U BMV1-p	MT20	3.0	6.0		

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

NOTES

1) Lateral braces to be a minimum of 2x4 SPF #2.

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	HORIZ	UPLIFT
U	3483	0	3537	-178
L	3483	0	3537	-1092

PROVIDE ANCHORAGE AT BEARING JOINT U FOR 1092 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1092 LBS FACTORED UPLIFT

PROVIDE FOR 178 LBS FACTORED HORIZONTAL REACTION AT JOINT U

UNFACTORED REACTIONS

1ST CASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	2572	1583 / 0	452 / 0	0 / 0	0 / -1065	592 / 0	0 / 0
L	2572	1583 / 0	452 / 0	0 / 0	47 / -1065	592 / 0	0 / 0

HORIZONTAL REACTIONS

U	0 / 0	0 / 0	0 / 0	127 / -127	0 / 0	0 / 0
---	-------	-------	-------	------------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 3.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 41	-115.2 -115.2	0.11 (2)	10.00	T-C	-441 / 249	0.07 (8)
B-C	-5189 / 1649	-115.2 -115.2	0.88 (2)	3.16	C-S	-582 / 317	0.35 (2)
C-D	-4844 / 1625	-115.2 -115.2	0.79 (2)	3.34	S-D	-138 / 597	0.10 (2)
D-E	-5334 / 1824	-115.2 -115.2	0.48 (1)	3.42	N-H	-138 / 593	0.10 (3)
E-F	-5334 / 1822	-115.2 -115.2	0.49 (1)	3.42	N-I	-583 / 318	0.35 (3)
F-G	-5334 / 1822	-115.2 -115.2	0.49 (1)	3.42	M-I	-445 / 248	0.07 (8)
G-H	-5339 / 1827	-115.2 -115.2	0.49 (1)	3.42	B-T	-1352 / 4710	0.76 (1)
H-I	-4843 / 1625	-115.2 -115.2	0.79 (3)	3.34	M-J	-1352 / 4711	0.76 (1)
I-J	-5190 / 1649	-115.2 -115.2	0.88 (3)	3.16	P-H	-587 / 1774	0.29 (2)
J-K	0 / 44	-115.2 -115.2	0.11 (3)	10.00	D-Q	-582 / 1787	0.28 (3)
U-B	-3416 / 1106	0.0	0.37 (2)	8.45	P-G	-1028 / 486	0.58 (2)
L-J	-3418 / 1106	0.0	0.17 (3)	6.45	Q-E	-833 / 428	0.46 (1)
					Q-G	-279 / 267	0.12 (3)
U-T	-161 / 189	-39.5 -39.5	0.14 (5)	6.25			
T-S	-1500 / 4672	-39.5 -39.5	0.84 (1)	6.25			
S-R	-1233 / 4299	-39.5 -39.5	0.80 (1)	6.25			
R-Q	-1233 / 4299	-39.5 -39.5	0.80 (1)	6.25			
Q-P	-1473 / 5338	-39.5 -39.5	0.71 (3)	6.25			
P-O	-1068 / 4299	-39.5 -39.5	0.60 (1)	6.25			
O-N	-1068 / 4299	-39.5 -39.5	0.80 (1)	6.25			
N-M	-1326 / 4672	-39.5 -39.5	0.84 (1)	6.25			
M-L	-8 / 16	-39.5 -39.5	0.14 (6)	10.00			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.8.2.(8)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	33.4	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	57.3	PSF

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF BCBC 2018, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.27")
ALLOWABLE DEFL.(TL) = L/180 (2.87")
CALCULATED VERT. DEFL.(TL) = L/999 (0.37")

CSI: TC=0.88/1.00 (I-J-3), BC=0.71/1.00 (P-Q-1),
WB=0.78/1.00 (J-K-1), SS=0.35/1.00 (I-J-3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.88 (M) (INPUT = 0.90)
JSI METAL=0.80 (R) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2124034

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK HOMES	DRWG NO.
418363	T62	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri Jul 23 09:11:10 2021 Page 2
ID:0ick5APIQaBbkRIRWnRcQszKl88-IINNweEuRO124G4SUTmiWs5d 2o dG8AVeRP wEuF

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124034 *YH*

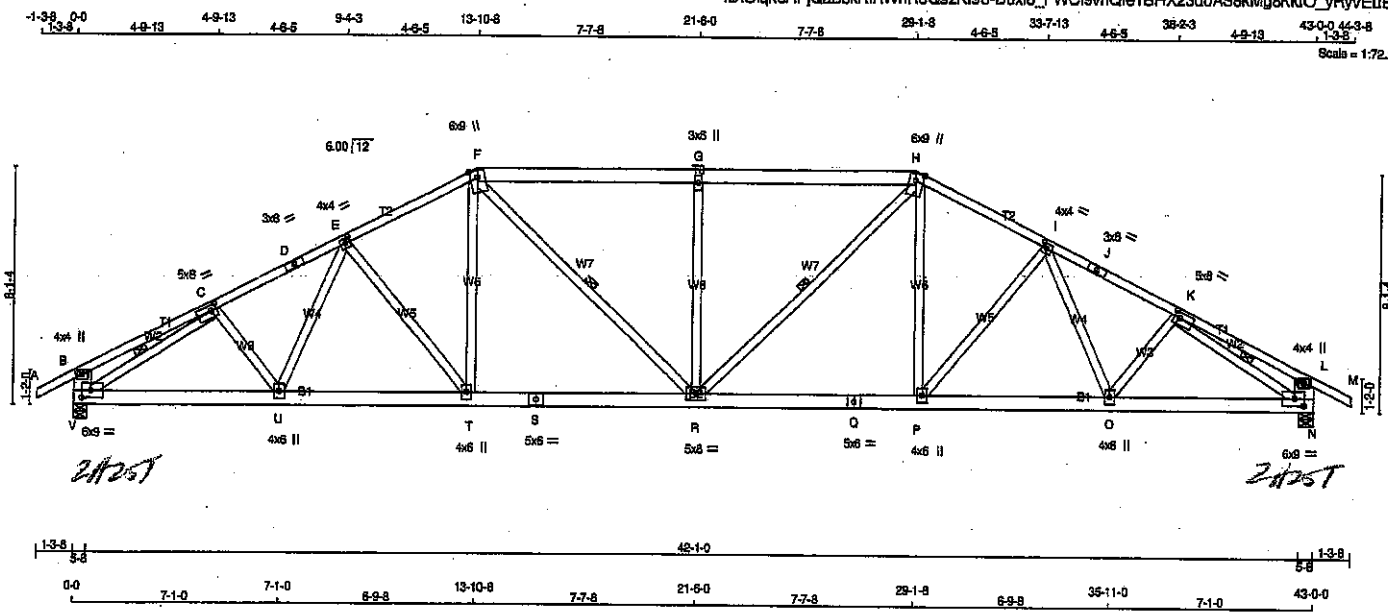
JOB NAME 418363	TRUSS NAME T63	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:11:11 2021 Page 1

ID:Oiqk5APjQaBbkRIRWnRoQszK198-Duxi8_FWCi9vHCre1BHX23doAS8kMg8KkdO_yRyvEuE

Scale = 1/72.2



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - M	2x4	DRY	No.2
V - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
V - S	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2

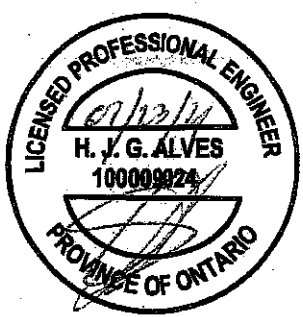
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	4.0	4.0		
C	TMWW-t	MT20	5.0	8.0	2.25	2.25
D	TS-t	MT20	3.0	8.0		
E	TMWW-t	MT20	4.0	4.0	2.00	1.75
F	TTWW+m	MT20	5.0	9.0	Edge	
G	TMWW+m	MT20	3.0	6.0		
H	TTWW+m	MT20	6.0	9.0	Edge	
I	TMWW-t	MT20	4.0	4.0	2.00	1.75
J	TS-t	MT20	3.0	8.0		
K	TMWW-t	MT20	5.0	8.0	2.25	2.25
L	TMV+p	MT20	4.0	4.0		
N	BMVW-t	MT20	6.0	9.0	3.00	3.75
O, P, T, U						
Q	BMVW-t	MT20	4.0	6.0		
R	BS-t	MT20	5.0	6.0		
S	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	8.0	9.0	3.00	3.75

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

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2124035

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORIZ
V	3483	0	3503	200
N	3483	0	3503	0

PROVIDE ANCHORAGE AT BEARING JOINT V FOR 1072 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1072 LBS. FACTORED UPLIFT

PROVIDE FOR 200 LBS. FACTORED HORIZONTAL REACTION AT JOINT V

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	DEAD	SOIL
V	2572	1541 / 0	452 / 0	0 / 0
N	2572	1541 / 0	452 / 0	0 / 0

HORIZONTAL REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	DEAD	SOIL
V	0 / 0	0 / 0	0 / 0	143 / -143
N	0 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 2.49 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OFF R, H-R, C-V, K-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: (18)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED	MAX. FACTORED	MEMB.	FORCE (LBS)	FACTORED	MAX. FACTORED
FR-TO				FR-TO			
A-B	0 / 41	-115.2	-115.2	C-U	-38 / 401	0.05	(3)
B-C	-9 / 133	-115.2	-115.2	U-E	-112 / 288	0.05	(10)
C-D	-5089 / 1681	-115.2	-115.2	E-T	-780 / 378	0.49	(2)
D-E	-5089 / 1681	-115.2	-115.2	T-F	-244 / 893	0.20	(13)
E-F	-4600 / 1559	-115.2	-115.2	F-R	-458 / 1380	0.28	(14)
F-G	-4601 / 1628	-115.2	-115.2	R-G	-1122 / 577	0.90	(1)
G-H	-4601 / 1628	-115.2	-115.2	P-H	-459 / 1380	0.28	(13)
H-I	-4600 / 1559	-115.2	-115.2	P-I	-244 / 893	0.20	(14)
I-J	-5089 / 1681	-115.2	-115.2	P-I	-780 / 378	0.49	(3)
J-K	-5089 / 1681	-115.2	-115.2	I-O	-123 / 268	0.05	(9)
K-L	-9 / 133	-115.2	-115.2	O-K	-50 / 1401	0.08	(2)
L-M	0 / 41	-115.2	-115.2	V-C	-5364 / 1552	0.83	(1)
V-B	-444 / 233	0.0	0.0	K-N	-5364 / 1552	0.83	(1)
N-L	-444 / 233	0.0	0.0				
V-U	-1477 / 4467	-39.5	-39.5				
U-T	-1358 / 4491	-39.5	-39.5				
T-S	-1117 / 4091	-39.5	-39.5				
S-R	-1117 / 4091	-39.5	-39.5				
R-Q	-963 / 4091	-39.5	-39.5				
Q-P	-963 / 4091	-39.5	-39.5				
P-O	-1158 / 4491	-39.5	-39.5				
O-N	-1277 / 4467	-39.5	-39.5				

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (8)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 33.4 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 21.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2015, ABC 2015
- PART 4 OF OSC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.25")
ALLOWABLE DEFL. (TL) = L/180 (2.67")
CALCULATED VERT. DEFL. (TL) = L/999 (0.35")

CSI: TC=0.85/1.00 (H-K), BC=0.67/1.00 (N-O), WB=0.90/1.00 (G-R), SS=0.33/1.00 (F-G-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

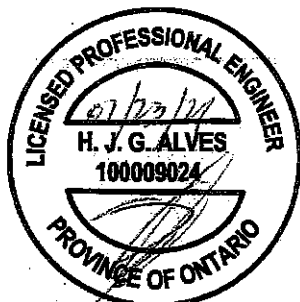
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (V) (INPUT = 0.90)
JSI METAL = 0.95 (C) (INPUT = 1.00)

JOB NAME 418363	TRUSS NAME T63	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:11:11 2021 Page 2
ID:OicK5APiQaBbkRIRWnRoQszKl9B-Duxl8 FWCi9vQfe1BHx23dqAS8kMg8KkIO yRvvEuE

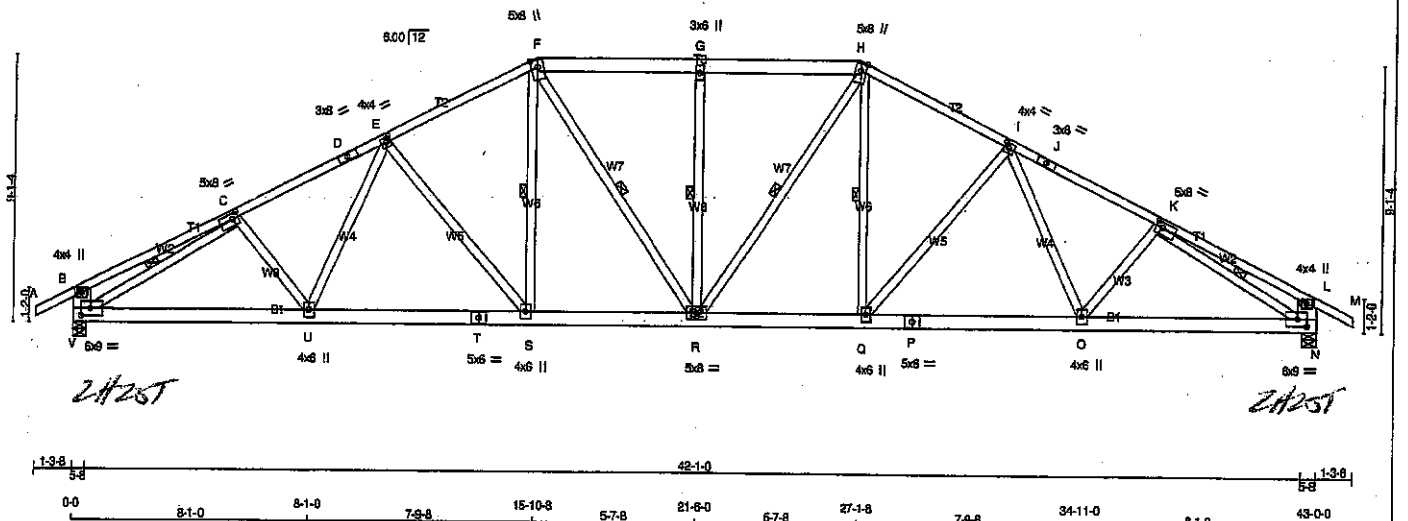
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124035 *mn*

JOB NAME 418363	TRUSS NAME T64	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 09:11:12 2021 Page 1
ID:O1qk5APJQaBbKRIWnRoQszK98-h5V7LKf8z7HmJaEqbuombHA7vrTV57BTzy8XUtyvEuD
Scale = 1:72.2



LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	1850F 1.5E
D - F	2x4	DRY	1850F 1.5E
F - H	2x6	DRY	No.2
H - J	2x4	DRY	1850F 1.5E
J - M	2x4	DRY	1850F 1.5E
V - B	2x8	DRY	No.2
N - L	2x8	DRY	No.2
V - T	2x6	DRY	No.2
T - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
ALL WEBS 2x4 DRY No.2 SPF			
EXCEPT			
V - C	2x4	DRY	1850F 1.5E
K - N	2x4	DRY	1850F 1.5E
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW+p	MT20	4.0	4.0		
C TMWW-t	MT20	5.0	8.0	2.25	2.50
D TS-t	MT20	3.0	8.0		
E TMWW-t	MT20	4.0	4.0	2.00	1.75
F TTWW+m	MT20	5.0	8.0		Edge
G TMW+w	MT20	3.0	6.0		
H TTWW+m	MT20	5.0	8.0		Edge
I TMWW-t	MT20	4.0	4.0	2.00	1.75
J TS-t	MT20	3.0	8.0		
K TMWW-t	MT20	5.0	8.0	2.25	2.50
L TMW+p	MT20	4.0	4.0		
N BMWW-t	MT20	6.0	9.0	3.00	3.75
O, Q, S, U					
O BMWW-t	MT20	4.0	6.0		
P BS-t	MT20	5.0	6.0		
R BMWW-t	MT20	5.0	8.0		
T BS-t	MT20	5.0	6.0		
V BMWW-t	MT20	6.0	9.0	3.00	3.75

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

NOTES (1)



Structural component only
DWG# T-2124036

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	3483	0	3483	227
V	3483	0	3483	227
N	3483	0	3483	227

PROVIDE ANCHORAGE AT BEARING JOINT V FOR 1049 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1049 LBS. FACTORED UPLIFT

PROVIDE FOR 227 LBS. FACTORED HORIZONTAL REACTION AT JOINT V

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN. COMPONENT REACTIONS					
	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
V	2572	1528 / 0	452 / 0	0 / 0	0 / 0	0 / 0	0 / 0
N	2572	1528 / 0	452 / 0	0 / 0	0 / 0	0 / 0	0 / 0

HORIZONTAL REACTIONS

V	0 / 0	0 / 0	0 / 0	162 / 162	0 / 0	0 / 0
---	-------	-------	-------	-----------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 3.16 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-S, F-R, G-R, H-R, H-Q, C-V, K-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: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC)
FR-TO				FR-TO			
A-B	0 / 41	-115.2	-115.2 0.15 (2)	C-U	-200 / 318	0.05 (3)	
B-C	-8 / 143	-115.2	-115.2 0.40 (2)	U-E	-108 / 473	0.08 (5)	
C-D	-5079 / 1622	-115.2	-115.2 0.72 (2)	E-S	-1005 / 470	0.91 (2)	
D-E	-5079 / 1622	-115.2	-115.2 0.72 (2)	S-F	-312 / 1051	0.17 (2)	
E-F	-4341 / 1454	-115.2	-115.2 0.62 (2)	F-R	-342 / 1030	0.18 (14)	
F-G	-4190 / 1426	-115.2	-115.2 0.37 (1)	R-G	-837 / 427	0.30 (1)	
G-H	-4190 / 1426	-115.2	-115.2 0.37 (1)	H-R	-342 / 1030	0.18 (13)	
H-I	-4341 / 1454	-115.2	-115.2 0.72 (2)	Q-H	-313 / 1051	0.17 (3)	
I-J	-5079 / 1622	-115.2	-115.2 0.72 (2)	I-Q	-1005 / 470	0.91 (3)	
J-K	-5079 / 1622	-115.2	-115.2 0.72 (2)	L-Q	-108 / 473	0.08 (6)	
K-L	-9 / 143	-115.2	-115.2 0.40 (3)	O-K	-208 / 318	0.05 (2)	
L-M	0 / 41	-115.2	-115.2 0.15 (3)	V-C	-5412 / 1514	0.70 (1)	
V-B	-478 / 253	0.0	0.0 0.02 (2)	K-N	-5412 / 1514	0.70 (1)	
N-L	-478 / 253	0.0	0.0 0.02 (3)				
V-U	-1485 / 4550	-39.5	-39.5 0.70 (1)				
U-T	-1292 / 4400	-39.5	-39.5 0.82 (1)				
T-S	-1292 / 4400	-39.5	-39.5 0.82 (1)				
S-R	-988 / 3853	-39.5	-39.5 0.55 (1)				
R-Q	-858 / 3853	-39.5	-39.5 0.55 (1)				
Q-P	-1066 / 4400	-39.5	-39.5 0.82 (1)				
P-O	-1066 / 4400	-39.5	-39.5 0.82 (1)				
O-N	-1256 / 4550	-39.5	-39.5 0.70 (1)				

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2(B)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 33.4 PSF
DL = 8.0 PSF	
BOT CH.	LL = 10.5 PSF
DL = 7.4 PSF	
TOTAL LOAD = 57.3 PSF	

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF BCBC 2018, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.23")
ALLOWABLE DEFL.(TL) = L/180 (2.87")
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")

CSI: TC=0.72/1.00 (H-K), SC=0.70/1.00 (U-V);
WB=0.91/1.00 (I-Q), SS=0.30/1.00 (K-L)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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	850	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.80)
JSI METAL= 0.96 (K) (INPUT = 1.00)

CONTINUED ON PAGE 2

JOB NAME 418363	TRUSS NAME T64	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:11:12 2021 Page 2

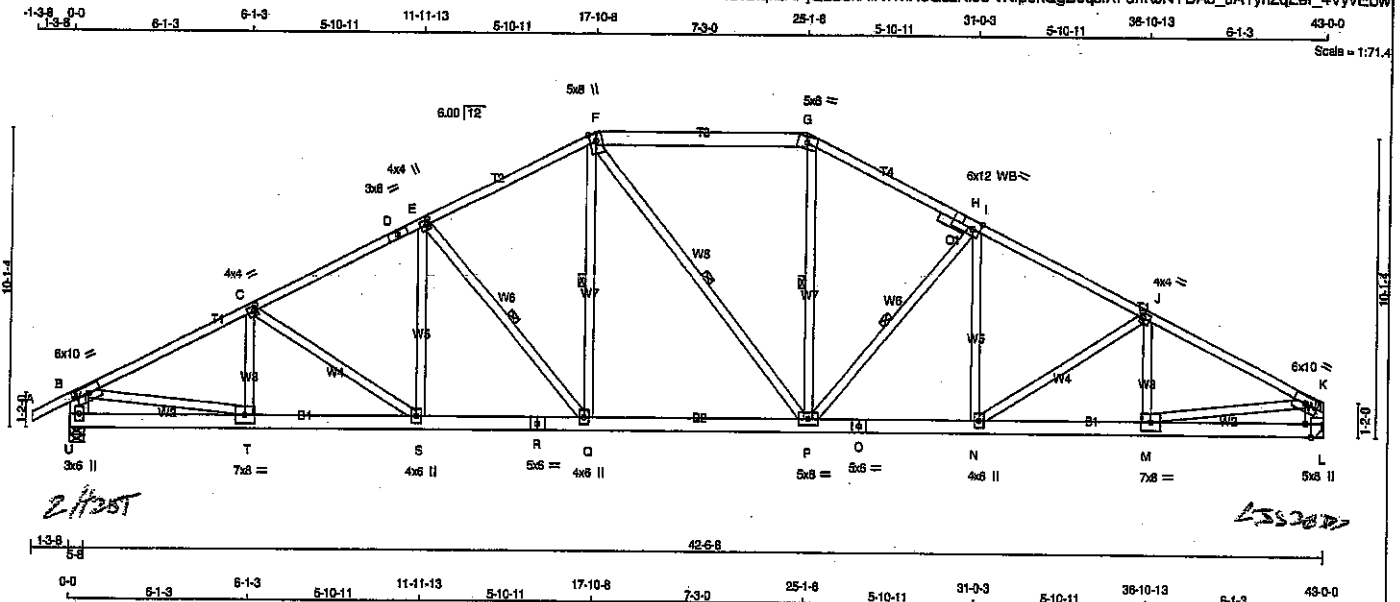
ID:OioK5APIQaBbkRIRWnRoQszKI88-h5V7LKf8z?HmJaEqbuombHA?vrTV57BTzy8XUtyvEuD

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only
DWG# T-2124036 *ML*

JOB NAME 418363	TRUSS NAME T65	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 5 Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:30:43 2021 Page 1 ID:Oiqk5APJQaBbkRIRWnRoGszKI9B-vNlp6KqBgocIXFuhKJNYDA6_uATynZqEaI_4VyyEbw	



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	2100F 1.8E
D - F	2x4	DRY	2100F 1.8E
F - G	2x6	DRY	No.2
G - H	2x4	DRY	2100F 1.8E
H - K	2x4	DRY	2100F 1.8E
U - B	2x8	DRY	No.2
L - K	2x8	DRY	No.2
U - R	2x6	DRY	No.2
R - O	2x6	DRY	No.2
O - L	2x6	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMWW-t	MT20	6.0	10.0		
C TMWW-t	MT20	4.0	4.0	2.00	1.25
D TS-t	MT20	3.0	8.0		
E TMWW-t	MT20	4.0	4.0	2.00	1.25
F TTWW-m	MT20	5.0	8.0	Edge	
G TTW-m	MT20	5.0	8.0		
H H	TSWW-t	MT20	6.0	12.0	Edge 3.00
I					
J TMWW-t	MT20	4.0	4.0	2.00	1.25
K TMWW-t	MT20	6.0	10.0		
L BMV-t	MT20	5.0	8.0	Edge	2.25
M BMWW-t	MT20	7.0	8.0		
N, Q, S					
O BMWW-t	MT20	4.0	6.0		
P BS-t	MT20	5.0	6.0		
P BMWW-t	MT20	5.0	8.0		
R BS-t	MT20	5.0	6.0		
T BMWW-t	MT20	7.0	8.0		
U BMV-t	MT20	3.0	8.0		

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

WB - INDICATES BLOCKING REQUIRED

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG	BRG
U	3483	0	3483	271	-1022	5-8	5-8		
L	3327	0	3327	0	-964	MECHANICAL			

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

PROVIDE ANCHORAGE AT BEARING JOINT U FOR 1022 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT L FOR 964 LBS. FACTORED UPLIFT

PROVIDE FOR 271 LBS. FACTORED HORIZONTAL REACTION AT JOINT U

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
U	2572	1528 / 0	452 / 0	0 / 0	30 / -1015	592 / 0	0 / 0		
L	2465	1437 / 0	452 / 0	0 / 0	101 / -985	576 / 0	0 / 0		

HORIZONTAL REACTIONS

U	0 / 0	0 / 0	0 / 0	194 / -155	0 / 0	0 / 0			
---	-------	-------	-------	------------	-------	-------	--	--	--

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 3.42 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 41	T-C	-419 / 228
B-C	-5180 / 1513	C-S	-570 / 288
C-D	-4825 / 1493	S-E	-115 / 534
D-E	-4825 / 1493	E-Q	-1273 / 555
E-F	-4067 / 1332	Q-F	-380 / 1242
F-G	-3608 / 1273	F-P	-551 / 558
G-H	-4070 / 1332	P-G	-283 / 1099
H-I	-4070 / 1332	P-I	-1268 / 552
I-J	-4824 / 1493	N-I	-112 / 529
J-K	-5181 / 1507	N-J	-572 / 285
U-B	-3366 / 1037	M-J	-423 / 232
L-K	-3210 / 979	B-T	-1225 / 4685
		M-K	-1256 / 4696
U-T	-256 / 233		
T-S	-1471 / 4658		
S-R	-1229 / 4316		
R-Q	-1229 / 4316		
Q-P	-864 / 3603		
P-O	-991 / 4315		
O-N	-991 / 4315		
N-M	-1230 / 4659		
M-L	-8 / 16		

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.8.2.(b)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	33.4	PSF
D.L	=	8.0	PSF
BOT CH. LL	=	10.5	PSF
D.L	=	7.4	PSF
TOTAL LOAD	=	57.3	PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF CBC 2015, ABC 2019
- PART 4 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.43")
CALCULATED VERT. DEFL. (LL) = L/999 (0.22")
ALLOWABLE DEFL. (TL) = L/180 (2.67")
CALCULATED VERT. DEFL. (TL) = L/999 (0.32")

CSI: TC=0.75/1.00 (J-K-3), BC=0.64/1.00 (M-N-1), WB=0.75/1.00 (K-M-1), SS=0.34/1.00 (J-K-3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

CONTINUED ON PAGE 2



Structural component only
DWG# T-2124037

JOB NAME 418363	TRUSS NAME T65	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

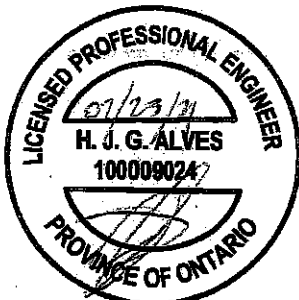
Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 08:30:43 2021 Page 2

ID:OicK6APiQaBbkRIRWnRoQszKI98-vNip8kCqBocclXFuhKJNYDA6 uATynZqEel 4VvYEbw

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, $C_p C_g$, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

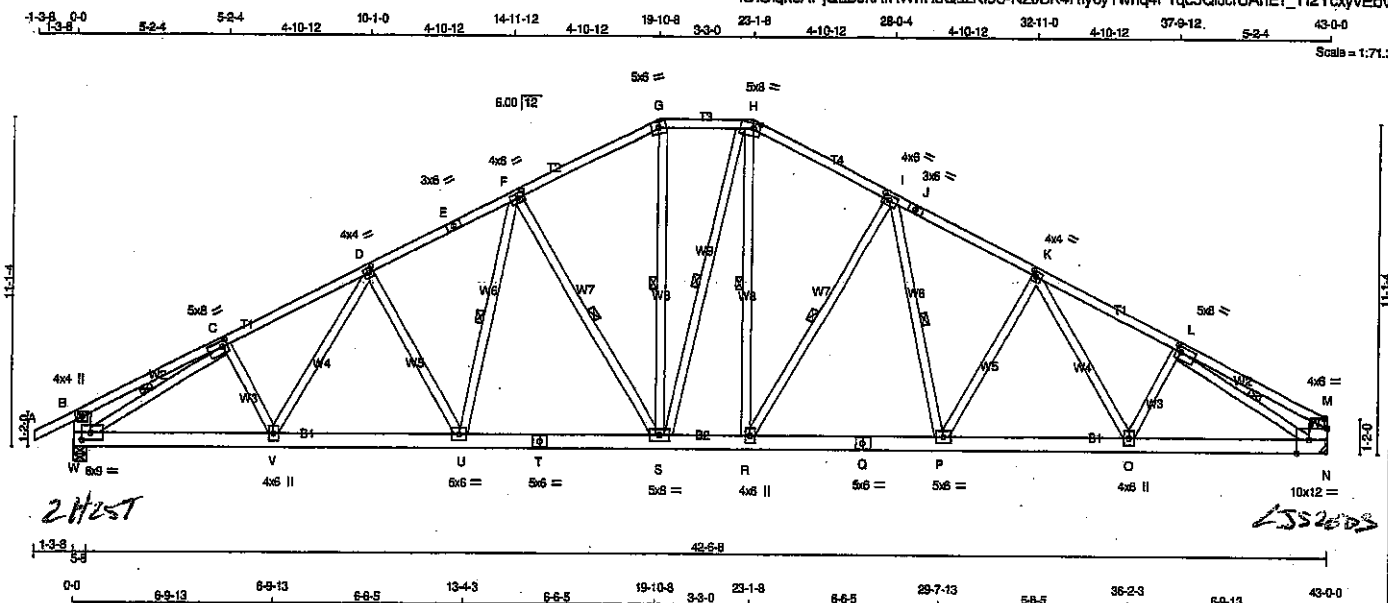


Structural component only
DWG# T-2124037 *3/21*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
418363	T66	1	1	GREENPARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.420 5 Jan 21 2021 Mitek Industries, Inc. Fri Jul 23 09:30:44 2021 Page 1
ID:Olk5APjQaBbkRIRWnRoQszK198-NZJBK4Rly6yTwhq4F1qc5QJclUAHE?_T12YcyvEbv



LUMBER	N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR
A - E	2x4	DRY	1850F 1.5E	SPF	
E - G	2x4	DRY	1850F 1.5E	SPF	
G - H	2x4	DRY	No.2	SPF	
H - J	2x4	DRY	1850F 1.5E	SPF	
J - M	2x4	DRY	1850F 1.5E	SPF	
W - B	2x8	DRY	No.2	SPF	
N - M	2x8	DRY	No.2	SPF	
W - T	2x6	DRY	No.2	SPF	
T - Q	2x6	DRY	No.2	SPF	
Q - N	2x6	DRY	No.2	SPF	
ALL WEBS	2x4	DRY	No.2	SPF	
EXCEPT					
W - C	2x4	DRY	1850F 1.5E	SPF	
L - N	2x4	DRY	1850F 1.5E	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	4.0	4.0		
C TMWW-t	MT20	5.0	8.0	2.25	2.00
D TMWW-t	MT20	4.0	4.0	2.00	1.75
E TS-t	MT20	3.0	6.0		
F TMWW-t	MT20	4.0	6.0	2.00	2.75
G TTW-m	MT20	5.0	6.0		
H TTWW-m	MT20	5.0	8.0	2.00	2.75
I TMWW-t	MT20	4.0	6.0	2.00	2.75
J TS-t	MT20	3.0	6.0		
K TMWW-t	MT20	4.0	4.0	2.00	1.75
L TMWW-t	MT20	5.0	8.0	2.25	2.00
M TMV-p	MT20	4.0	6.0	4.00	0.75
N BMVW-t	MT20	10.0	12.0	Edge	4.75
O R, V					
P BMWW-t	MT20	4.0	6.0		
Q BMWW-t	MT20	5.0	6.0		
R BS-t	MT20	5.0	6.0		
S BMWWW-t	MT20	5.0	6.0		
T BS-t	MT20	5.0	6.0		
U BMWW-t	MT20	5.0	6.0		
V BMVW-t	MT20	8.0	9.0	3.00	3.75

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
W	3483	0	3483	299	-392	5-8	5-8
N	3327	0	3327	0	-834	MECHANICAL	

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

PROVIDE ANCHORAGE AT BEARING JOINT W FOR 892 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT N FOR 894 LBS. FACTORED UPLIFT

PROVIDE FOR 299 LBS. FACTORED HORIZONTAL REACTION AT JOINT W

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN.	COMPONENT REACTIONS				
W	2572	1528 / 0	452 / 0	0 / 0	75 / -894	592 / 0	0 / 0
N	2465	1437 / 0	452 / 0	0 / 0	113 / -943	576 / 0	0 / 0

HORIZONTAL REACTIONS

W	0 / 0	0 / 0	0 / 0	219 / -175	0 / 0	0 / 0
---	-------	-------	-------	------------	-------	-------

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 3.23 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-U, F-S, G-S, H-S, I-R, I-P, C-W, L-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: (18)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 41	-115.2 -115.2	0.15 (2)	10.00	C-V	-173 / 294	0.05 (3)
B-C	-8 / 137	-115.2 -115.2	0.37 (2)	10.00	V-D	-145 / 403	0.08 (13)
C-D	-5089 / 1551	-115.2 -115.2	0.83 (2)	3.23	D-U	-790 / 403	0.44 (2)
D-E	-4601 / 1435	-115.2 -115.2	0.58 (2)	3.39	U-F	-301 / 984	0.15 (2)
E-F	-4601 / 1435	-115.2 -115.2	0.58 (2)	3.39	F-S	-1446 / 823	0.67 (2)
F-G	-3734 / 1218	-115.2 -115.2	0.50 (2)	3.77	S-G	-377 / 1253	0.23 (14)
G-H	-3232 / 1161	-115.2 -115.2	0.34 (1)	3.54	H-H	-523 / 572	0.35 (3)
H-I	-3725 / 1215	-115.2 -115.2	0.49 (3)	3.77	I-H	-478 / 1379	0.29 (14)
I-J	-4605 / 1433	-115.2 -115.2	0.57 (3)	3.39	R-I	-1457 / 825	0.68 (3)
J-K	-4605 / 1433	-115.2 -115.2	0.57 (3)	3.39	I-P	-305 / 989	0.16 (3)
K-L	-5097 / 1546	-115.2 -115.2	0.83 (3)	3.23	P-K	-788 / 400	0.44 (3)
L-M	-10 / 97	-115.2 -115.2	0.37 (3)	6.25	O-L	-140 / 288	0.08 (14)
W-B	-459 / 241	0.0 0.0	0.02 (2)	7.81	K-O	-176 / 284	0.05 (2)
N-M	-277 / 164	0.0 0.0	0.01 (14)	7.81	W-C	-5417 / 1408	0.63 (1)
					L-N	-5415 / 1443	0.63 (1)
W-V	-1482 / 4536	-39.5 -39.5	0.67 (1)	6.25			
V-U	-1284 / 4428	-39.5 -39.5	0.61 (1)	6.25			
U-T	-1028 / 3953	-39.5 -39.5	0.56 (1)	6.25			
T-S	-1028 / 3953	-39.5 -39.5	0.56 (1)	6.25			
S-R	-654 / 3323	-39.5 -39.5	0.49 (1)	6.25			
R-Q	-819 / 3952	-39.5 -39.5	0.56 (1)	6.25			
Q-P	-819 / 3952	-39.5 -39.5	0.56 (1)	6.25			
P-O	-1018 / 4430	-39.5 -39.5	0.61 (1)	6.25			
O-N	-1193 / 4535	-39.5 -39.5	0.67 (1)	6.25			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 33.4	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 57.3	PSF

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 4 OF CBC 2018, ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPACTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.43')
CALCULATED VERT. DEFL.(LL) = $L/399$ (0.24')
ALLOWABLE DEFL.(TL) = $L/180$ (2.87')
CALCULATED VERT. DEFL.(TL) = $L/398$ (0.34')

CSI: TC=0.83/1.00 (C-D-2), BC=0.67/1.00 (N-O-1), WB=0.68/1.00 (I-R-3), SS=0.28/1.00 (B-C-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 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

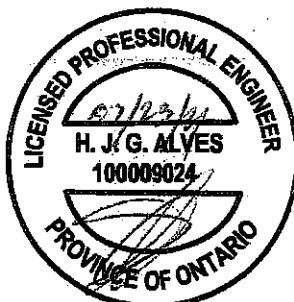
PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
MT20	650	371
	1747	789
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

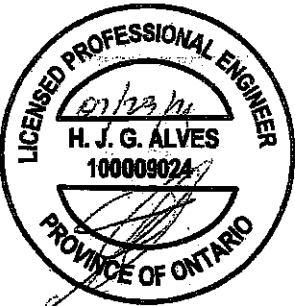
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.80)
JSI METAL= 0.96 (C) (INPUT = 1.00)

CONTINUED ON PAGE 2

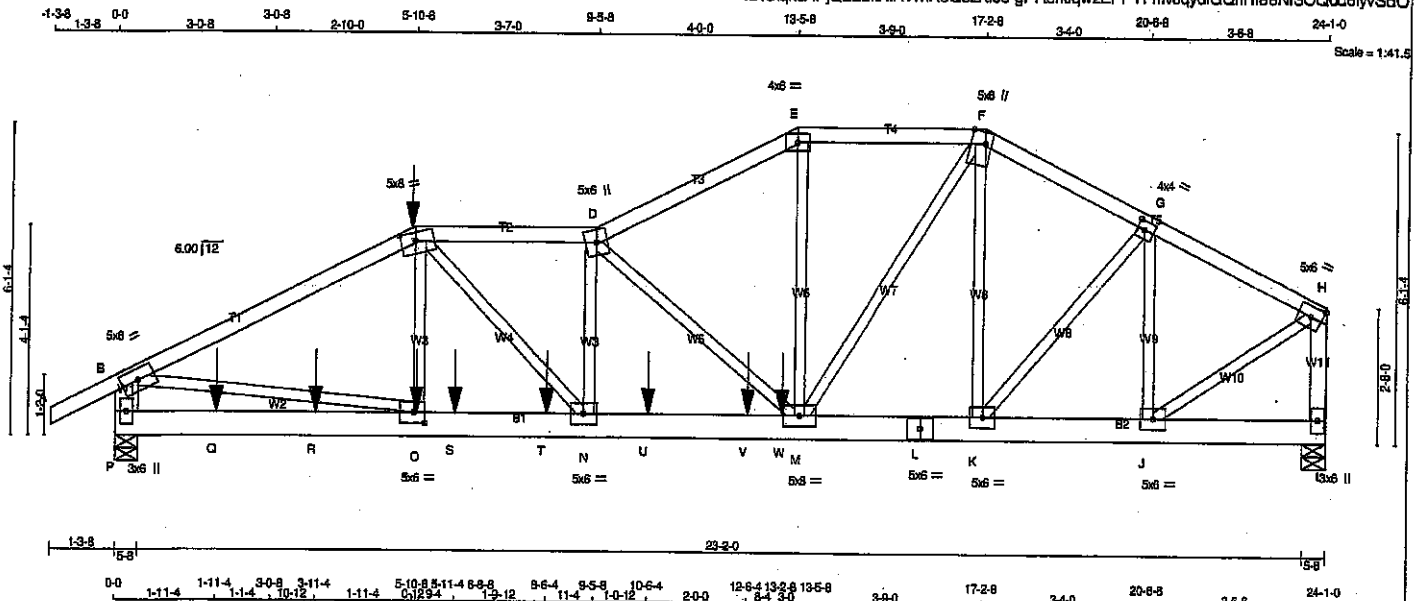


Structural component only
DWG# T-2124038

JOB NAME 418363	TRUSS NAME T66	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 23 09:30:44 2021 Page 2 ID:Oiqk5APiQaBbkRIRWnRoQszKI98-NZJBK4Rlv6yTwhq4F1qc5QlJclUAhE?_T12YcxyvEbv	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. NOTES- (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.		<u>TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2 (8)</u> WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (8.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM) INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.			
 Structural component only DWG# T-2124038 <i>ML</i>					

JOB NAME 418363	TRUSS NAME T67	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES I	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:33:25 2021 Page 1
ID:Oiqk5APjQaBbRtRwRnRoQszKl98-gf7t8hJqWzEPPYFmVJqydiGQhHf88NISOQdd6iyvSdO



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - D	2x4	DRY	No.2	SPF	
D - E	2x4	DRY	No.2	SPF	
E - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
P - B	2x6	DRY	No.2	SPF	
I - H	2x4	DRY	No.2	SPF	
P - L	2x6	DRY	No.2	SPF	
L - I	2x6	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	SIDE(61.0)
C - D	12	SIDE(61.0)
D - E	12	TOP
E - F	12	TOP
F - H	12	TOP
I - H	12	TOP
P - B	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
P - L	12	SIDE(183.1)
L - I	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
P	3410	0	3410	0
I	2924	0	2924	0

UNFACTORED REACTIONS

1ST CASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM LIVE WIND DEAD SOIL
P	2403 1828 / 0 0 / 0 0 / 0 0 777 / 0 0 / 0
I	2080 1395 / 0 0 / 0 0 / 0 0 664 / 0 0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	FACTORED	WEBS	FACTORED
MEMB.	FORCE	MEMB.	FORCE
(LBS)	(PLF)	(LBS)	(PLF)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 28	B-O	0 / 4695
B-C	-5209 / 0	C-C	-169 / 83
C-D	-9244 / 0	C-N	0 / 2331
D-E	-4846 / 0	N-D	-768 / 0
E-F	-4369 / 0	D-M	-2604 / 0
F-G	-3447 / 0	M-E	0 / 1813
G-H	-2683 / 0	M-F	0 / 2452
H-I	-3332 / 0	F-K	-816 / 0
P-B	-3332 / 0	K-G	0 / 1008
I-H	-2855 / 0	J-H	-1487 / 0
P-Q	0 / 0	J-H	0 / 2888
Q-R	0 / 0		
R-O	0 / 0		
O-S	0 / 4651		
S-T	0 / 4651		
T-N	0 / 4651		
N-U	0 / 8265		
U-V	0 / 8265		
V-W	0 / 8265		
W-M	0 / 8265		
M-L	0 / 3051		
L-K	0 / 3051		
K-J	0 / 2413		
J-I	0 / 0		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-254	-254		FRONT	VERT	TOTAL		C1
O	5-11-4	-21	-21		FRONT	VERT	TOTAL		C1
Q	1-11-4	-20	-20		FRONT	VERT	TOTAL		C1
R	3-11-4	-21	-21		FRONT	VERT	TOTAL		C1
S	6-8-8	-236	-236		FRONT	VERT	TOTAL		C1
T	8-8-4	-252	-252		FRONT	VERT	TOTAL		C1
U	10-6-4	-253	-253		FRONT	VERT	TOTAL		C1
V	12-6-4	-253	-253		FRONT	VERT	TOTAL		C1
W	13-2-8	-1187	-1187		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC02015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC02015, ABC 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.53/1.00 (B-C:1), BC=0.61/1.00 (M-N:1),
WB=0.68/1.00 (D-M:1), SS=0.66/1.00 (M-N: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 RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (D) (INPUT = 0.90)
JSI METAL = 0.53 (O) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2124039

JOB NAME 418363	TRUSS NAME T67	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:25 2021 Page 2
ID:Oick5APIQaBbkRIRWnRoQszKl98-gF7i8hJawzEPPYFmvJydiGQhHf88NISOQdd6ivvSdO

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0		
C	TTWW-m	MT20	5.0	8.0	2.00	3.50
D	TTWW+m	MT20	5.0	6.0		
E	TTW-t	MT20	4.0	6.0		
F	TTWW+m	MT20	5.0	8.0	Edge	3.50
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-t	MT20	5.0	6.0	Edge	
I	BMV1+p	MT20	3.0	6.0		
J, K, N						
J	BMVW-t	MT20	5.0	6.0		
L	BS-t	MT20	5.0	6.0		
M	BMVWW-t	MT20	5.0	8.0		
O	BMVW-t	MT20	5.0	6.0	2.50	2.75
P	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

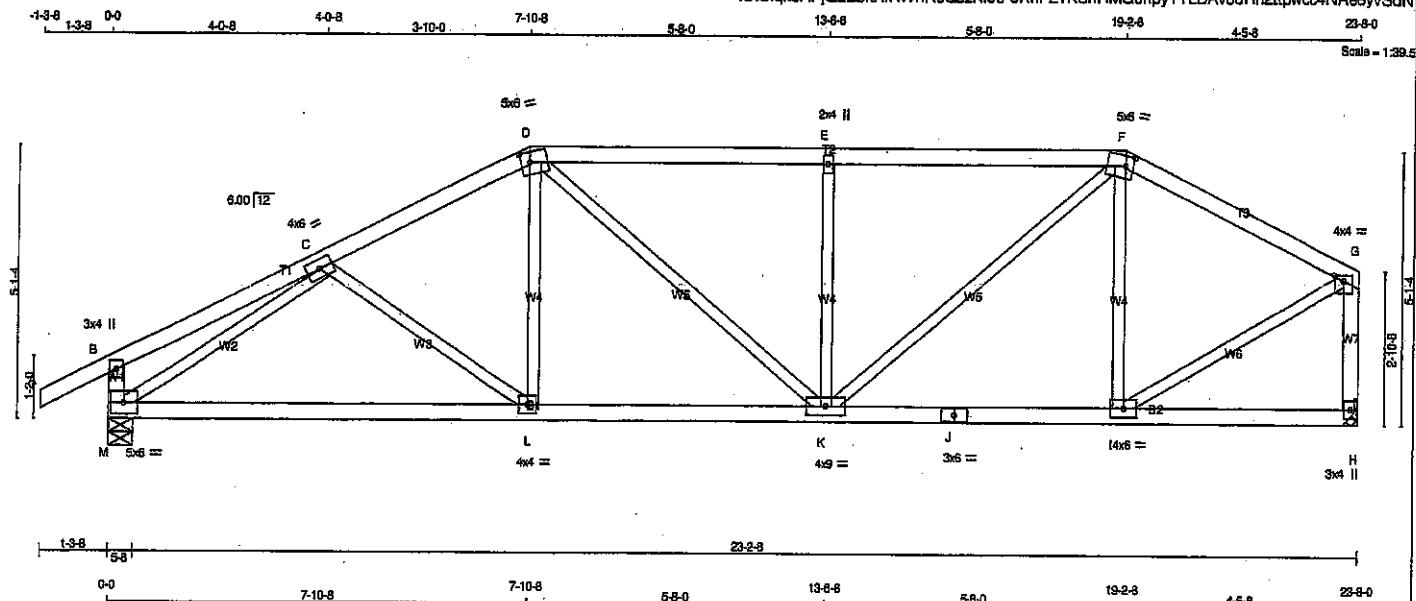


Structural component only
DWG# T-2124039 2/2

JOB NAME 418363	TRUSS NAME T68	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mtek Industries, Inc. Thu Jul 22 17:33:26 2021 Page 1
ID:01qk5AP1QaBbkRIRWnRoCszK198-8RhFL1KSHHMG0hpyT1LBAVodHh2tpwcc4NAe8yvSdN



TOTAL WEIGHT = 95 lb

LUMBER

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMWW-t	MT20	4.0	6.0		
D TTWW-m	MT20	5.0	6.0	2.25	2.00
E TMW-w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	6.0	2.25	1.75
G TMW-p	MT20	4.0	4.0	1.25	2.00
H BMV1-p	MT20	3.0	4.0		
I BMWW-t	MT20	4.0	6.0		
J BS-t	MT20	3.0	6.0		
K BMWW-t	MT20	4.0	9.0		
L BMWW-t	MT20	4.0	4.0		
M BMWV-t	MT20	5.0	6.0		

NOTES:

(1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
M	1429	0	1429	0
H	1305	0	1305	0

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

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
M	1008	875 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0
H	923	605 / 0	0 / 0	0 / 0	0 / 0	317 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-L	-110 / 27	0.04 (1)
B-C	0 / 17	-91.8	-91.8	0.21 (1)	10.00	L-D	0 / 215	0.05 (4)
C-D	-1834 / 0	-91.8	-91.8	0.19 (1)	5.01	D-K	0 / 260	0.06 (1)
D-E	-1848 / 0	-91.8	-91.8	0.41 (1)	4.71	K-E	-639 / 0	0.25 (1)
E-F	-1848 / 0	-91.8	-91.8	0.41 (1)	4.71	K-F	0 / 856	0.19 (1)
F-G	-1124 / 0	-91.8	-91.8	0.25 (1)	5.89	F-F	-454 / 0	0.17 (1)
M-B	-288 / 0	0.0	0.0	0.03 (1)	7.81	M-C	-1888 / 0	0.72 (1)
H-G	-1274 / 0	0.0	0.0	0.19 (1)	7.14	F-G	0 / 1153	0.26 (1)
M-L	0 / 1534	-18.5	-18.5	0.38 (1)	10.00			
L-K	0 / 1449	-18.5	-18.5	0.38 (4)	10.00			
K-J	0 / 995	-18.5	-18.5	0.23 (1)	10.00			
J-I	0 / 995	-18.5	-18.5	0.23 (1)	10.00			
I-H	0 / 0	-18.5	-18.5	0.12 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 25.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")

ALLOWABLE DEFL.(TL) = L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.41/1.00 (D-E-1), SC=0.38/1.00 (L-M-1),
WB=0.72/1.00 (C-M-1), SS=0.25/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	850	371	1747
	788	1887	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

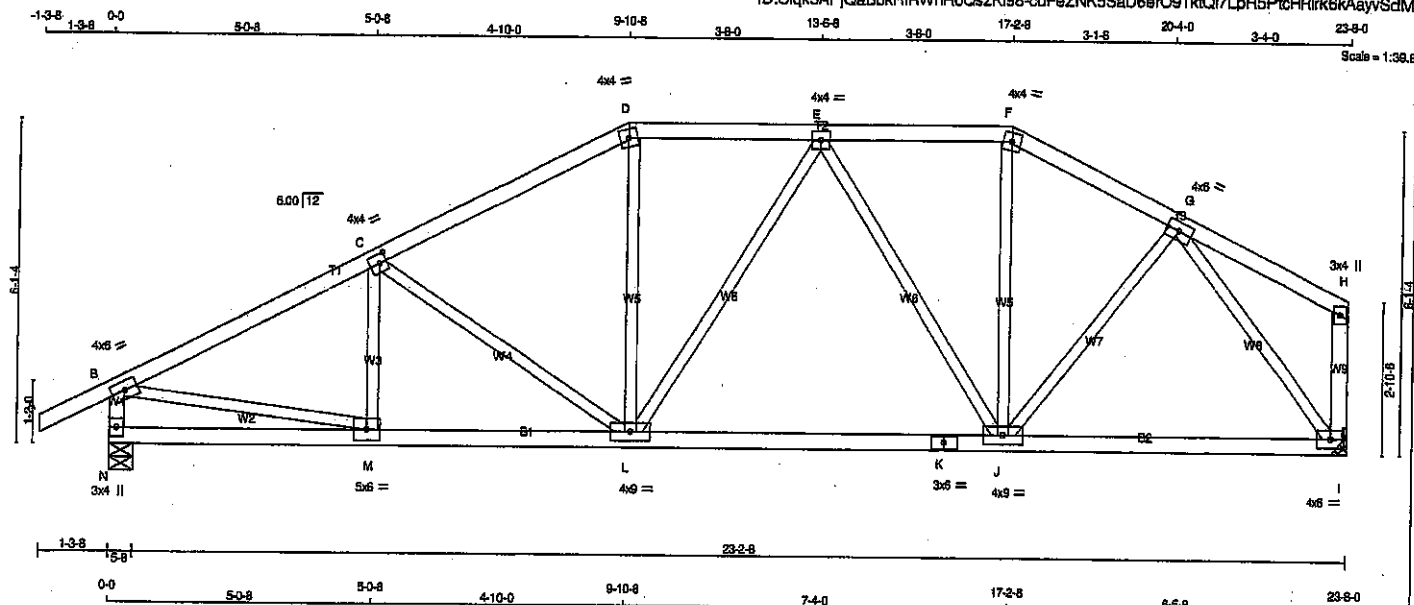
JSI GRIP= 0.88 (G) (INPUT = 0.90)
JSI METAL= 0.41 (C) (INPUT = 1.00)



Structural component only
DWG# T-2124040

JOB NAME 418363	TRUSS NAME T69	QUANTITY 1	FLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:33:27 2021 Page 1
ID:Oik5APJQaBbkRIRWnRoCszK198-cdFeZK5SaU6erO91ktQ7LpR5PtcHrIk8kAayvScdm



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESOR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
N - B	2x4	DRY	No.2	SPF	
I - H	2x4	DRY	No.2	SPF	
N - K	2x4	DRY	No.2	SPF	
K - I	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-1	MT20	4.0	8.0		
C	TMVW-1	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0		
E	TMVW-1	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	4.0		
G	TMVW-1	MT20	4.0	8.0		
H	TMV-tp	MT20	3.0	4.0		
I	BMVW-1-t	MT20	4.0	8.0		
J	BMVW-1-t	MT20	4.0	8.0		
K	BS-1	MT20	3.0	8.0		
L	BMVW-1-t	MT20	4.0	8.0		
M	BMVW-1-t	MT20	5.0	8.0		
N	BMV-tp	MT20	3.0	4.0		

NOTES:

(1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
N	1488	1429	0	5-8
I	1305	1305	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1008	875 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0
I	923	805 / 0	0 / 0	0 / 0	0 / 0	317 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	M-C	-185 / 14	0.04 (1)
B-C	-1789 / 0	-91.8	-91.8 0.32 (1)	4.89	C-L	-384 / 0	0.24 (1)
C-D	-1477 / 0	-91.8	-91.8 0.30 (1)	5.07	L-D	0 / 351	0.08 (1)
D-E	-1305 / 0	-91.8	-91.8 0.17 (1)	5.49	L-E	-23 / 26	0.02 (1)
E-F	-1079 / 0	-91.8	-91.8 0.16 (1)	5.30	E-J	-455 / 0	0.40 (1)
F-G	-1218 / 0	-91.8	-91.8 0.12 (1)	5.69	J-F	0 / 292	0.07 (1)
G-H	0 / 14	-91.8	-91.8 0.14 (1)	10.00	J-G	0 / 307	0.07 (1)
H-I	-1387 / 0	0.0	0.0 0.14 (1)	6.91	B-M	0 / 1838	0.37 (1)
I-H	-117 / 0	0.0	0.0 0.02 (1)	7.81	G-I	-1442 / 0	0.84 (1)
N-M	0 / 0	-18.5	-18.5 0.10 (4)	10.00			
M-L	0 / 1615	-18.5	-18.5 0.34 (1)	10.00			
L-K	0 / 1317	-18.5	-18.5 0.33 (1)	10.00			
K-J	0 / 1317	-18.5	-18.5 0.33 (1)	10.00			
J-I	0 / 882	-18.5	-18.5 0.29 (4)	10.00			

TOTAL WEIGHT = 100 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.32/1.00 (B-C-1), BC=0.34/1.00 (L-M-1),
WB=0.84/1.00 (G-I-1), SS=0.20/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)
JSI METAL= 0.44 (B) (INPUT = 1.00)

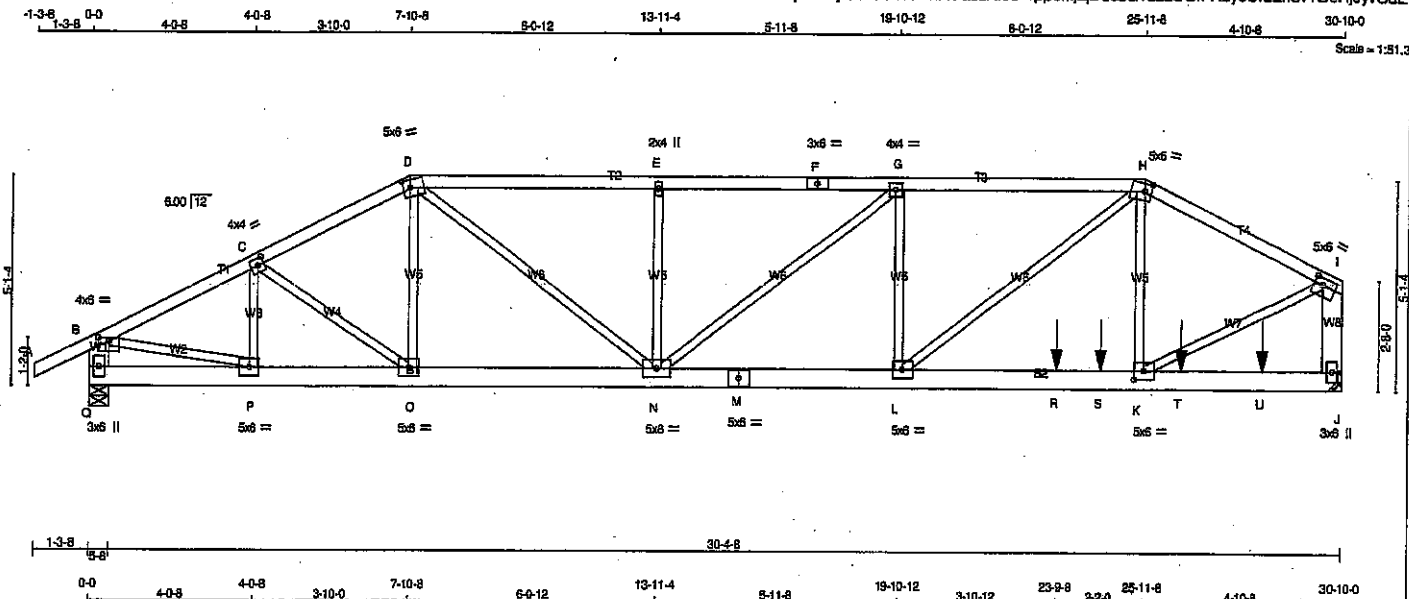


Structural component only
DWG# T-2124041

JOB NAME 418363	TRUSS NAME T70	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:33:28 2021 Page 1
ID:Oiqk5APjQaBtkRIRWnRoCszKI98-4pp0mJLDudzG7zLaSOifKuy9UfdLnSv4OsfHj0yvSdt



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

DRY, SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D	12	TOP
D-F	12	TOP
F-H	12	TOP
H-I	12	TOP
Q-B	12	TOP
J-I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Q-M	12	TOP
M-J	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS					
JT	GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD	
Q	VERT	HORIZ	DOWN	HORIZ	UP/LIFT
J	2271	0	2271	0	0
Q	3540	0	3540	0	0

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1802	1073 / 0	0 / 0	0 / 0	0 / 0	529 / 0	0 / 0
J	2497	1679 / 0	0 / 0	0 / 0	0 / 0	818 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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 / 28	-91.8 -91.8	0.07 (1)	10.00	P-C	-555 / 0	0.05 (1)
B-C	-3100 / 0	-91.8 -91.8	0.15 (1)	5.12	C-O	0 / 118	0.01 (1)
C-D	-3242 / 0	-91.8 -91.8	0.15 (1)	5.03	C-D	0 / 136	0.02 (4)
D-E	-4092 / 0	-91.8 -91.8	0.36 (1)	4.38	K-H	0 / 358	0.04 (1)
E-F	-4092 / 0	-91.8 -91.8	0.36 (1)	4.38	B-P	0 / 2838	0.35 (1)
F-G	-4092 / 0	-91.8 -91.8	0.36 (1)	4.38	K-I	0 / 3759	0.47 (1)
G-H	-4530 / 0	-91.8 -91.8	0.36 (1)	4.18	L-H	0 / 1474	0.18 (1)
H-I	-3825 / 0	-91.8 -91.8	0.25 (1)	4.59	D-N	0 / 1531	0.19 (1)
Q-B	-2202 / 0	0.0 0.0	0.06 (1)	7.81	L-G	-201 / 12	0.04 (1)
J-I	-3501 / 0	0.0 0.0	0.16 (1)	7.48	N-E	-598 / 0	0.11 (1)
					N-G	-835 / 0	0.36 (1)
Q-P	0 / 0	-18.5 -18.5	0.05 (1)	10.00			
P-O	0 / 2787	-18.5 -18.5	0.23 (1)	10.00			
O-N	0 / 2885	-18.5 -18.5	0.25 (1)	10.00			
N-M	0 / 4580	-18.5 -18.5	0.49 (1)	10.00			
M-L	0 / 4580	-18.5 -18.5	0.49 (1)	10.00			
L-R	0 / 3427	-18.5 -18.5	0.75 (1)	10.00			
R-S	0 / 3427	-18.5 -18.5	0.75 (1)	10.00			
S-K	0 / 3427	-18.5 -18.5	0.75 (1)	10.00			
K-T	0 / 0	-18.5 -18.5	0.39 (1)	10.00			
T-U	0 / 0	-18.5 -18.5	0.39 (1)	10.00			
U-J	0 / 0	-18.5 -18.5	0.39 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIRL	TYPE	HEEL	CONN.
R	23-9-8	-1083	-1083	---	FRONT	VERT	TOTAL	---	C1
S	24-10-12	-175	-175	---	FRONT	VERT	TOTAL	---	C1
T	28-10-12	-175	-175	---	FRONT	VERT	TOTAL	---	C1
U	28-10-12	-175	-175	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.39/1.00 (G-H-I), BC=0.75/1.00 (K-L-I),
WB=0.47/1.00 (H-K-I), SS=0.45/1.00 (K-L-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSD) (PL) (FL)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (D) (INPUT = 0.90)
JSI METAL = 0.45 (I) (INPUT = 1.00)



Structural component only
DWG# T-2124042

CONTINUED ON PAGE 2

JOB NAME 418363	TRUSS NAME T70	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

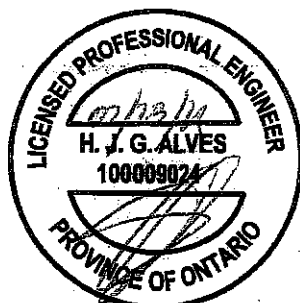
Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:28 2021 Page 2
ID:Oqk5APIQaBbkRfRWnRoQszKI98-4pp0mLiDudzG7zLaSOIFKuy9UfdLnSv4OsHl0yvSdL

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	6.0	1.00	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	5.0	6.0	2.25	2.00
I	TMVW-t	MT20	5.0	6.0	2.00	2.25
J	BMV1+p	MT20	3.0	6.0		
K	BMVW-t	MT20	5.0	6.0	2.50	2.75
L, D, P						
L	BMVW-t	MT20	5.0	6.0		
M	BS-t	MT20	5.0	6.0		
N	BMVWW-t	MT20	5.0	8.0		
Q	BMV1+p	MT20	3.0	6.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

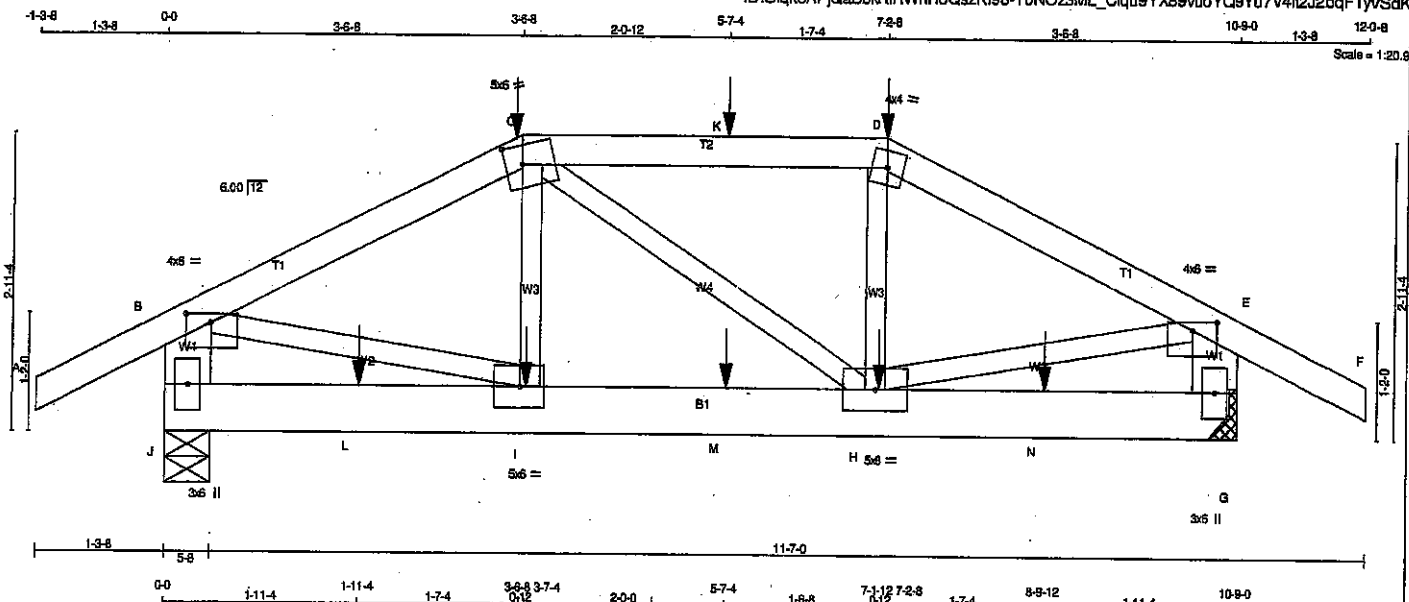


Structural component only
DWG# T-2124042

JOB NAME 418363	TRUSS NAME T71	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Thu Jul 22 17:33:29 2021 Page 1
ID:Oiqk5APjQaBbkRIRWnRoQszK198-Y0NOz3ML_Clqu9YX89vuoYQ89y7V4h2J2bqFTyVScK



TOTAL WEIGHT = 50 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	6.0	1.00 3.00
C	TTWW-m	MT20	5.0	6.0	2.25 2.00
D	TTWW-m	MT20	4.0	4.0	
E	TMVW-p	MT20	4.0	6.0	1.00 3.00
G	BMV1+p	MT20	3.0	6.0	
H	BMVWW-t	MT20	5.0	8.0	
I	BMVWW-t	MT20	5.0	8.0	
J	BMV1+p	MT20	3.0	6.0	

NOTES:

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
GROSS REACTION	GROSS REACTION	BRG	BRG	
JT VERT	HORZ	DOWN	HORZ	UPLIFT
J	882	0	882	0
G	884	0	884	0

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

UNFACTORED REACTIONS

1ST LOASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	622	419 / 0	0 / 0	0 / 0	0 / 0	204 / 0	0 / 0
G	623	419 / 0	0 / 0	0 / 0	0 / 0	204 / 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 = 6.22 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 / 28	-91.8 -91.8 0.19 (1)	I-C	-85 / 41
B-C	-872 / 0	-91.8 -91.8 0.28 (1)	C-H	0 / 4
C-K	-777 / 0	-91.8 -91.8 0.28 (1)	H-D	-86 / 43
K-D	-777 / 0	-91.8 -91.8 0.28 (1)	D-I	0 / 787
D-E	-877 / 0	-91.8 -91.8 0.23 (1)	E-H	0 / 800
E-F	0 / 28	-91.8 -91.8 0.13 (1)		
J-B	-844 / 0	0.0 0.0 0.08 (1)		
G-E	-848 / 0	0.0 0.0 0.08 (1)		
J-L	0 / 0	-18.5 -18.5 0.04 (4)		
L-I	0 / 0	-18.5 -18.5 0.04 (4)		
I-M	0 / 776	-18.5 -18.5 0.13 (1)		
M-H	0 / 776	-18.5 -18.5 0.13 (1)		
H-N	0 / 0	-18.5 -18.5 0.04 (4)		
N-G	0 / 0	-18.5 -18.5 0.04 (4)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIRL	TYPE	HEEL	CONN.
C	3-6-8	-91	-91	-	BACK	VERT	TOTAL	-	C1
D	7-2-8	-91	-91	-	BACK	VERT	TOTAL	-	C1
H	7-1-12	-8	-8	-	BACK	VERT	TOTAL	-	C1
I	3-7-4	-8	-8	-	BACK	VERT	TOTAL	-	C1
K	5-7-4	-21	-21	-	BACK	VERT	TOTAL	-	C1
L	1-11-4	-5	-5	-	BACK	VERT	TOTAL	-	C1
M	5-7-4	-8	-8	-	BACK	VERT	TOTAL	-	C1
N	8-9-12	-5	-5	-	BACK	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

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

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

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

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

CSH: TC=0.28/1.00 (C-D:1), BC=0.13/1.00 (H-I:1),
WB=0.20/1.00 (E-H:1), SSI=0.18/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	850 371	1747 788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.56 (E) (INPUT = 0.90)

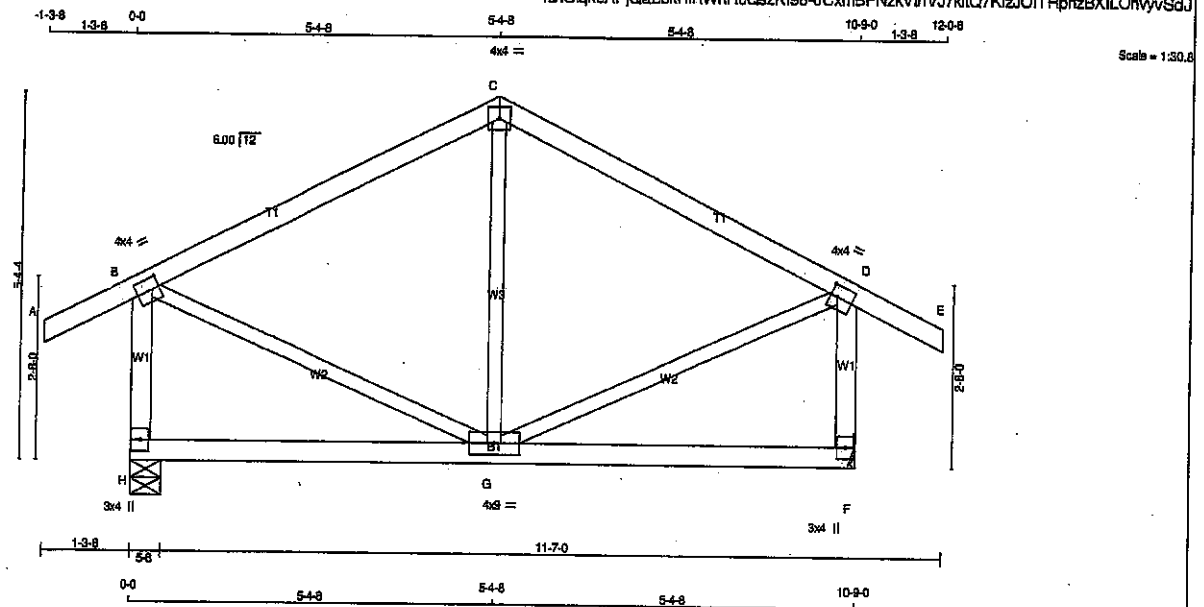
JSI METAL= 0.21 (E) (INPUT = 1.00)



Structural component only
DWG# T-2124043

JOB NAME 418363	TRUSS NAME T72	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:30 2021 Page 1
ID:Oiqk5APjQaBbkRIRWnRoQszK198-0CxmBPNzkVihVJ7kitQ7KzJOITRpnzBXILOnvyvSdJ



TOTAL WEIGHT = 2 X 47 = 96 lb
(M/F)

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW-t	MT20	4.0	4.0	2.00	1.25
C TMW-p	MT20	4.0	4.0		
D TMW-t	MT20	4.0	4.0	2.00	1.25
F BMV1-p	MT20	3.0	4.0		
G BMW/t	MT20	4.0	4.0		
H BMV1-p	MT20	3.0	4.0		

NOTES:

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORIZ	DOWN	HORIZ
H	717	0	717	0
F	717	0	717	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
H	COMBINED	SNOW	LIVE	0/0	0/0	0/0
F	505	344/0	0/0	0/0	160/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
FR-TO					FR-TO		
A-B	0/28	-91.8	-91.8	0.12 (1)	G-C	-185/32	0.07 (1)
B-C	-367/0	-91.8	-91.8	0.34 (1)	B-G	0/358	0.08 (1)
C-D	-367/0	-91.8	-91.8	0.34 (1)	G-D	0/358	0.08 (1)
D-E	0/28	-91.8	-91.8	0.12 (1)			
H-B	-679/0	0.0	0.0	0.09 (1)			
F-D	-679/0	0.0	0.0	0.09 (1)			
H-G	0/0	-18.5	-18.5	0.15 (4)			
G-F	0/0	-18.5	-18.5	0.15 (4)			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

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

CSI: TC=0.34/1.00 (B-C:1), BC=0.15/1.00 (F-G:4), WB=0.08/1.00 (B-G:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788
	1957	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.53 (B) (INPUT = 0.80)

JSI METAL= 0.18 (B) (INPUT = 1.00)

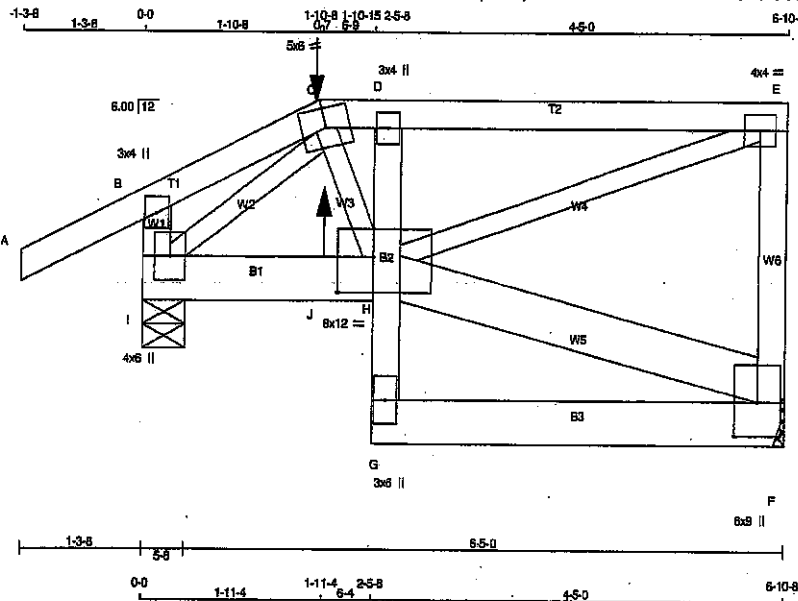


Structural component only
DWG# T-2124044

JOB NAME 418363	TRUSS NAME T73S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:31 2021 Page 1

ID:Oiqk5APjQaBbkRiRWnRoQszKI98-UOU8OIO6VpY7TiwGaxMtzWWkircYEHmM4xJLvvSdt



Scale = 1/22.2

TOTAL WEIGHT = 43 b

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY No.2

C - E 2x4 DRY No.2

F - E 2x4 DRY No.2

I - B 2x4 DRY No.2

I - H 2x6 DRY No.2

G - D 2x4 DRY No.2

G - F 2x6 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

H - F 2x6 DRY No.2

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

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

BEARINGS

FACTORED MAXIMUM FACTORED INPUT REQD

GROSS REACTION GROSS REACTION BRG BRG

JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX

F 378 0 378 0 0 MECHANICAL

I 500 0 500 0 0 5-8 5-8

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

UNFACTORED REACTIONS

1ST LOASE MAX/MIN. COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL

F 287 175/0 0/0 0/0 0/0 92/0 0/0

I 351 242/0 0/0 0/0 0/0 109/0 0/0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS

MAX. FACTORED FACTORED

MEMB. FORCE VERT. LOAD LC1 MAX. MAX.

(LBS) (PLF) CSI (LC) UNBRAC

FR-TO LENGTH FR-TO

A-B 0/28 -91.8 -91.8 0.13 (1) 10.00 C-H 0/426 0.11 (5)

B-C 0/0 -91.8 -91.8 0.06 (1) 10.00 H-F -15/0 0.00 (1)

C-D -440/0 -91.8 -91.8 0.24 (5) 8.25 H-E 0/482 0.11 (1)

D-E -429/0 -91.8 -91.8 0.24 (5) 6.25 I-C -395/0 0.07 (1)

F-E -333/0 0.0 0.0 0.07 (1) 7.81

I-B -212/0 0.0 0.0 0.02 (1) 7.81

I-J 0/293 -18.5 -18.5 0.05 (1) 10.00

J-H 0/293 -18.5 -18.5 0.05 (1) 10.00

G-H 0/44 0.0 0.0 0.04 (1) 10.00

H-D -499/0 0.0 0.0 0.03 (1) 7.81

G-F 0/14 -18.5 -18.5 0.05 (4) 10.00

WEBS

MAX. FACTORED

MEMB. FORCE MAX.

(LBS) CSI (LC)

FR-TO

A-B 0/28 -91.8 -91.8 0.13 (1) 10.00 C-H 0/426 0.11 (5)

B-C 0/0 -91.8 -91.8 0.06 (1) 10.00 H-F -15/0 0.00 (1)

C-D -440/0 -91.8 -91.8 0.24 (5) 8.25 H-E 0/482 0.11 (1)

D-E -429/0 -91.8 -91.8 0.24 (5) 6.25 I-C -395/0 0.07 (1)

F-E -333/0 0.0 0.0 0.07 (1) 7.81

I-B -212/0 0.0 0.0 0.02 (1) 7.81

I-J 0/293 -18.5 -18.5 0.05 (1) 10.00

J-H 0/293 -18.5 -18.5 0.05 (1) 10.00

G-H 0/44 0.0 0.0 0.04 (1) 10.00

H-D -499/0 0.0 0.0 0.03 (1) 7.81

G-F 0/14 -18.5 -18.5 0.05 (4) 10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT LOC. LC1 MAX. MAX+ FACE DIR. TYPE HEEL CONN.

C 1-10-15 -1 -1 67 BACK VERT TOTAL - C1

J 1-11-4 4 1 8 BACK VERT TOTAL - C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. 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 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BOBC 2018, ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")

CALCULATED VERT. DEFL.(LL) = L/999 (0.01")

ALLOWABLE DEFL.(TL) = L/360 (0.23")

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

CSI: TC=0.24/1.00 (D-E), BC=0.05/1.00 (F-G),

WB=0.11/1.00 (E-H), SI=0.22/1.00 (C-D-S)

DCL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

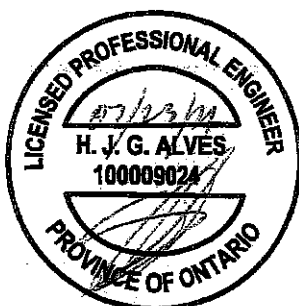
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.54 (E) (INPUT = 0.90)

JSI METAL = 0.15 (E) (INPUT = 1.00)

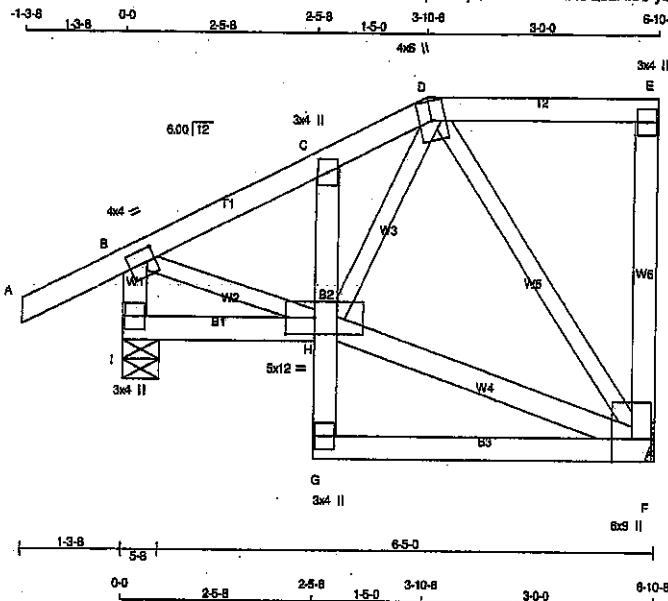


Structural component only
DWG# T-2124045

JOB NAME 418363	TRUSS NAME T74S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:33:32 2021 Page 1
ID: Cqk5APjQaBbkRIRWnRcQszK198-yb2Xc4ODG77PldH6pHSbPA2i36AkHhU70qVsoyvSdH



Scale = 1:25.5

LUMBER

N.L.G.A. RULES

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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	4.0	4.0	2.00	1.25
C	TMV+p	MT20	3.0	4.0		
D	TTVW+m	MT20	4.0	6.0		
E	TMV+p	MT20	3.0	4.0		
F	BMVW1+p	MT20	6.0	9.0	Edge	
G	BMV+p	MT20	3.0	4.0		
H	BMVW1+p	MT20	6.0	12.0	2.50	4.50
I	BMV1+p	MT20	3.0	4.0		

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

NOTES-

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT. HORZ.	DOWN HORZ.	BRG IN-SX	BRG IN-SX
F	379 0	379 0	MECHANICAL	
I	503 0	503 0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	288	176 / 0	0 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0
I	354	245 / 0	0 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LO1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	H-F	0 / 181	0.03 (1)	
B-C	-336 / 0	-91.8 -91.8	0.07 (1)	H-D	0 / 265	0.08 (1)	
C-D	-340 / 0	-91.8 -91.8	0.04 (1)	B-H	0 / 323	0.07 (1)	
D-E	0 / 0	-91.8 -91.8	0.14 (1)	D-F	-320 / 0	0.13 (1)	
F-E	-136 / 0	0.0 0.0	0.05 (1)				
I-B	-479 / 0	0.0 0.0	0.05 (1)				
I-H	0 / 0	-18.5 -18.5	0.04 (4)				
G-H	0 / 44	0.0 0.0	0.03 (1)				
H-C	-216 / 0	0.0 0.0	0.02 (1)				
G-F	0 / 10	-18.5 -18.5	0.10 (4)				

TOTAL WEIGHT = 40 lb (MIF)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.14/1.00 (D-E-1), BC=0.10/1.00 (F-G-4),
WB=0.18/1.00 (D-F-1), SS=0.11/1.00 (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 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	660 371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.50 (B) (INPUT = 0.90)
JSI METAL= 0.15 (B) (INPUT = 1.00)

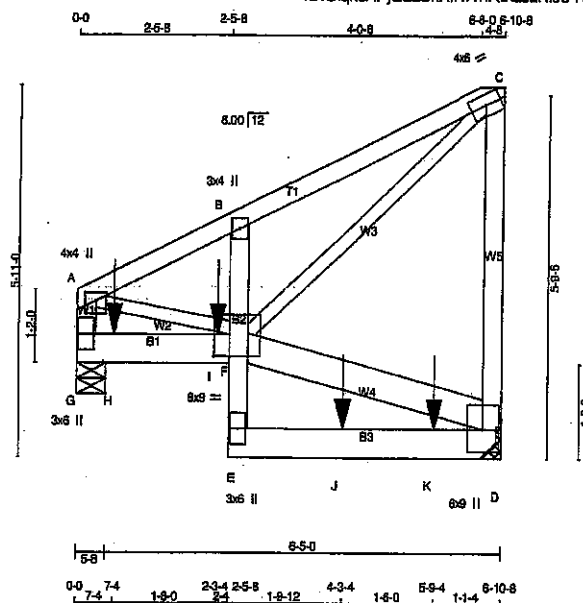


Structural component only
DWG# T-2124046

JOB NAME 418363	TRUSS NAME T76S	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:33 2021 Page 1
ID:Oiqk5APjQaBbkRiRWnRoQszK198-RncvpQPr1QFGMmslN7zzyObrVVRQ069eDgZ2OeySdG



Scale = 1:33.7

LUMBER			
N.L. G.A. RULES	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
D - C	2x4	DRY No.2	SPF
G - A	2x4	DRY No.2	SPF
G - F	2x6	DRY No.2	SPF
E - B	2x4	DRY No.2	SPF
E - D	2x6	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			
F - D	2x6	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 1	12	TOP
C - D 1	12	TOP
G - A 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
G - F 2	12	SIDE(0.0)
E - D 2	12	SIDE(0.0)
B - E 1	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	
2x6 2	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	1710	0	1710	0
D 1710	0	1710	0	0
G 1576	0	1576	0	0

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D 1202	830 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0
G 1108	771 / 0	0 / 0	0 / 0	0 / 0	335 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	UNBRACED LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
A-B	-1617 / 0	-91.8	-91.8	0.09 (1)	6.25	F-D	-69 / 0	0.01 (1)			
B-C	-1580 / 0	-91.8	-91.8	0.14 (1)	6.25	F-C	0 / 1971	0.24 (1)			
D-C	-657 / 0	0.0	0.0	0.29 (1)	7.81	A-F	0 / 1526	0.19 (1)			
G-A	-1241 / 0	0.0	0.0	0.07 (1)	7.81						
G-H	0 / 0	-18.5	-18.5	0.10 (1)	10.00						
H-I	0 / 0	-18.5	-18.5	0.10 (1)	10.00						
I-F	0 / 0	-18.5	-18.5	0.10 (1)	10.00						
E-F	0 / 648	0.0	0.0	0.13 (1)	10.00						
F-B	-353 / 0	0.0	0.0	0.07 (1)	7.81						
E-J	0 / 65	-18.5	-18.5	0.39 (1)	10.00						
J-K	0 / 65	-18.5	-18.5	0.39 (1)	10.00						
K-D	0 / 65	-18.5	-18.5	0.39 (1)	10.00						

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	7-4	-179	-179	---	TOP	VERT	TOTAL	---	C1
I	2-3-4	-613	-613	---	FRONT	VERT	TOTAL	---	C1
J	4-3-4	-490	-490	---	FRONT	VERT	TOTAL	---	C1
K	5-9-4	-490	-490	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.29/1.00 (C-D:1), BC=0.39/1.00 (D-E:1),
WB=0.24/1.00 (C-F:1), SSI=0.29/1.00 (F-G: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 RIGHT HEEL ONLY

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

NAIL VALUES

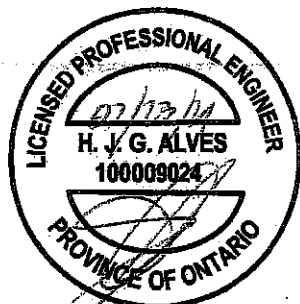
PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.86 (A) (INPUT = 0.90)
JSI METAL = 0.21 (A) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2124048

JOB NAME 418363	TRUSS NAME T76S	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

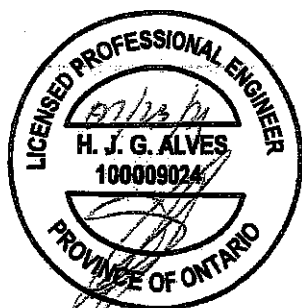
Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:33 2021 Page 2
ID:Olok5APiQaBbkRIRWnRoQszKI98-RncvpQP1QFGMmsIN?zgyObrVVRQ069eDgZ2OEwSdG

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.50	2.00
B	TMV+p	MT20	3.0	4.0		
C	TMVW-t	MT20	4.0	6.0	2.00	3.00
D	BMVW1+p	MT20	6.0	9.0	4.25	3.00
E	BMV+p	MT20	3.0	6.0		
F	BVMW1+p	MT20	6.0	9.0	4.25	3.00
G	BMV1+p	MT20	3.0	6.0		

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

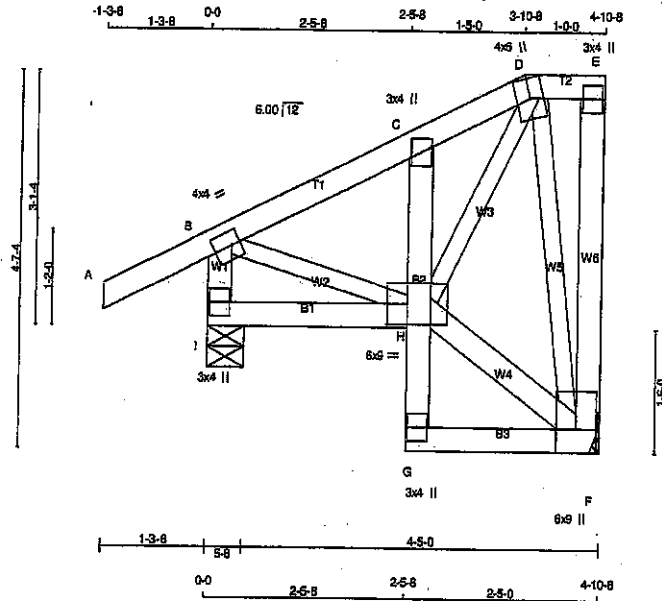


Structural component only
DWG# T-2124048 *mv*

JOB NAME 418363	TRUSS NAME T77S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 6.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:33:34 2021 Page 1
ID:QigkSAPjQaBbkRIRWnRoQszKI98-vzAH1mQUokN7_wRVxiV3Vb83rvtBlb7nSKJbwgyvSdF



Scale = 1:25.0

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TMV+p	MT20	3.0	4.0		
D	TTWW+m	MT20	4.0	6.0		
E	TMV+p	MT20	3.0	4.0		
F	BMVWW1+p	MT20	6.0	9.0	Edge	
G	BMV+p	MT20	3.0	4.0		
H	BMVWWH	MT20	6.0	9.0	3.00	3.00
I	BMV1+p	MT20	3.0	4.0		

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

NOTES:

(1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORIZ	DOWN	HORIZ
F	269	0	269	0
I	393	0	393	0

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
F	190	125/0	0/0
I	278	194/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	WEBS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX
MEMB.	FORCE	(LBS)	(PLF)	CSI	(LC)	MEMB.	FORCE	(LBS)	(PLF)	CSI	(LC)
FR-TO			FROM	TO		FR-TO			FROM	TO	
A-B	0/28	-91.8	-91.8	0.12	(1)	H-F	0/53	0.01	(1)		
B-C	-188/0	-91.8	-91.8	0.07	(1)	H-D	0/283	0.06	(1)		
C-D	-195/0	-91.8	-91.8	0.06	(1)	B-H	0/184	0.04	(1)		
D-E	0/0	-91.8	-91.8	0.01	(1)	D-F	-238/0	0.07	(1)		
F-E	-44/0	0.0	0.0	0.02	(1)						
I-B	-389/0	0.0	0.0	0.04	(1)						
I-H	0/0	-18.5	-18.5	0.04	(4)						
G-H	0/24	0.0	0.0	0.02	(1)						
H-C	-222/0	0.0	0.0	0.02	(1)						
G-F	0/8	-18.5	-18.5	0.03	(4)						

TOTAL WEIGHT = 33 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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, NBC 2015

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (H-I:4), WS=0.07/1.00 (D-F:1), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	850	371	1747
		788	1987
			1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)

JSI METAL= 0.10 (B) (INPUT = 1.00)

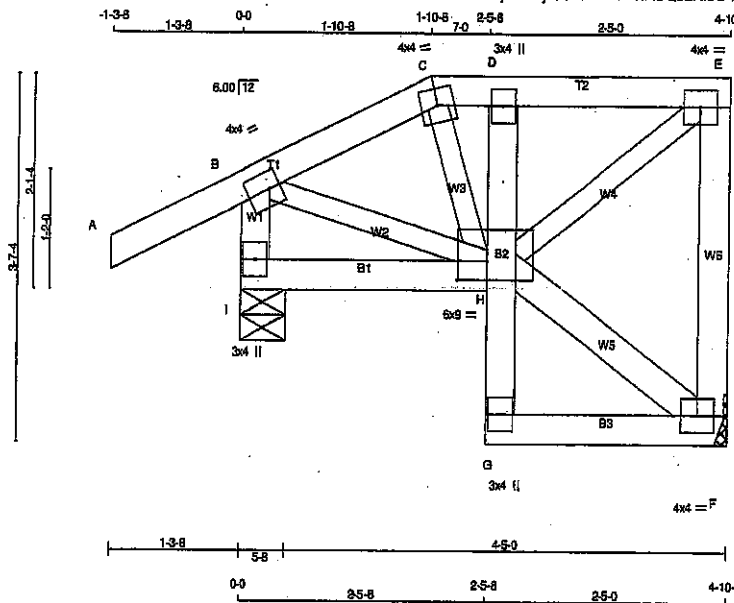


Structural component only
DWG# T-2124049

JOB NAME 418363	TRUSS NAME T78S	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:33:35 2021 Page 1
ID:Oiqk5APjQaBtkRIRWnRoQszK198-NAKE6R6Z2V_c47hVQ01pgEbJDU3bxhz29S6yvSdE

Scale = 1:20.7



TOTAL WEIGHT = 29 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS	2x3	DRY	No.2
EXCEPT			
H - F	2x4	DRY	No.2

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTW-m	MT20	4.0	4.0		
D	TMV-p	MT20	3.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	BMVW1-t	MT20	4.0	4.0		
G	BMV-p	MT20	3.0	4.0		
H	BMVWWWW-MT20		6.0	9.0	2.25	3.50
I	BMV1-p	MT20	3.0	4.0		

NOTES (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	269	0	269	0
I	393	0	393	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F	190	125 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0	
I	276	194 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-H	0 / 25	0.01 (1)	
B-C	-212 / 0	-91.8	-91.8	0.08 (1)	6.25	H-F	-7 / 0	0.00 (1)	
C-D	-198 / 0	-91.8	-91.8	0.05 (1)	6.25	H-E	0 / 248	0.06 (1)	
D-E	-194 / 0	-91.8	-91.8	0.06 (1)	6.25	B-H	0 / 199	0.04 (1)	
F-E	-244 / 0	0.0	0.0	0.05 (1)	7.81				
F-B	-369 / 0	0.0	0.0	0.04 (1)	7.81				
I-H	0 / 0	-18.5	-18.5	0.04 (4)	10.00				
G-H	0 / 24	0.0	0.0	0.01 (1)	10.00				
H-D	-199 / 0	0.0	0.0	0.01 (1)	7.81				
G-F	0 / 6	-18.5	-18.5	0.03 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = $L/360$ (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: TO=0.12/1.00 (A-B:1), BC=0.04/1.00 (H-I:4), WS=0.06/1.00 (E-H:1), SS=0.09/1.00 (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 RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PL)	(PL)
	MAX	MIN	MAX
MT20	650	371	1747

PLATE PLACEMENT TOL = 0.250 inches

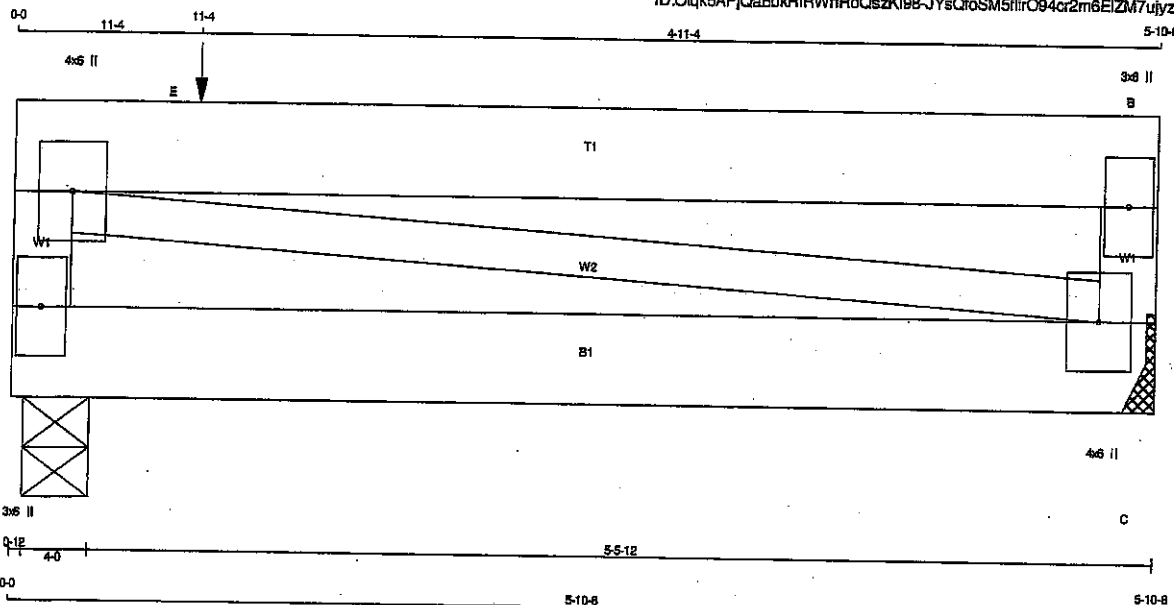
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.31 (B) (INPUT = 0.30)
JSI METAL = 0.10 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124050

JOB NAME 418363	TRUSS NAME T80	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:37 2021 Page 1 ID:Oiqk5APjQaBbkRIRWnRoCszk198-JYsQfoSM5firO94cr2m6EIZM7ujzyD8HXFX?yvSdC			



Scale = 1:10.7

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

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	
B	TMV+p	MT20	3.0	6.0	
C	BMVW1+p	MT20	4.0	6.0	
D	BMV1+p	MT20	3.0	6.0	

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQD BRG IN-SX
JT	VERT	HORZ	UPLIFT	4-0
D	490	0	490	0
C	355	0	355	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT C. MINIMUM BEARING LENGTH AT JOINT C = 2-0.

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	345	235/0	0/0	0/0	0/0	110/0	0/0
C	251	168/0	0/0	0/0	0/0	85/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX	LC2
FR-TO		FROM TO	CS1 (LC)	FR-TO		FROM TO	CS1 (LC)
D-A	-435/0	0.0	0.0 0.02 (1)	A-C	0/0	0.00	(1)
A-E	0/0	-81.8	-81.8 0.17 (1)				
E-B	0/0	-81.8	-81.8 0.17 (1)				
C-B	-301/0	0.0	0.0 0.02 (1)				
D-C	0/0	-18.5	-18.5 0.05 (4)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX-	MAX+	FACE	DIR	TYPE	HEEL	CONN.
E	11-4	-138	-138	-	TOP	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 27 = 53 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

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

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

CS1: TC=0.17/1.00 (A-B:1), BC=0.05/1.00 (C-D:4), WB=0.03/1.00 (A-C:1), SS=0.13/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

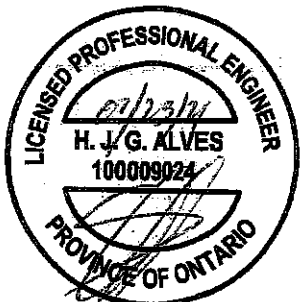
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	850	371	1747
	788	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

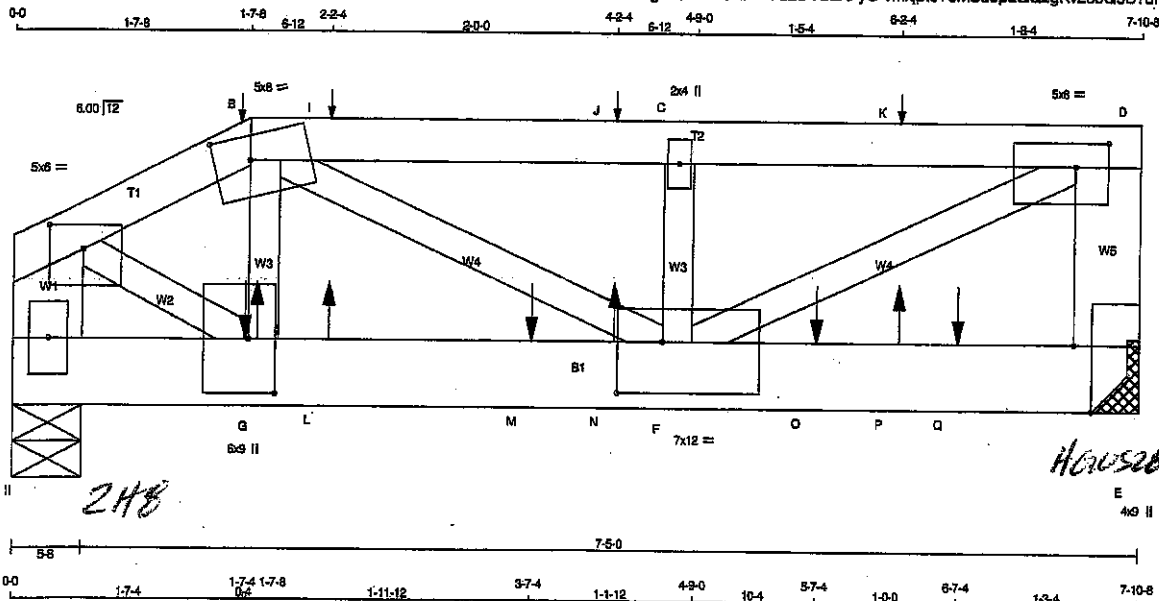
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.03 (A) (INPUT = 0.90)
JSI METAL= 0.03 (D) (INPUT = 1.00)



Structural component only
DWG# T-2124052

JOB NAME 418363	TRUSS NAME T81	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 8 Jan 21 2021 M Tek Industries, Inc. Fri Jul 23 08:32:55 2021 Page 1 ID:el87gKQ71H6SRnOIdd2DVSzKfYc-1mkpt0T6MSu8pLGQ2gKv2eoQ5B?uRZG6AGzisyvEZs	



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

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B	1	8
B-D	1	8
D-E	2	12
H-A	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H-E	3	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1	6

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
E	7917	0	7917	0	-2356 MECHANICAL
H	6418	0	6418	93	-1904 5-8

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

PROVIDE ANCHORAGE AT BEARING JOINT E FOR 2356 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT H FOR 1904 LBS. FACTORED UPLIFT

PROVIDE FOR 98 LBS. FACTORED HORIZONTAL REACTION AT JOINT H

UNFACTORED REACTIONS		1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
E	5951	3453 / -47	1042 / 0
H	4744	2798 / -8	846 / 0
HORIZONTAL REACTIONS			
H	0 / 0	0 / 0	0 / 0

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 8.59 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (31)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		FR-TO			
A-B	-7477 / 2229	-115.2	-115.2	0.11 (13)	4.32	G-B	-318 / 1187	0.09 (2)
B-I	-10312 / 3091	-115.2	-115.2	0.25 (2)	3.61	B-F	-1223 / 4066	0.30 (3)
I-J	-10312 / 3091	-115.2	-115.2	0.25 (2)	3.61	F-C	-237 / 163	0.01 (11)
J-C	-10312 / 3091	-115.2	-115.2	0.25 (2)	3.61	F-D	-3412 / 11500	0.86 (1)
C-K	-10312 / 3092	-115.2	-115.2	0.25 (1)	3.59	A-G	-2135 / 7312	0.55 (1)
K-D	-10312 / 3092	-115.2	-115.2	0.25 (1)	3.59			
E-D	-5333 / 1614	0.0	0.0	0.12 (1)	7.46			
H-A	-6455 / 1926	0.0	0.0	0.14 (1)	6.94			
H-G	-77 / 46	-39.5	-39.5	0.03 (3)	6.25			
G-L	-1974 / 6747	-39.5	-39.5	0.81 (2)	6.25			
L-M	-1974 / 6747	-39.5	-39.5	0.81 (2)	6.25			
M-N	-1974 / 6747	-39.5	-39.5	0.81 (2)	6.25			
N-F	-1974 / 6747	-39.5	-39.5	0.81 (2)	6.25			
F-O	-12 / 32	-39.5	-39.5	0.73 (1)	6.25			
O-P	-12 / 32	-39.5	-39.5	0.73 (1)	6.25			
P-Q	-12 / 32	-39.5	-39.5	0.73 (1)	6.25			
Q-E	-12 / 32	-39.5	-39.5	0.73 (1)	6.25			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
B	1-7-8	1	87	BACK	VERT	TOTAL	-	C1
G	1-7-4	-2429	-2429	545	FRONT	TOTAL	-	C1
I	1-8-4	5	1	9	BACK	TOTAL	-	C1
J	2-2-4	1	-18	72	BACK	TOTAL	-	C1
K	4-2-4	1	-18	87	BACK	TOTAL	-	C1
L	5-2-4	1	-18	87	BACK	TOTAL	-	C1
M	2-2-4	6	1	9	BACK	TOTAL	-	C1
N	3-7-4	-2429	-2429	523	FRONT	TOTAL	-	C1
O	4-2-4	6	1	9	BACK	TOTAL	-	C1
P	5-7-4	-2429	-2429	545	FRONT	TOTAL	-	C1
Q	8-2-4	6	1	9	BACK	TOTAL	-	C1

TOTAL WEIGHT = 3 X 35 = 104 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 33.4 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.4 PSF
TOTAL LOAD = 57.3 PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2015, ABC 2019
- PART 4 OF CBC 2012 (2010 AMENDMENT)
- CSA 089-14
- TPIC 2014

DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED
- PERCENTAGE OF GROUND SNOW LOAD IS USER-DEFINED.

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/180 (0.52")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSL: TC=0.25/1.00 (C-D:1), BC=0.73/1.00 (E-F:1),
WB=0.86/1.00 (D-F:1), SS=0.83/1.00 (E-F:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
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	650	371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.86 (A) (INPUT = 0.90)
JSI METAL= 0.68 (G) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2124053 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
418363	T81	1	3	GREENPARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 M Tek Industries, Inc. Fri Jul 23 09:32:55 2021 Page 2

ID:ei87qKO71H6SRnOiDd2DVSzKFvC-1mkjpt0T6MSu8pLGQ2qKv2eoQ5B7uRZGbAGzisyvEZs

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	6.0	2.00	2.75
B	TTWW-m	MT20	5.0	8.0	2.00	3.00
C	TMW-w	MT20	2.0	4.0		
D	TMVW-t	MT20	5.0	8.0	2.00	2.75
E	BMV1-t	MT20	4.0	9.0	Edge	1.50
F	BMWWW-t	MT20	7.0	12.0	4.25	3.75
G	BMWW-t	MT20	6.0	9.0	4.50	2.25
H	BMV1-p	MT20	3.0	6.0		

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

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Q	6-7-4	-2429	-2429	545	FRONT	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

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

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBC 4.1.8.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (30-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, Cp0g, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 3.0 PSF AND 5.0 PSF RESPECTIVELY.

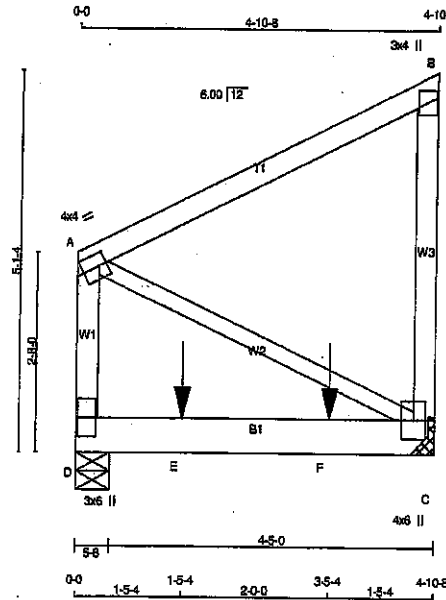


Structural component only
DWG# T-2124053 012

JOB NAME 418363	TRUSS NAME T82	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:33:39 2021 Page 1
ID:Oitqk5APjQaBbkRIRWnRoQszKI98-FxzA4UcdG?P4hJSkG4EBfuGwQzQIRWcb0McuYvSdA



Scale = 1/28.3

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
D - A	2x4	DRY	No.2	SPF
A - B	2x4	DRY	No.2	SPF
C - B	2x4	DRY	No.2	SPF
D - C	2x6	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
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		
D-A 1	12	TOP
A-B 1	12	TOP
B-C 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
D-C 2	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	UPLIFT		
D	1555	0	1555	0	5-8	5-8
C	1555	0	1555	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	1098	730/0	0/0	0/0	0/0	368/0	0/0
C	1098	730/0	0/0	0/0	0/0	368/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)		
FR-TO		FROM TO			FR-TO				
D-A	-224/0	0.0	0.0	0.02 (1)	7.81	A-C	0/0	0.00 (1)	
A-B	0/0	-91.8	-91.8	0.20 (1)	10.00				
C-B	-224/0	0.0	0.0	0.05 (1)	7.81				
D-E	0/0	-18.5	-18.5	0.70 (1)	10.00				
E-F	0/0	-18.5	-18.5	0.70 (1)	10.00				
F-C	0/0	-18.5	-18.5	0.70 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	1-5-4	-908	-908		BACK	VERT	TOTAL		C1
F	3-5-4	-908	-908		BACK	VERT	TOTAL		

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 26 = 52 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 81.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.13")
CALCULATED VERT. DEFL.(LL) = L/848 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.13")
CALCULATED VERT. DEFL.(TL) = L/451 (0.13")

CSI: TO=0.20/1.00 (A-B:1), BC=0.70/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SS=0.44/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

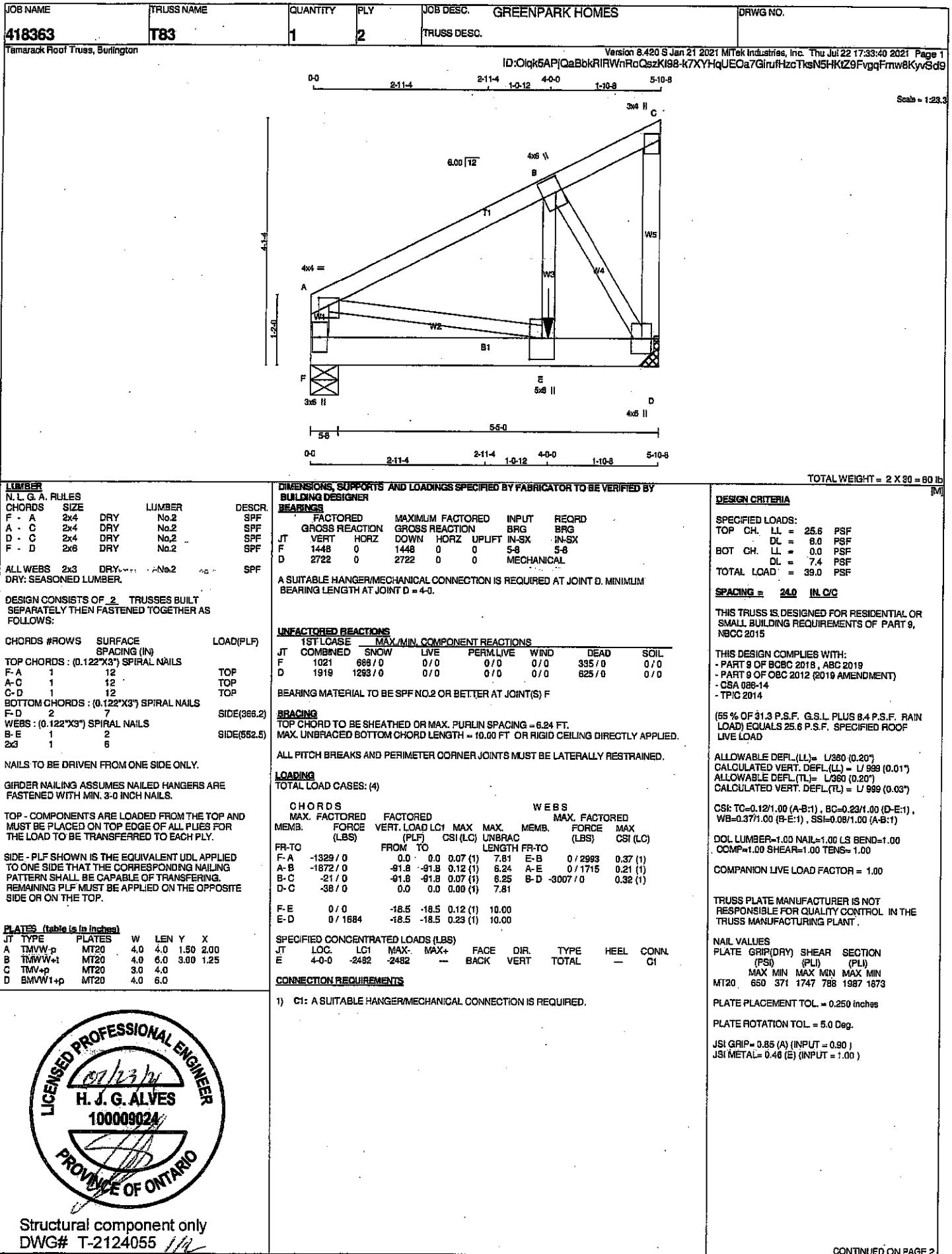
PLATE PLACEMENT TOL. = 0.250 inches

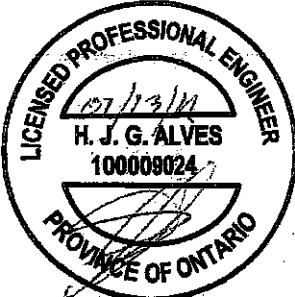
PLATE ROTATION TOL. = 5.0 Deg.

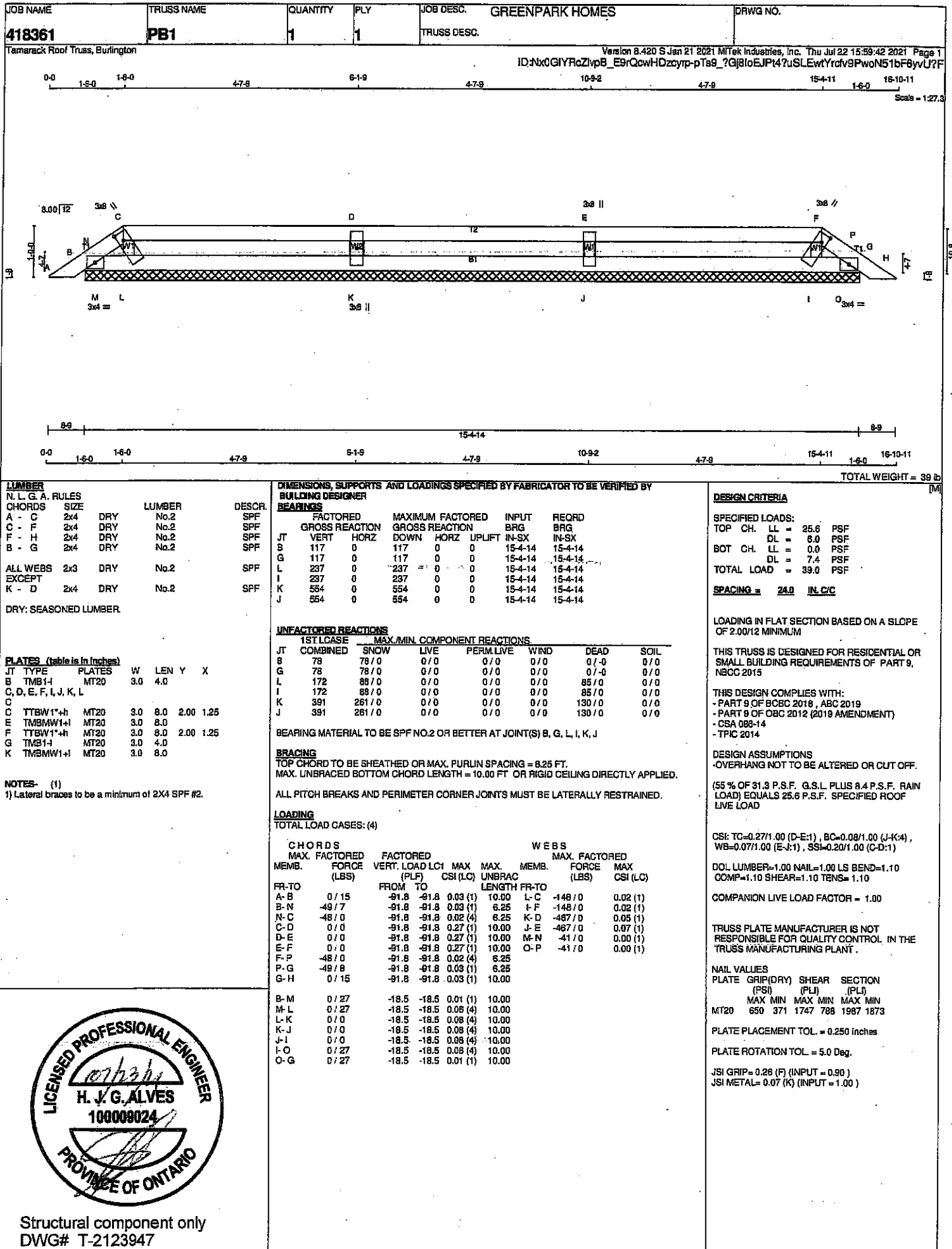
JSI GRIP= 0.07 (A) (INPUT = 0.90)
JSI METAL= 0.03 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124054

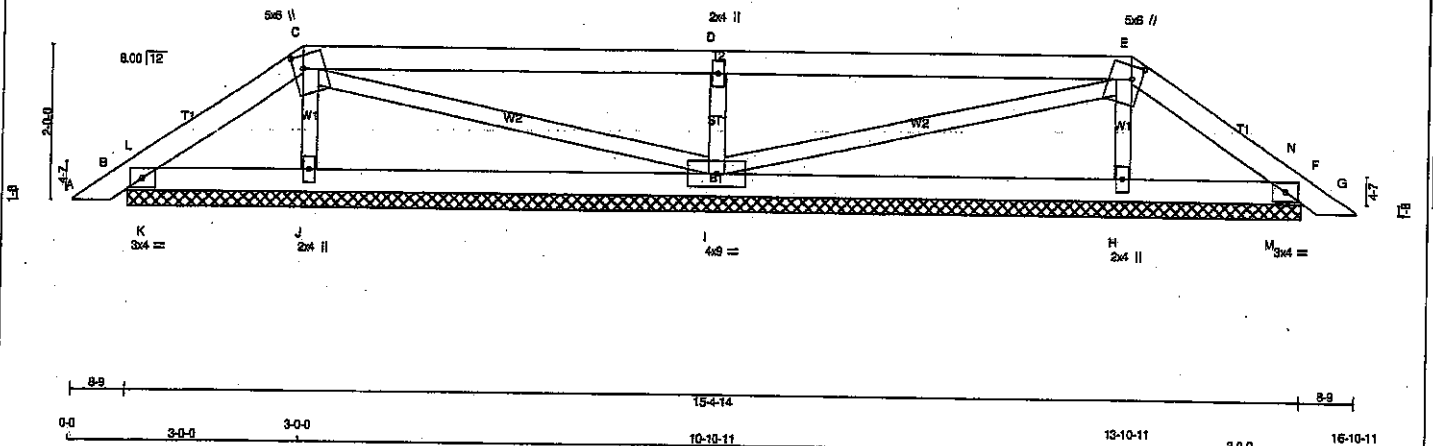
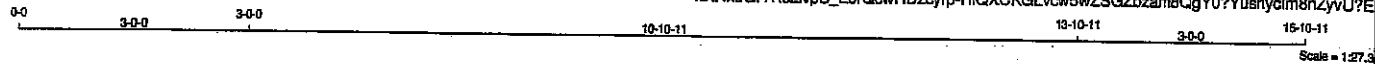


JOB NAME 418363	TRUSS NAME T83	QUANTITY 1	PLY 2	JOB DESC. GREENPARK HOMES	DRWG NO.																		
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:33:40 2021 Page 2 ID:OicK5APIQaBbkRIRWnRoQazKJ98-k7XYHqUEOa7GinufHzcTksN5HKZ9FvqqFmw8KyyvSd9																			
PLATES (table is in inches) <table border="1"> <thead> <tr> <th>JT TYPE</th> <th>PLATES</th> <th>W</th> <th>LEN</th> <th>Y</th> <th>X</th> </tr> </thead> <tbody> <tr> <td>E BMWW-n</td> <td>MT20</td> <td>5.0</td> <td>8.0</td> <td>4.25</td> <td>2.50</td> </tr> <tr> <td>F BMV1-p</td> <td>MT20</td> <td>3.0</td> <td>6.0</td> <td></td> <td></td> </tr> </tbody> </table> NOTES- (1) 1) Lateral braces to be a minimum of 2X4 SPF #2.						JT TYPE	PLATES	W	LEN	Y	X	E BMWW-n	MT20	5.0	8.0	4.25	2.50	F BMV1-p	MT20	3.0	6.0		
JT TYPE	PLATES	W	LEN	Y	X																		
E BMWW-n	MT20	5.0	8.0	4.25	2.50																		
F BMV1-p	MT20	3.0	6.0																				
 Structural component only DWG# T-2124055 <i>272</i>																							



JOB NAME 418361	TRUSS NAME PB2	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Thu Jul 22 15:59:43 2021 Page 1
ID:NxOGiYRcZlpB_E8rQcwHDZcyp-HIQXCKGLvcw5wZSGZbam8QgY0?Yuanym8nZyvU?E



LUMBER

N.L.G.A. RULES

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTWW+M	MT20	5.0	6.0	2.00	1.50
D	TWW+M	MT20	2.0	4.0		
E	TTWW+M	MT20	5.0	6.0	2.00	1.50
F	TMB1-I	MT20	3.0	4.0		
H	BMW1+M	MT20	2.0	4.0		
I	BMW1+M	MT20	4.0	9.0		
J	BMW1+M	MT20	2.0	4.0		

NOTES-

(1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
B	199	0	15-4-14	15-4-14
F	199	0	15-4-14	15-4-14
J	738	0	15-4-14	15-4-14
J	340	0	15-4-14	15-4-14
H	340	0	15-4-14	15-4-14

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	138	107 / 0	0 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
F	138	107 / 0	0 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
J	520	353 / 0	0 / 0	0 / 0	0 / 0	0 / 0	167 / 0	0 / 0
J	243	144 / 0	0 / 0	0 / 0	0 / 0	0 / 0	100 / 0	0 / 0
H	243	144 / 0	0 / 0	0 / 0	0 / 0	0 / 0	100 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 15	-91.8 -91.8	0.03 (1)	I-D	-624 / 0	0.09 (1)	
B-L	-32 / 0	-91.8 -91.8	0.02 (1)	J-C	-235 / 0	0.03 (1)	
L-C	-58 / 0	-91.8 -91.8	0.05 (1)	H-E	-235 / 0	0.03 (1)	
C-D	-8 / 0	-91.8 -91.8	0.46 (1)	C-I	-22 / 0	0.01 (1)	
D-E	-8 / 0	-91.8 -91.8	0.46 (1)	I-E	-22 / 0	0.01 (1)	
E-N	-58 / 0	-91.8 -91.8	0.05 (1)	K-L	-144 / 0	0.00 (1)	
N-F	-32 / 0	-91.8 -91.8	0.02 (1)	M-N	-144 / 0	0.00 (1)	
F-G	0 / 15	-91.8 -91.8	0.03 (1)				
B-K	0 / 45	-18.5 -18.5	0.06 (1)				
K-J	0 / 45	-18.5 -18.5	0.06 (1)				
J-I	0 / 29	-18.5 -18.5	0.12 (4)				
I-H	0 / 29	-18.5 -18.5	0.12 (4)				
H-M	0 / 45	-18.5 -18.5	0.08 (4)				
M-F	0 / 45	-18.5 -18.5	0.06 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.5	PSF
DL	= 6.0	PSF
BOT CH. LL	= 0.0	PSF
DL	= 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

CS1: TC=0.46/1.00 (D-E-1), BC=0.12/1.00 (H-I-4), WB=0.09/1.00 (D-I-1), SS=0.24/1.00 (C-D-1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENG=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)	(PLJ)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.31 (D) (INPUT = 0.99)
JSI METAL= 0.13 (D) (INPUT = 1.00)

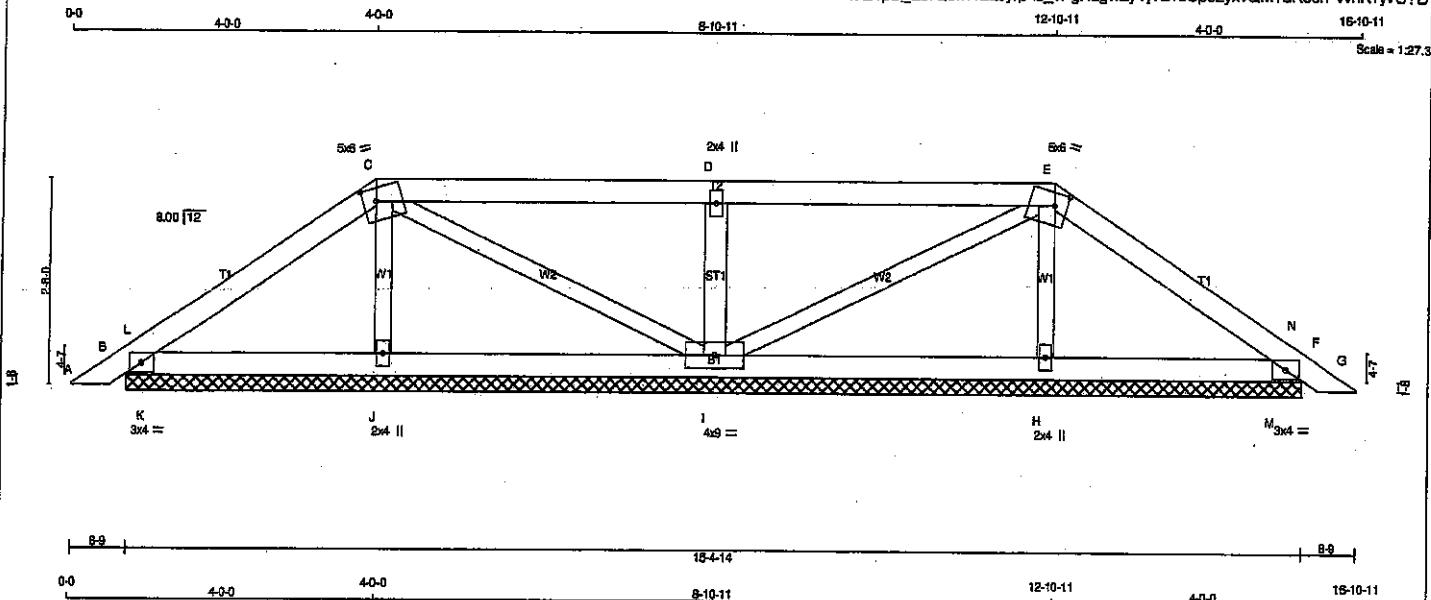


Structural component only
DWG# T-2123948

JOB NAME 418361	TRUSS NAME PB3	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 15:59:44 2021 Page 1
ID:1x0GIYRcZivpB_E9rQowHDzcymp-ls_vPgHzgw2yYf1S7JUpJLxvQM1dK85rPWhK7yvU?D



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

DRY: SEASONED LUMBER.
DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	TOP
C - E	12	TOP
E - G	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B - F	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	8	
2x4	8	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTWW-m	MT20	5.0	8.0	2.00 2.00
D	TMW-w	MT20	2.0	4.0	
E	TTWW-m	MT20	5.0	8.0	2.00 2.00
F	TMB1-I	MT20	3.0	4.0	
H	BMW1-w	MT20	2.0	4.0	
I	BMWW1-I	MT20	4.0	9.0	
J	BMW1-w	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
B	274	0	274	0	0	15-4-14	15-4-14		
F	274	0	274	0	0	15-4-14	15-4-14		
I	623	0	623	0	0	15-4-14	15-4-14		
J	323	0	323	0	0	15-4-14	15-4-14		
H	323	0	323	0	0	15-4-14	15-4-14		

UNFACTORED REACTIONS						
JT	1ST LCASE	MAX	MIN	COMPONENT	REACTIONS	
B	191	138 / 0	0 / 0	PERM	LIVE	DEAD
F	191	138 / 0	0 / 0	PERM	LIVE	DEAD
I	438	301 / 0	0 / 0	PERM	LIVE	DEAD
J	231	138 / 0	0 / 0	PERM	LIVE	DEAD
H	231	138 / 0	0 / 0	PERM	LIVE	DEAD

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS B, F, I, J, H

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 15	-91.8	-91.8 0.01 (1)	10.00	I-D	-510 / 0	0.02 (1)
B-L	-31 / 0	-91.8	-91.8 0.01 (1)	6.25	J-C	-210 / 0	0.01 (1)
L-C	-89 / 0	-91.8	-91.8 0.04 (1)	6.25	H-E	-210 / 0	0.01 (1)
C-D	-15 / 0	-91.8	-91.8 0.10 (1)	6.25	C-I	-50 / 0	0.01 (1)
D-E	-15 / 0	-91.8	-91.8 0.10 (1)	6.25	I-E	-50 / 0	0.01 (1)
E-N	-89 / 0	-91.8	-91.8 0.04 (1)	6.25	K-L	-240 / 0	0.00 (1)
N-F	-31 / 0	-91.8	-91.8 0.01 (1)	6.25	M-N	-240 / 0	0.00 (1)
F-G	0 / 15	-91.8	-91.8 0.01 (1)	10.00			
B-K	0 / 69	-18.5	-18.5 0.04 (1)	10.00			
K-J	0 / 69	-18.5	-18.5 0.04 (1)	10.00			
J-I	0 / 59	-18.5	-18.5 0.02 (1)	10.00			
I-H	0 / 59	-18.5	-18.5 0.02 (1)	10.00			
H-M	0 / 69	-18.5	-18.5 0.04 (1)	10.00			
M-F	0 / 69	-18.5	-18.5 0.04 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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 2015

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

(55 % OF 31.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10/1.00 (C-D:1), BC=0.04/1.00 (H-M:1), WB=0.02/1.00 (D-I:1), SSI=0.07/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLB)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 786 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.08 (D) (INPUT = 0.90)
JSI METAL = 0.04 (D) (INPUT = 1.00)

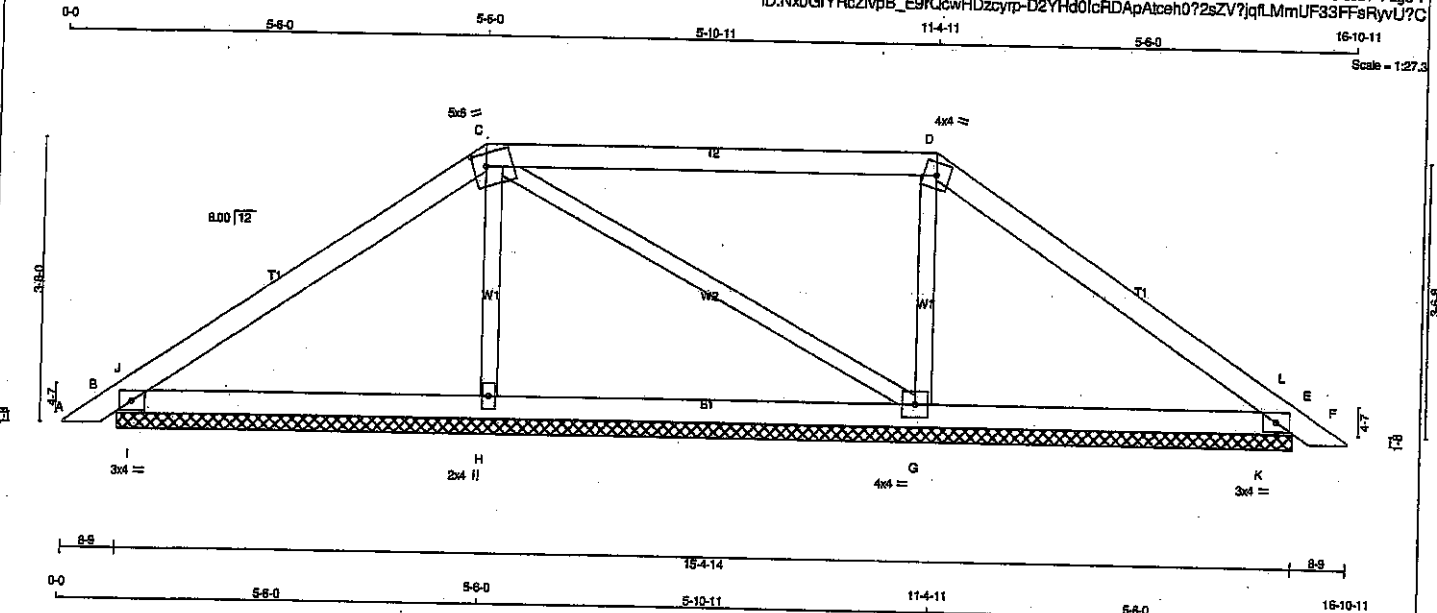


Structural component only
DWG# T-2123949

JOB NAME 418361	TRUSS NAME PB4	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 5 Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 15:59:45 2021 Page 1
ID:Nx0GIYRcZivpB_E9rQcwHDzcytp-D2YHd0lcRDAPAtceh072sZV?jqlLmMUF33FFsRyvU?C



TOTAL WEIGHT = 49 lb

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 is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.00	2.00
D	TTWW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMWV1-I	MT20	4.0	4.0		
H	BMW1-w	MT20	2.0	4.0		

NOTES

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
B	417	0	417	0
E	394	0	394	0
H	471	0	471	0
G	535	0	535	0

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
B	292	210 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
E	276	197 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
H	335	208 / 0	0 / 0	0 / 0	0 / 0	130 / 0	0 / 0
G	379	242 / 0	0 / 0	0 / 0	0 / 0	138 / 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)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 15	-91.8 -91.8	0.03 (1)	10.00	H-C	-327 / 0	0.07 (1)
B-J	-48 / 0	-91.8 -91.8	0.11 (1)	6.25	G-D	-371 / 0	0.08 (1)
J-C	-208 / 0	-91.8 -91.8	0.26 (1)	6.25	C-G	-41 / 0	0.03 (1)
C-D	-118 / 0	-91.8 -91.8	0.55 (1)	6.25	I-J	-478 / 0	0.00 (1)
D-L	-184 / 0	-91.8 -91.8	0.26 (1)	6.25	K-L	-481 / 0	0.00 (1)
L-E	-38 / 3	-91.8 -91.8	0.11 (1)	6.25			
E-F	0 / 15	-91.8 -91.8	0.03 (1)	10.00			
B-I	0 / 162	-18.5 -18.5	0.22 (1)	10.00			
I-H	0 / 162	-18.5 -18.5	0.22 (1)	10.00			
H-G	0 / 152	-18.5 -18.5	0.13 (4)	10.00			
G-K	0 / 128	-18.5 -18.5	0.22 (1)	10.00			
K-E	0 / 128	-18.5 -18.5	0.22 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.55/1.00 (C-D:1), BC=0.22/1.00 (B-I:1), WB=0.08/1.00 (D-G:1), SS=0.37/1.00 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

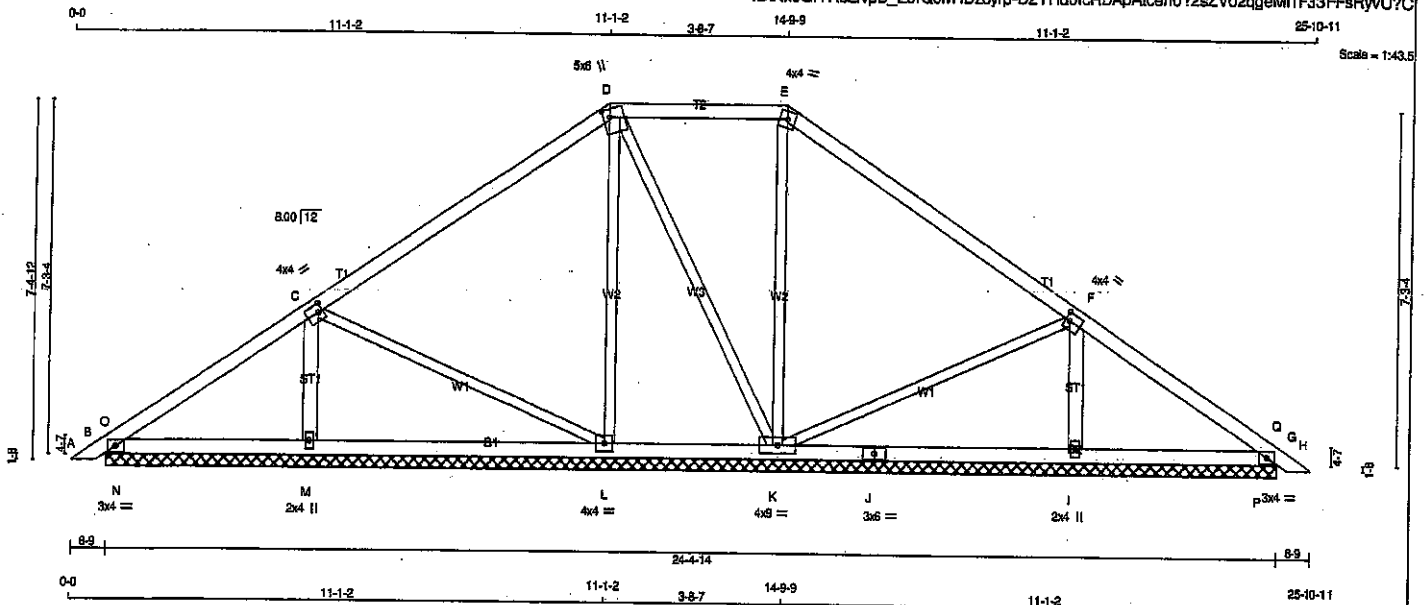
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.34 (B) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123950

JOB NAME 418361	TRUSS NAME PB5	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 5 Jan 21 2021 Mittek Industries, Inc. Thu Jul 22 15:59:45 2021 Page 1			
		ID:Nx0GIYRcZvpB_E9rQcwHDZoyr-D2YHd0lcRDAPAtcah0?2sZV02qgeMI1F33FFsRyvU7C			



LUMBER

N.L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4 DRY	No.2	SPF
D - E	2x4 DRY	No.2	SPF
E - H	2x4 DRY	No.2	SPF
B - J	2x4 DRY	No.2	SPF
J - G	2x4 DRY	No.2	SPF

ALL WEBS	2x3 DRY	No.2	SPF
EXCEPT			
M - C	2x4 DRY	No.2	SPF
I - F	2x4 DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TMB1-W	MT20	4.0	4.0	2.00	1.00
D	TTWW-m	MT20	5.0	6.0	2.00	1.50
E	TTW-m	MT20	4.0	4.0		
F	TMB1-W	MT20	4.0	4.0	2.00	1.00
G	TMB1-I	MT20	3.0	4.0		
I	BMW1-w	MT20	2.0	4.0		
J	BS-I	MT20	3.0	6.0		
K	BMWW1-t	MT20	4.0	9.0		
L	BMWW1-t	MT20	4.0	4.0		
M	BMW1-w	MT20	2.0	4.0		

NOTES:

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
B	288	0	288	0	24-4-14 (15-1248-14)	
M	684	0	684	0	24-4-14 (15-1248-14)	
L	648	0	648	0	24-4-14 (15-1248-14)	
K	333	0	333	0	24-4-14 (15-1248-14)	
G	625	0	625	0	24-4-14 (15-1248-14)	
	250	0	250	0	24-4-14 (15-1248-14)	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	COMBINED	MAX. MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	188	135 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0
M	483	319 / 0	0 / 0	0 / 0	0 / 0	184 / 0	0 / 0
L	458	299 / 0	0 / 0	0 / 0	0 / 0	159 / 0	0 / 0
K	239	137 / 0	0 / 0	0 / 0	0 / 0	103 / 0	0 / 0
G	440	300 / 0	0 / 0	0 / 0	0 / 0	140 / 0	0 / 0
	175	124 / 0	0 / 0	0 / 0	0 / 0	51 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, M, L, K, 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. (LC1)	MAX. UNBRACED LENGTH	MEMB.	MAX. FORCE (LBS)	MAX. (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 15	-91.8	-91.8 0.03 (1)	10.00	M-C	-566 / 0	0.08 (1)
B-D	-183 / 0	-91.8	-91.8 0.02 (4)	6.25	I-F	-530 / 0	0.07 (1)
O-C	-78 / 0	-91.8	-91.8 0.46 (1)	6.25	L-D	-231 / 0	0.21 (1)
C-D	-116 / 0	-91.8	-91.8 0.46 (1)	6.25	K-E	-389 / 0	0.36 (1)
D-E	-7 / 0	-91.8	-91.8 0.21 (1)	10.00	D-K	-134 / 0	0.17 (1)
E-F	-45 / 0	-91.8	-91.8 0.46 (1)	6.25	O-L	-38 / 0	0.03 (1)
F-Q	-45 / 0	-91.8	-91.8 0.46 (1)	6.25	K-F	-73 / 0	0.06 (1)
Q-G	-130 / 0	-91.8	-91.8 0.02 (1)	6.25	N-O	-47 / 13	0.00 (1)
G-H	0 / 15	-91.8	-91.8 0.03 (1)	10.00	P-Q	-49 / 12	0.00 (1)
B-N	0 / 106	-18.5	-18.5 0.04 (1)	10.00			
N-M	0 / 106	-18.5	-18.5 0.14 (4)	10.00			
M-L	0 / 106	-18.5	-18.5 0.14 (4)	10.00			
L-K	0 / 68	-18.5	-18.5 0.10 (4)	10.00			
K-J	0 / 79	-18.5	-18.5 0.14 (4)	10.00			
J-I	0 / 79	-18.5	-18.5 0.14 (4)	10.00			
I-P	0 / 79	-18.5	-18.5 0.14 (4)	10.00			
P-G	0 / 79	-18.5	-18.5 0.04 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 2015

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.48/1.00 (C-D-1), BC=0.14/1.00 (M-N-4), WB=0.36/1.00 (E-K-1), SS=0.22/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650	371	1747
	768	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.82 (C) (INPUT = 0.50)

JSI METAL=0.18 (J) (INPUT = 1.00)

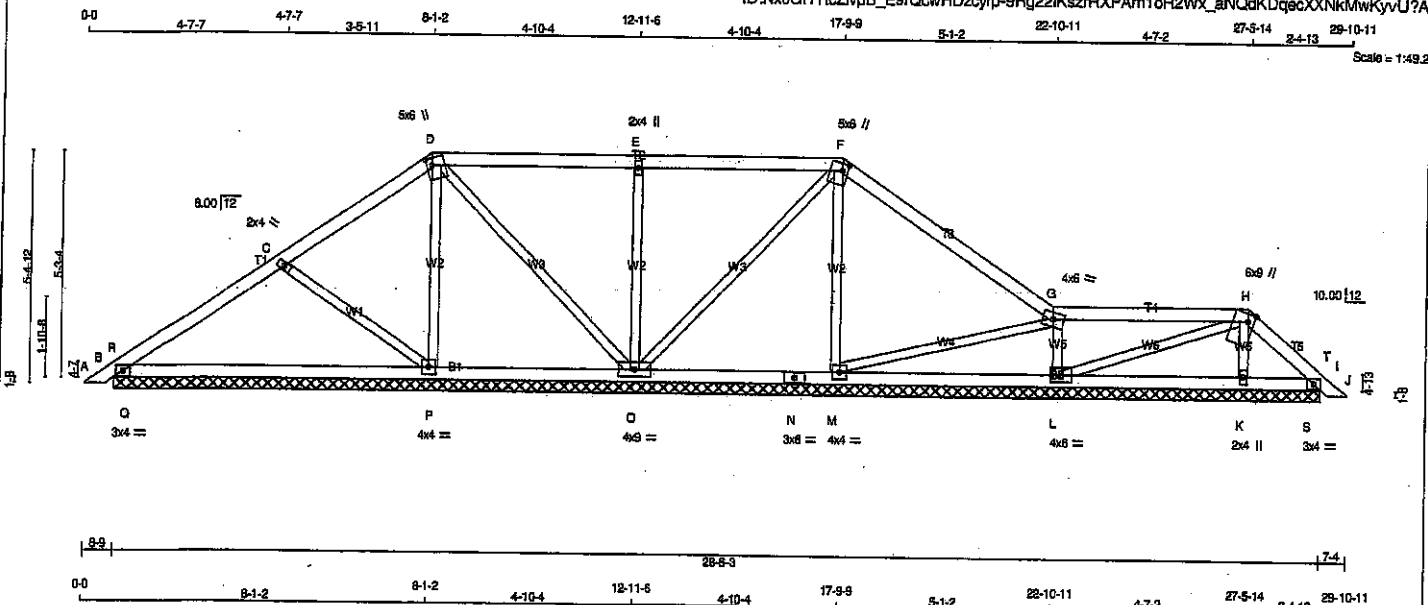


Structural component only
DWG# T-2123951

JOB NAME 418361	TRUSS NAME PB7	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mtek Industries, Inc. Thu Jul 22 15:59:47 2021 Page 1
ID: N0GIYRcZlvpB_E9rQowHDzcyrp-9Rg22IKszrXPArm1oR2Wx_aNQdKdQecXXNkMwKyvU?A



LUMBER

N. L. G. A. RULES

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TMW+W	MT20	2.0	4.0		
D	TTWW+W	MT20	5.0	6.0	2.00	1.50
E	TMW+W	MT20	2.0	4.0		
F	TTWW+W	MT20	5.0	6.0	2.00	1.50
G	TTWW+W	MT20	4.0	6.0		
H	TTWW+W	MT20	5.0	6.0		
I	TMB1-I	MT20	3.0	4.0	Edges 1.75	
K	BMW1+W	MT20	2.0	4.0		
L	BMWW1+W	MT20	4.0	6.0		
M	BMWW1+W	MT20	4.0	4.0		
N	BS-I	MT20	3.0	6.0		
O	BMWW1+W	MT20	4.0	6.0		
P	BMWW1+W	MT20	4.0	4.0		

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

NOTES-

(1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	HORIZ	UPLIFT
B	430	0	0	28-6-3 (15-11222-3)
P	621	0	0	28-6-3 (15-11222-3)
M	381	0	0	28-6-3 (15-11222-3)
O	779	0	0	28-6-3 (15-11222-3)
L	556	0	0	28-6-3 (15-11222-3)
K	305	0	0	28-6-3 (15-11222-3)
I	178	0	0	28-6-3 (15-11222-3)

VALUE IN PARENTHESES INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	308	205/0	0/0	0/0	0/0	98/0	0/0
P	442	274/0	0/0	0/0	0/0	168/0	0/0
M	273	158/0	0/0	0/0	0/0	115/0	0/0
O	544	395/0	0/0	0/0	0/0	150/0	0/0
L	394	257/0	0/0	0/0	0/0	138/0	0/0
K	217	134/0	0/0	0/0	0/0	83/0	0/0
I	124	96/0	0/0	0/0	0/0	28/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, P, M, O, L, K, I

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO						FR-TO			
A-B	0/15	-91.8	-91.8	0.03 (1)	10.00	P-D	-267/0	0.11 (1)	
B-R	-447/0	-91.8	-91.8	0.13 (4)	6.25	M-F	-277/0	0.11 (1)	
R-C	-292/0	-91.8	-91.8	0.21 (1)	6.25	O-E	-558/0	0.23 (1)	
C-D	-3/23	-91.8	-91.8	0.21 (1)	10.00	D-O	-64/0	0.06 (1)	
D-E	0/90	-91.8	-91.8	0.38 (1)	10.00	O-F	-152/0	0.13 (1)	
E-F	0/90	-91.8	-91.8	0.38 (1)	10.00	L-G	-456/0	0.07 (1)	
F-G	-27/0	-91.8	-91.8	0.41 (1)	6.25	K-H	-223/0	0.03 (1)	
G-H	-7/0	-91.8	-91.8	0.33 (1)	10.00	L-H	-30/0	0.01 (1)	
H-T	-69/0	-91.8	-91.8	0.03 (1)	6.25	M-G	-15/0	0.01 (1)	
T-I	-47/0	-91.8	-91.8	0.01 (1)	6.25	C-P	-378/0	0.13 (1)	
I-J	0/14	-91.8	-91.8	0.02 (1)	10.00	Q-R	0/219	0.00 (1)	
						S-T	-111/0	0.03 (1)	
B-Q	0/289	-18.5	-18.5	0.11 (4)	10.00				
Q-P	0/289	-18.5	-18.5	0.20 (4)	10.00				
P-O	-45/0	-18.5	-18.5	0.18 (4)	6.25				
O-N	0/17	-18.5	-18.5	0.10 (4)	10.00				
N-M	0/17	-18.5	-18.5	0.10 (4)	10.00				
M-L	0/37	-18.5	-18.5	0.10 (4)	10.00				
L-K	0/35	-18.5	-18.5	0.09 (4)	10.00				
K-S	0/50	-18.5	-18.5	0.05 (4)	10.00				
S-I	0/50	-18.5	-18.5	0.04 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. CC

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

CSI: TC=0.41/1.00 (F-G-1), BC=0.20/1.00 (P-Q-4), WB=0.23/1.00 (E-O-1), SS=0.22/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (N) (INPUT = 0.90)
JSI METAL= 0.12 (C) (INPUT = 1.00)

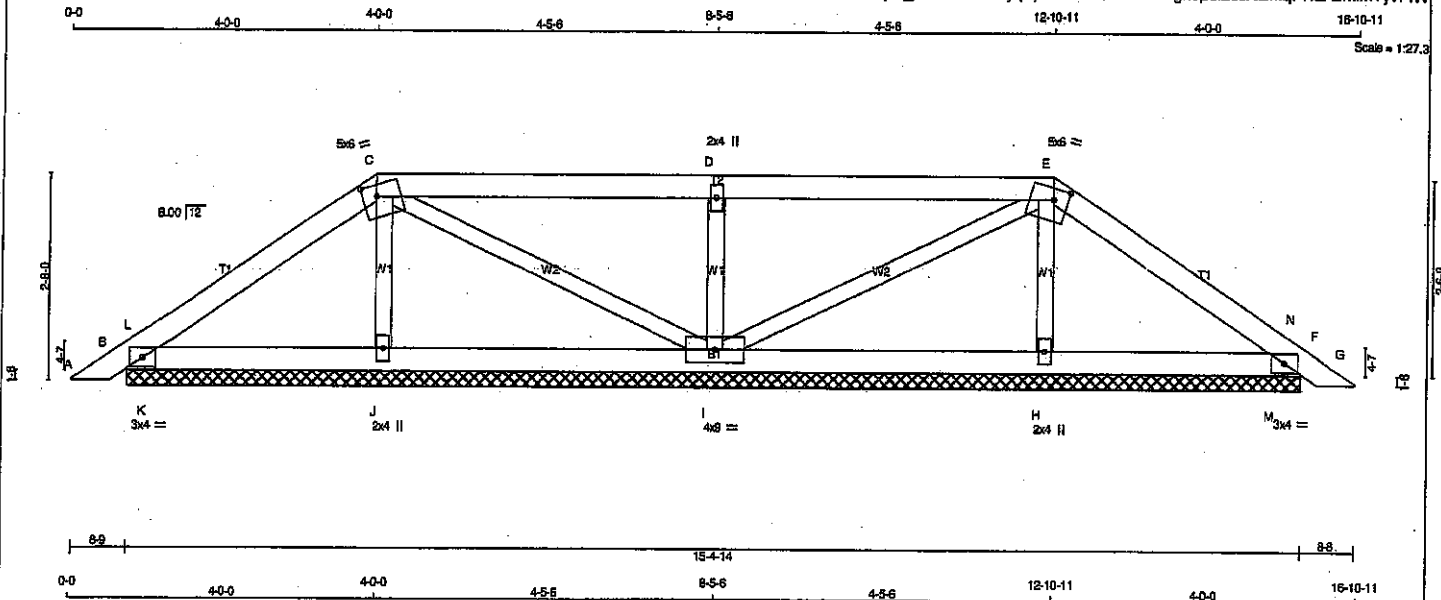


Structural component only
DWG# T-2123953

JOB NAME 418362	TRUSS NAME PB30	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri Jul 28 08:12:13 2021 Page 1

ID: N0G1YRcZlpB_E9rQcwHDzayrp-pF9EbDQFPfPvEIBgn8psfz5JXGmqPl4ZAsMlmVyyvFIW



TOTAL WEIGHT = 51 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - K	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	1.75	2.25
D	TWW-w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	1.75	2.25
F	TMB1-I	MT20	3.0	4.0		
H	BMW1-w	MT20	2.0	4.0		
I	BMW1-w	MT20	4.0	9.0		
J	BMW1-w	MT20	2.0	4.0		

NOTES (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BUILDING DESIGNER

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	273	0	273	0	15-4-14	15-4-14
F	273	0	273	0	15-4-14	15-4-14
J	224	0	224	0	15-4-14	15-4-14
I	224	0	224	0	15-4-14	15-4-14
H	324	0	324	0	15-4-14	15-4-14

UNFACTORED REACTIONS

JT	COMBINED	MAX/MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
B	191	138 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0
F	191	138 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0
J	231	138 / 0	0 / 0	0 / 0	0 / 0	93 / 0	0 / 0
I	438	300 / 0	0 / 0	0 / 0	0 / 0	137 / 0	0 / 0
H	231	138 / 0	0 / 0	0 / 0	0 / 0	93 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 15	-91.8	-91.8 0.03 (1)	J-C	-211 / 0	0.03 (1)	
B-L	-28 / 0	-91.8	-91.8 0.04 (1)	C-I	-49 / 0	0.02 (1)	
L-C	-88 / 0	-91.8	-91.8 0.12 (1)	I-D	-508 / 0	0.08 (1)	
C-D	-14 / 0	-91.8	-91.8 0.31 (1)	D-E	-49 / 0	0.02 (1)	
D-E	-14 / 0	-91.8	-91.8 0.31 (1)	E-H	-211 / 0	0.03 (1)	
E-N	-88 / 0	-91.8	-91.8 0.12 (1)	H-L	-245 / 0	0.00 (1)	
N-F	-28 / 0	-91.8	-91.8 0.04 (1)	M-N	-244 / 0	0.00 (1)	
F-G	0 / 15	-91.8	-91.8 0.03 (1)				
B-K	0 / 89	-18.5	-18.5 0.11 (1)				
K-J	0 / 89	-18.5	-18.5 0.11 (1)				
J-I	0 / 59	-18.5	-18.5 0.07 (1)				
I-H	0 / 59	-18.5	-18.5 0.07 (1)				
H-M	0 / 89	-18.5	-18.5 0.11 (1)				
M-F	0 / 60	-18.5	-18.5 0.11 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 2015

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.31/1.00 (C-D:1), BC=0.11/1.00 (B-K:1), WB=0.08/1.00 (D-I:1), SS=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

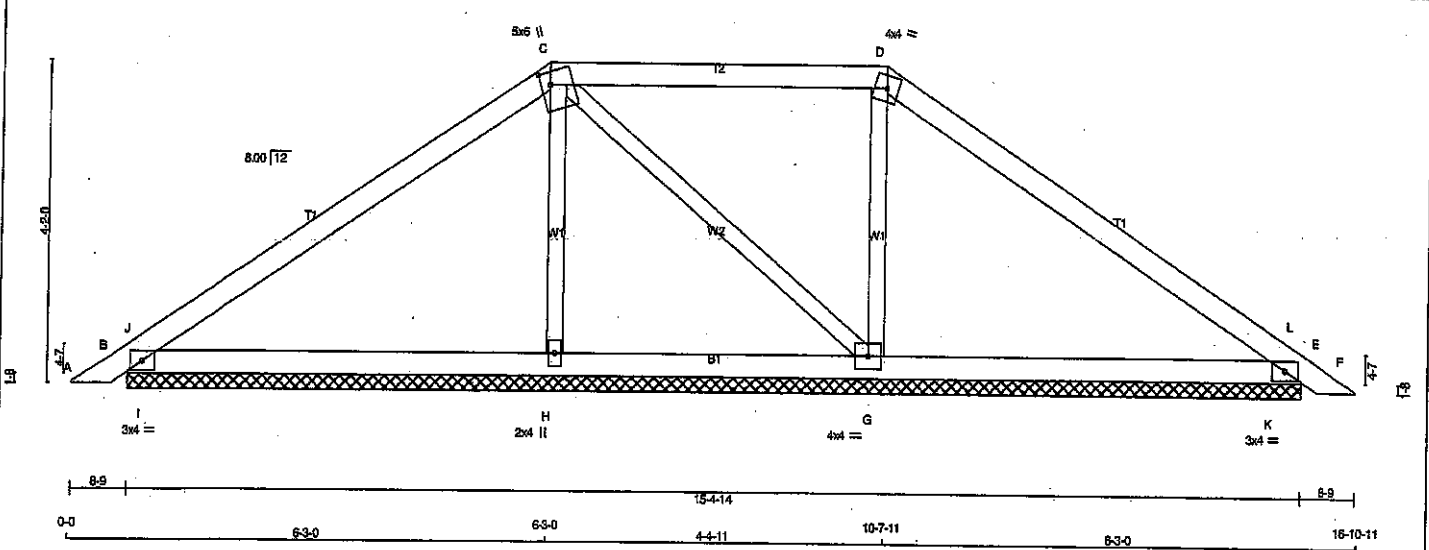


Structural component only
DWG# T-2123986

JOB NAME 418362	TRUSS NAME PB32	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:43:23 2021 Page 1	

ID: Nx0GtYRcZlvpB_E9rCcwHDzcymp-Zik74C_nuc0LFClp2rzzewR199nmpbb4NRnliyvTMI

Scale = 1:27.3



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTWW+m	MT20	5.0	6.0	2.00 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMB1-I	MT20	3.0	4.0	
G	BMWW1-I	MT20	4.0	4.0	
H	BMW1-w	MT20	2.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	486	0	486	0	0	15-4-14	15-4-14
E	486	0	486	0	0	15-4-14	15-4-14
H	385	0	385	0	0	15-4-14	15-4-14
G	486	0	486	0	0	15-4-14	15-4-14

UNFACTORED REACTIONS							
JT	1ST CASE	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
B	341	240 / 0	0 / 0	0 / 0	0 / 0	100 / 0	0 / 0
E	321	224 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
H	275	185 / 0	0 / 0	0 / 0	0 / 0	109 / 0	0 / 0
G	345	224 / 0	0 / 0	0 / 0	0 / 0	121 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 15	-91.8 -91.8	0.03 (1)	10.00	H-C	-244 / 0	0.08 (1)
B-J	-71 / 0	-91.8 -91.8	0.16 (1)	6.25	G-D	-309 / 0	0.08 (1)
J-C	-258 / 0	-91.8 -91.8	0.35 (1)	6.25	C-G	-57 / 0	0.03 (1)
C-D	-154 / 0	-91.8 -91.8	0.30 (1)	6.25	I-J	-622 / 0	0.00 (1)
D-L	-208 / 0	-91.8 -91.8	0.35 (1)	6.25	K-L	-627 / 0	0.00 (1)
L-E	-63 / 30	-91.8 -91.8	0.16 (1)	6.25			
E-F	0 / 15	-91.8 -91.8	0.03 (1)	10.00			
B-I	0 / 204	-18.5 -18.5	0.29 (1)	10.00			
I-H	0 / 204	-18.5 -18.5	0.29 (1)	10.00			
H-G	0 / 197	-18.5 -18.5	0.16 (1)	10.00			
G-K	0 / 193	-18.5 -18.5	0.29 (1)	10.00			
K-E	0 / 193	-18.5 -18.5	0.29 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPG 2014

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

CSI: TC=0.35/1.00 (C-J-I), BC=0.28/1.00 (B-I-I), WB=0.08/1.00 (D-G-I), SS=0.49/1.00 (E-K-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

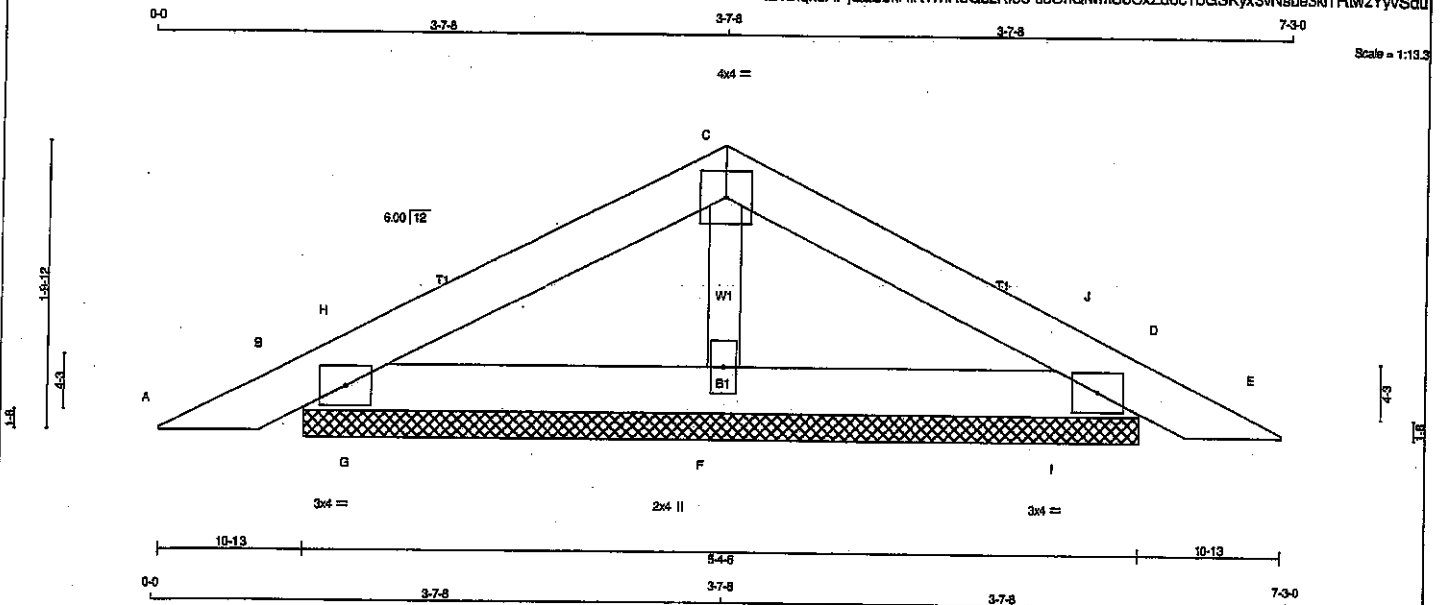
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.40 (B) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123988

JOB NAME 418363	TRUSS NAME PB50	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:32:53 2021 Page 1 ID:Oiqk5APjCaBbkRIRWnRcQszK198-c5CnQlwmS8CxZdoc1bGSKyx3vNsue3k11RtwzYyvSdu	



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-H	MT20	3.0	4.0	
C	TTW-p	MT20	4.0	4.0	
D	TMB1-H	MT20	3.0	4.0	
F	BMW1-w	MT20	2.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORIZ	DOWN	HORIZ	BRG	BRG	IN-SX	IN-SX
B	234	0	234	0	0	5-4-6	5-4-6	5-4-6	5-4-6
D	234	0	234	0	0	5-4-6	5-4-6	5-4-6	5-4-6
F	279	0	279	0	0	5-4-6	5-4-6	5-4-6	5-4-6

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
B	163	118/0	0/0	0/0	0/0	45/0	0/0	
D	163	118/0	0/0	0/0	0/0	45/0	0/0	
F	198	124/0	0/0	0/0	0/0	74/0	0/0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX	LC1 (LBS)
FR-TO		FROM	TO	FR-TO			
A-B	0/16	-91.8	-91.8 0.05 (1)	F-C	-148/0	0.02 (1)	
B-H	-44/0	-91.8	-91.8 0.02 (1)	G-H	-151/0	0.00 (1)	
H-C	-59/0	-91.8	-91.8 0.07 (1)	I-J	-151/0	0.00 (1)	
C-J	-59/0	-91.8	-91.8 0.07 (1)				
J-D	-44/0	-91.8	-91.8 0.02 (1)				
D-E	0/16	-91.8	-91.8 0.05 (1)				
B-G	0/50	-18.5	-18.5 0.08 (1)				
G-F	0/50	-18.5	-18.5 0.08 (1)				
F-I	0/50	-18.5	-18.5 0.08 (1)				
I-D	0/50	-18.5	-18.5 0.08 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

CSI: TC=0.07/1.00 (C-J:1), BC=0.08/1.00 (F-I:1), WB=0.02/1.00 (C-F:1), SS=0.11/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

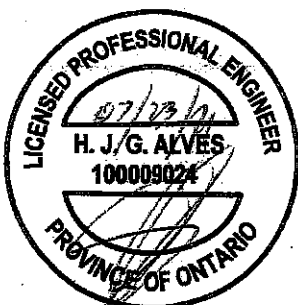
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX MIN
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)

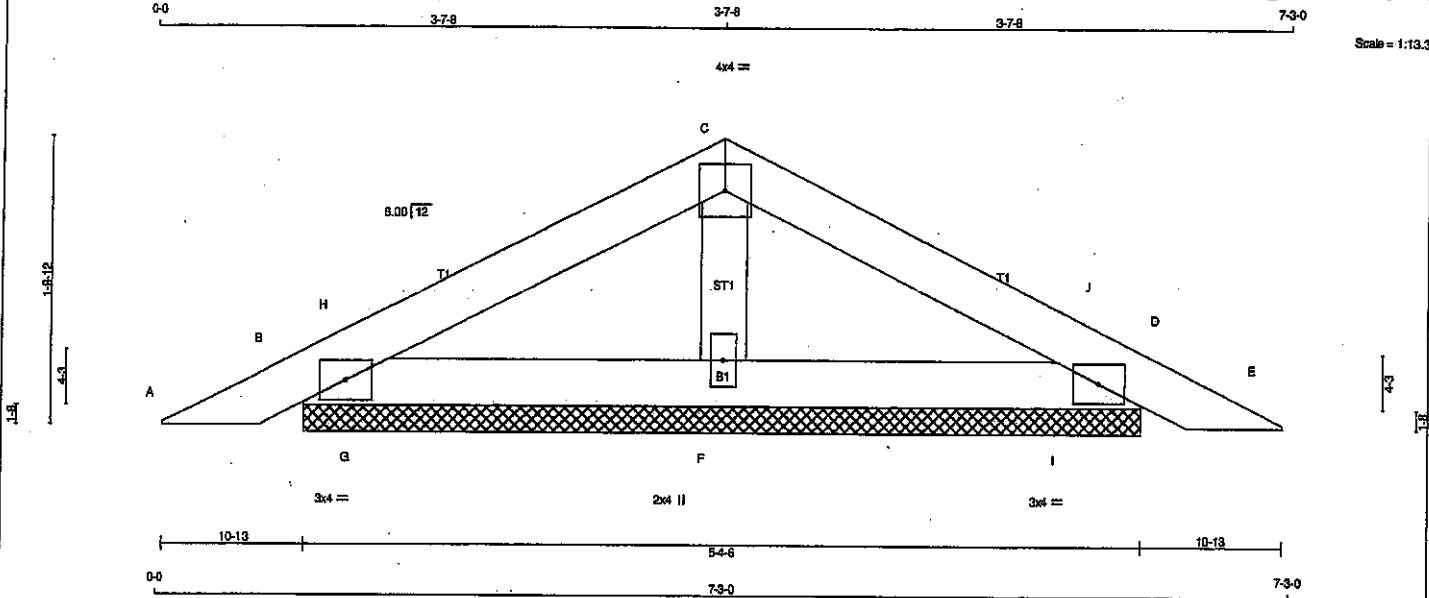
JSI METAL= 0.04 (D) (INPUT = 1.00)



Structural component only
DWG# T-2124016

JOB NAME 418363	TRUSS NAME PB50Z	QUANTITY 1	PLY 3	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 6.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:32:54 2021 Page 1			

ID:Oiqk5APjQaBbkRfRWnRoQszKl8B-4Hl8d5xODRKoBnNpbJnht9TFQnD_NWDuF5dUW?yvSdt



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

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	TOP
C-E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B-D	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x4	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTW-p	MT20	4.0	4.0	
D	TMB1-I	MT20	3.0	4.0	
F	BMW1-w	MT20	2.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
B	231	0	231	0	5-4-6
D	231	0	231	0	5-4-6
F	283	0	283	0	5-4-6

UNFACTORED REACTIONS		1ST CASE	MAX. MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	182	117 / 0	0 / 0	0 / 0	0 / 0	45 / 0	0 / 0
D	182	117 / 0	0 / 0	0 / 0	0 / 0	45 / 0	0 / 0
F	201	127 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX.	MAX.	UNBRAC	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	OSI (LC)	LENGTH	FR-TO	MEMB.	FORCE (LBS)	OSI (LC)		
A-B	0 / 16	-91.8	-91.8	0.02 (1)	10.00	F-C	-154 / 0	0.01 (1)		
B-H	-40 / 0	-91.8	-91.8	0.00 (1)	6.25	G-H	-148 / 0	0.00 (1)		
H-C	-53 / 0	-91.8	-91.8	0.02 (1)	6.25	I-J	-148 / 0	0.00 (1)		
C-J	-53 / 0	-91.8	-91.8	0.02 (1)	6.25					
J-D	-40 / 0	-91.8	-91.8	0.00 (1)	6.25					
D-E	0 / 16	-91.8	-91.8	0.02 (1)	10.00					
B-G	0 / 45	-18.5	-18.5	0.03 (1)	10.00					
G-F	0 / 45	-18.5	-18.5	0.03 (1)	10.00					
F-I	0 / 45	-18.5	-18.5	0.03 (1)	10.00					
I-D	0 / 45	-18.5	-18.5	0.03 (1)	10.00					

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

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

CSI: TC=0.02/1.00 (C-J-1), BC=0.03/1.00 (F-1-1), WB=0.01/1.00 (C-F-1), SS=0.03/1.00 (B-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 850 371 1747 798 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

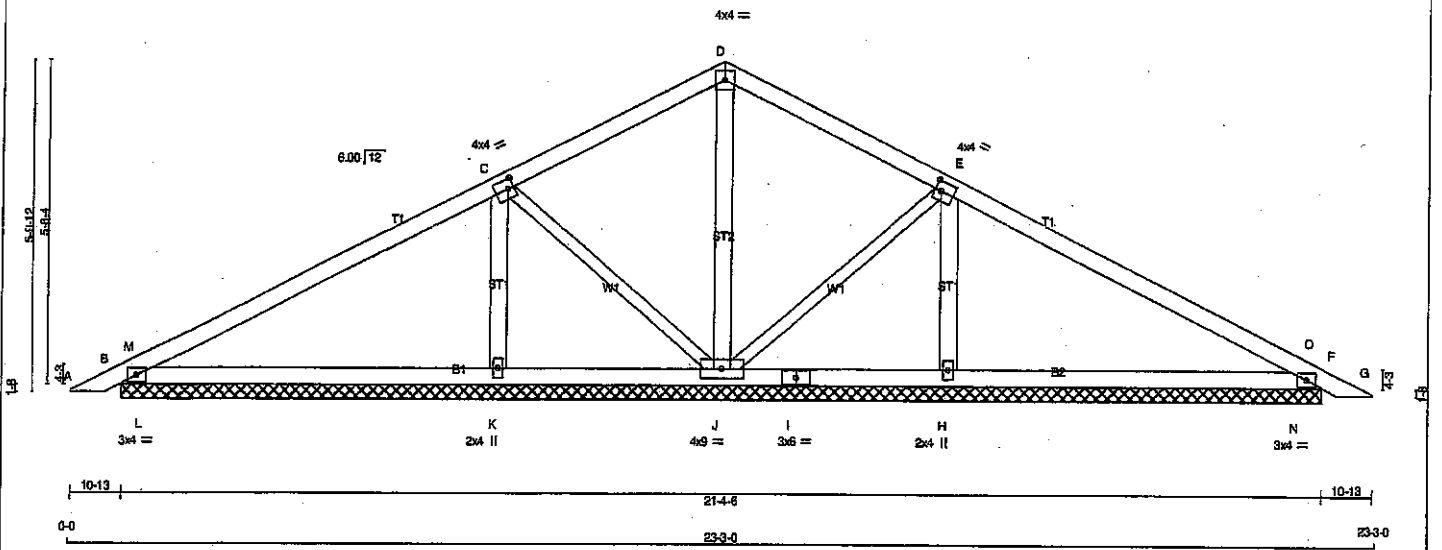
JSI GRIP = 0.06 (B) (INPUT = 0.90)
JSI METAL = 0.01 (D) (INPUT = 1.00)



Structural component only
DWG# T-2124017

JOB NAME 418363	TRUSS NAME PB51	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:32:55 2021 Page 1 ID:87gKQ71H6SRnO/Dd2DVSzKFyO-YTJXrRyO_ISioxy790lwPN0JTBVE6yN2UIM12RyvSds	

0-0 11-7-8 11-7-8 11-7-8 23-3-0
Scale = 1:37.1



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TMWV-I	MT20	4.0	4.0	2.00	1.25
D	TTW-p	MT20	4.0	4.0		
E	TMWV-I	MT20	4.0	4.0	2.00	1.25
F	TMB1-I	MT20	3.0	4.0		
H	BMW1-w	MT20	2.0	4.0		
I	BS-I	MT20	3.0	8.0		
J	BMWVW1-I	MT20	4.0	9.0		
K	BMW1-w	MT20	2.0	4.0		

NOTES:

- (1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	DOWN	BRG	BRG
B	446	0	446	0	0
J	396	0	396	0	0
K	611	0	611	0	0
H	611	0	611	0	0
F	446	0	446	0	0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	314	218 / 0	0 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
J	278	187 / 0	0 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
K	434	275 / 0	0 / 0	0 / 0	0 / 0	0 / 0	159 / 0	0 / 0
H	434	275 / 0	0 / 0	0 / 0	0 / 0	0 / 0	159 / 0	0 / 0
F	314	218 / 0	0 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 16	-91.8	10.00	J-D	-192 / 0
B-M	-72 / 0	-91.8	6.25	K-C	-418 / 0
M-C	-139 / 0	-91.8	6.25	H-E	-418 / 0
C-D	-49 / 0	-91.8	6.25	C-J	-170 / 0
D-E	-49 / 0	-91.8	6.25	J-E	-170 / 0
E-O	-139 / 0	-91.8	6.25	L-M	-459 / 12
O-F	-72 / 0	-91.8	6.25	N-O	-459 / 12
F-G	0 / 16	-91.8	10.00		
B-L	0 / 140	-18.5	10.00		
L-K	0 / 140	-18.5	10.00		
K-J	0 / 140	-18.5	10.00		
J-I	0 / 140	-18.5	10.00		
I-H	0 / 140	-18.5	10.00		
H-N	0 / 140	-18.5	10.00		
N-F	0 / 140	-18.5	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.45/1.00 (C-M1), BC=0.28/1.00 (K-L1), WB=0.09/1.00 (C-J1), SS=0.37/1.00 (B-L1)

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.

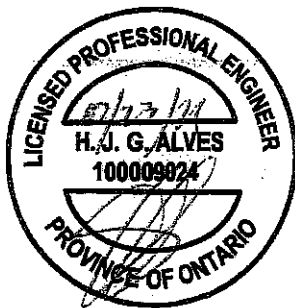
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

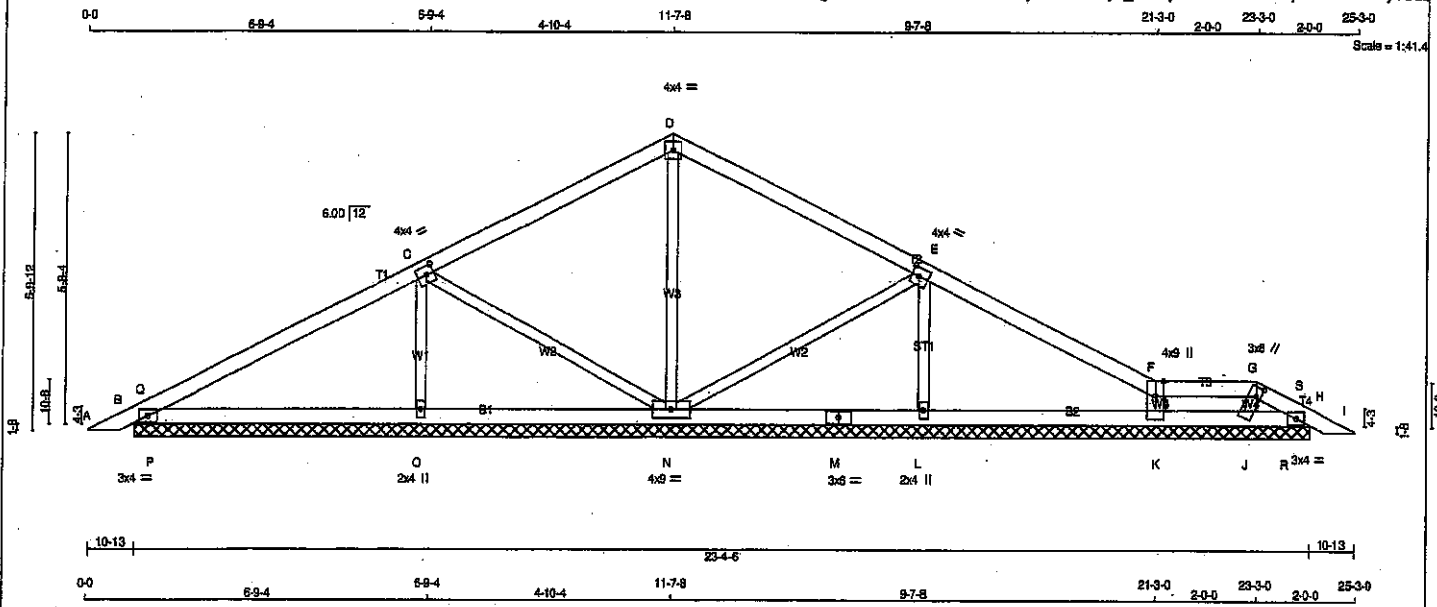
JSI GRIP= 0.47 (E) (INPUT = 0.90)
JSI METAL= 0.09 (K) (INPUT = 1.00)



Structural component only
DWG# T-2124018

JOB NAME 418363	TRUSS NAME PB52	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:32:55 2021 Page 1
ID:el87gKQ71H6SRnOId2DVSzKFyO-YTJXrY0_ISfoxy?90lwPNOK8BX[6x72UM12RyvSds



TOTAL WEIGHT = 76 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
B - M	2x4	DRY	No.2
M - H	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

J	T	TYPE	PLATES	W	LEN	Y	X
B		TMB1-I	MT20	3.0	4.0		
C		TMWW-t	MT20	4.0	4.0	2.00	1.75
D		TTW-p	MT20	4.0	4.0		
E		TMWW-t	MT20	4.0	4.0	2.00	1.75
F		G, J, K					
F							
F		TTBMW1+*p	MT20	4.0	9.0	Edge	
G		TTBW1+*h	MT20	3.0	8.0	2.25	1.00
H		TMB1-I	MT20	3.0	4.0		
L		BMW1+w	MT20	2.0	4.0		
M		BS-I	MT20	3.0	6.0		
N		BMWWW1-t	MT20	4.0	9.0		
O		BMW1+w	MT20	2.0	4.0		

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

NOTES:

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	383	0	383	0	0	23-4-6 (13-11234-6	
L	577	0	577	0	0	23-4-6 (13-11234-6	
J	66	0	66	0	0	23-4-6 (13-11234-6	
K	358	0	358	0	0	23-4-6 (13-11234-6	
N	516	0	516	0	0	23-4-6 (13-11234-6	
O	608	0	608	0	0	23-4-6 (13-11234-6	
H	193	0	193	0	0	23-4-6 (13-11234-6	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	289	188 / 0	0 / 0	0 / 0	0 / 0	81 / 0	0 / 0
L	408	289 / 0	0 / 0	0 / 0	0 / 0	139 / 0	0 / 0
J	67	49 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
K	253	188 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0
N	366	239 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0
O	431	280 / 0	0 / 0	0 / 0	0 / 0	151 / 0	0 / 0
H	134	100 / 0	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, L, J, K, N, O, H

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	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 / 16	-91.8 -91.8 0.05 (1)	10.00	L-E	-480 / 0	0.09 (1)	
B-Q	-97 / 0	-91.8 -91.8 0.06 (1)	8.25	J-G	-59 / 0	0.01 (1)	
Q-C	-112 / 0	-91.8 -91.8 0.41 (1)	6.25	K-F	-268 / 0	0.04 (1)	
C-D	-35 / 0	-91.8 -91.8 0.41 (1)	8.25	N-D	-338 / 0	0.16 (1)	
D-E	-32 / 0	-91.8 -91.8 0.36 (1)	6.25	N-E	-78 / 0	0.04 (1)	
E-F	-58 / 0	-91.8 -91.8 0.36 (1)	6.25	O-C	-460 / 0	0.09 (1)	
F-G	-24 / 0	-91.8 -91.8 0.06 (1)	6.25	C-N	-131 / 0	0.07 (1)	
G-S	-48 / 0	-91.8 -91.8 0.01 (1)	6.25	P-Q	-285 / 15	0.00 (1)	
S-H	-87 / 0	-91.8 -91.8 0.04 (1)	6.25	R-S	0 / 28	0.00 (1)	
H-I	0 / 16	-91.8 -91.8 0.05 (1)	10.00				
B-P	0 / 121	-18.5 -18.5 0.18 (1)	10.00				
P-O	0 / 121	-18.5 -18.5 0.19 (1)	10.00				
O-N	0 / 121	-18.5 -18.5 0.14 (1)	10.00				
N-M	0 / 75	-18.5 -18.5 0.10 (4)	10.00				
M-L	0 / 75	-18.5 -18.5 0.10 (4)	10.00				
L-K	0 / 75	-18.5 -18.5 0.10 (4)	10.00				
K-J	0 / 24	-18.5 -18.5 0.06 (4)	10.00				
J-I	0 / 41	-18.5 -18.5 0.01 (1)	10.00				
R-H	0 / 41	-18.5 -18.5 0.01 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.41/1.00 (C-Q:1), BC=0.19/1.00 (O-P:1), WB=0.18/1.00 (D-N:1), SSI=0.23/1.00 (B-P:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 758 1987 1873

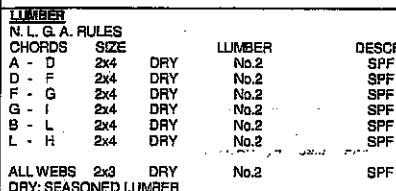
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.75 (G) (INPUT = 0.90)
JSI METAL= 0.10 (D) (INPUT = 1.00)



Structural component only
DWG# T-2124019



PLATES (table is in inches)					
J	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	BNW1-I	MT20	4.0	4.0	2.00 1.75
D	TTW-I	MT20	4.0	4.0	
E	TMBW1-I	MT20	4.0	4.0	2.00 1.75
F	TTW-m	MT20	4.0	6.0	
G	TTW-m	MT20	4.0	4.0	
H	TMB-I	MT20	3.0	4.0	
I	BNW1-I	MT20	4.0	4.0	
K	BNW1-I	MT20	4.0	4.0	
L	BS-I	MT20	3.0	6.0	
M	BNW1-I	MT20	4.0	9.0	
N	BNW1-w	MT20	2.0	4.0	

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	RECORD
GROSS REACTION		GROSS REACTION				BRG	IN-SX
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	384	0	384	0	0	23-48	94-103-4-6
K	584	0	584	0	0	23-48	94-103-4-6
J	414	0	414	0	0	23-48	94-103-4-6
M	513	0	513	0	0	23-48	94-103-4-6
N	610	0	610	0	0	23-48	94-103-4-6
H	246	0	246	0	0	23-48	94-103-4-6

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	270	188 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
B	399	263 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0
J	293	169 / 0	0 / 0	0 / 0	0 / 0	104 / 0	0 / 0
M	365	236 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0
N	432	281 / 0	0 / 0	0 / 0	0 / 0	151 / 0	0 / 0
H	172	125 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBB			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM-TO			FR-TO		
A-B	0/18	-91.8	-91.8 0.05 (1)	10.00	K-E	-425 / 0	0.08 (1)
B-P	-99 / 0	-91.8	-91.8 0.05 (1)	8.25	J-G	-188 / 0	0.03 (1)
P-C	-114 / 0	-91.8	-91.8 0.41 (1)	8.25	M-D	-345 / 0	0.17 (1)
C-D	-39 / 0	-91.8	-91.8 0.41 (1)	8.25	N-C	-462 / 0	0.09 (1)
D-E	-32 / 0	-91.8	-91.8 0.29 (1)	8.25	C-M	-128 / 0	0.07 (1)
E-F	-28 / 0	-91.8	-91.8 0.29 (1)	8.25	M-E	-53 / 0	0.03 (1)
F-G	-9 / 0	-91.8	-91.8 0.05 (1)	10.00	K-F	-97 / 0	0.03 (1)
G-R	-27 / 0	-91.8	-91.8 0.10 (1)	8.25	F-J	-171 / 0	0.03 (1)
R-H	-12 / 0	-91.8	-91.8 0.02 (1)	8.25	Q-P	-284 / 15	0.00 (1)
H-I	0 / 16	-91.8	-91.8 0.05 (1)	10.00	Q-R	-171 / 0	0.00 (1)
B-O	0 / 122	-18.5	-18.5 0.18 (1)	10.00			
O-N	0 / 122	-18.5	-18.5 0.19 (1)	10.00			
N-M	0 / 122	-18.5	-18.5 0.14 (1)	10.00			
M-L	0 / 58	-18.5	-18.5 0.09 (4)	10.00			
L-K	0 / 58	-18.5	-18.5 0.09 (4)	10.00			
K-J	0 / 140	-18.5	-18.5 0.09 (4)	10.00			
J-Q	0 / 22	-18.5	-18.5 0.09 (1)	10.00			
Q-H	0 / 22	-18.5	-18.5 0.09 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.41/1.00 (C-P:1), BC=0.19/1.00 (N-O:1),
WB=0.17/1.00 (D-M:1), SSI=0.23/1.00 (B-O: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	850	371	1747	788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg

JSI GRIP= 0.59 (G) (INPUT = 0.90)
JSI METAL= 0.11 (D) (INPUT = 1.00)

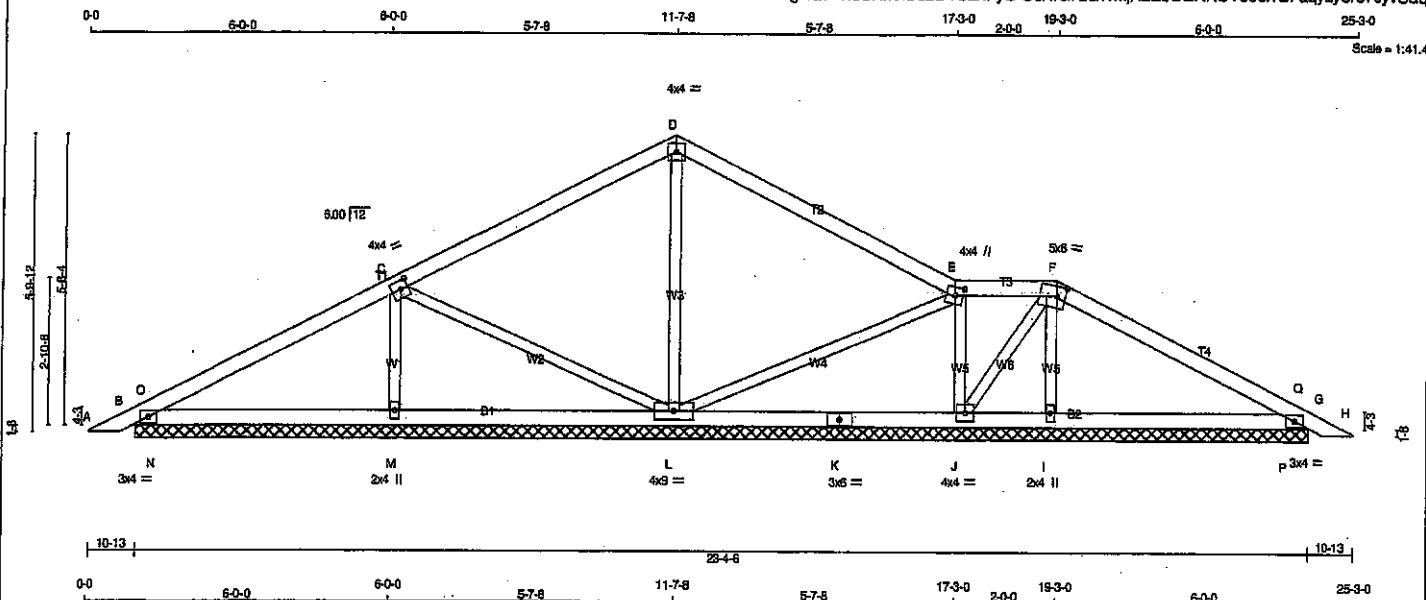


Structural component only
DWG# T-2124020

JOB NAME 418363	TRUSS NAME PB54	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:32:57 2021 Page 1
ID:8187gKQ71H6SRnOIdD2DVSzKFyO-UeRIG7zGWMJN2E6OGRKOVc5el?BfacyLy3r87JyvSdq



TOTAL WEIGHT = 80 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
B - K	2x4	DRY	No.2
K - S	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TMBW1-t	MT20	4.0	4.0	2.00	1.75
D	TTW-p	MT20	4.0	4.0		
E	TTWW+m	MT20	4.0	4.0	2.00	1.75
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMB1-I	MT20	3.0	4.0		
I	BMW1+w	MT20	2.0	4.0		
J	BMWW1-t	MT20	4.0	4.0		
K	BS-4	MT20	3.0	6.0		
L	BMWWW1-t	MT20	4.0	9.0		
M	BMW1+w	MT20	2.0	4.0		

NOTES-

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECD BRG
B	348	0	23-4-6 (9-4-1023-4-6)	
L	554	0	23-4-6 (9-4-1023-4-6)	
J	311	0	23-4-6 (9-4-1023-4-6)	
M	469	0	23-4-6 (9-4-1023-4-6)	
G	395	0	23-4-6 (9-4-1023-4-6)	

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS
B	244	171/0
L	394	249/0
I	221	140/0
J	331	221/0
M	461	305/0
G	278	195/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. UNBRACED LENGTH (LC)	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO				FR-TO		
A-B	0/16	-91.8	-91.8 0.05 (1)	L-D	-409/0	0.20 (1)
B-O	-124/0	-91.8	-91.8 0.04 (4)	I-F	-149/0	0.03 (1)
O-C	-104/0	-91.8	-91.8 0.42 (1)	J-E	-365/0	0.06 (1)
C-D	-77/0	-91.8	-91.8 0.42 (1)	L-E	-20/0	0.01 (1)
D-E	-52/0	-91.8	-91.8 0.50 (1)	M-C	-520/0	0.09 (1)
E-F	-49/0	-91.8	-91.8 0.05 (1)	C-L	-79/0	0.05 (1)
F-Q	-137/0	-91.8	-91.8 0.29 (1)	J-F	-102/0	0.02 (1)
Q-G	-43/0	-91.8	-91.8 0.10 (1)	N-O	-189/17	0.00 (1)
G-H	0/16	-91.8	-91.8 0.05 (1)	P-Q	-423/0	0.00 (1)
B-N	0/118	-18.5	-18.5 0.13 (1)			
N-M	0/118	-18.5	-18.5 0.14 (1)			
M-L	0/118	-18.5	-18.5 0.13 (4)			
L-K	0/64	-18.5	-18.5 0.13 (4)			
K-J	0/64	-18.5	-18.5 0.13 (4)			
J-I	0/110	-18.5	-18.5 0.16 (1)			
I-P	0/116	-18.5	-18.5 0.25 (1)			
P-G	0/116	-18.5	-18.5 0.25 (1)			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

CSI: TC=0.50/1.00 (D-E-1), BC=0.25/1.00 (I-P-1), WB=0.20/1.00 (D-L-1), SSI=0.32/1.00 (G-P-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

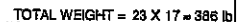
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (E) (INPUT = 0.90)

JSI METAL= 0.18 (K) (INPUT = 1.00)



Structural component only
DWG# T-2124021



Structural component only
DWG# T-2124012

JOB NAME 418361	TRUSS NAME J2	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
--------------------	------------------	---------------	----------	------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Thu Jul 22 16:59:38 2021 Page 1
ID:NxOGIYRcZlvpB_E9rQcwHDzcyyp-wide9dDD44lpqpaln2NP34iuB?F8DcDDST3N6LvvU?J

Scale = 1:33.2

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQ'D BRG			
F	502	502	0	5-8			
D	127	127	0	1-8			
E	254	254	0	1-8			

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

UNFACTORED REACTIONS							
JT	1ST CASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	353	245 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0
D	87	71 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
E	182	106 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
R-B	-238 / 0	0.0	0.0	0.02 (1)	C-E	-278 / 0	0.11 (1)
A-B	0 / 35	-91.8	-91.8	0.12 (1)	F-C	-285 / 0	0.10 (1)
B-C	0 / 22	-91.8	-91.8	0.18 (1)			
C-D	-20 / 0	-91.8	-91.8	0.14 (1)			
F-E	0 / 202	-18.5	-18.5	0.26 (4)			

TOTAL WEIGHT = 3 X 26 = 83 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/848 (0.10")

CSI: TC=0.18/1.00 (B-C:1), BC=0.28/1.00 (E-F:4), WB=0.11/1.00 (C-E:1), SS=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (F) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)

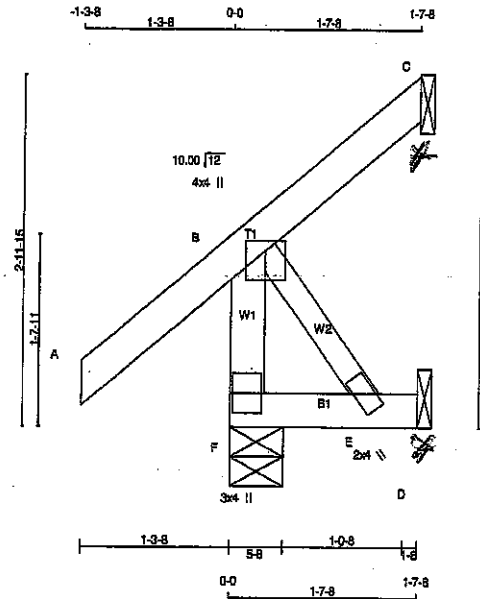
Structural component only
DWG# T-2123942

JOB NAME 418361	TRUSS NAME J4	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 15:59:40 2021 Page 1
ID:Nx0GIYRcZvpB_E9rQowHDzoyp-s4iOaJEtchYW35jhuTQt9VoFyp?RhXSWwnYUBEyvU?H

Scale = 1:18.0



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
E	BMVW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	271	0	271	0	0	5-8	5-8
C	20	0	20	0	1-8	1-8	1-8
D	15	0	17	0	1-8	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

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	188	143/0	0/0	0/0	0/0	45/0	0/0
C	14	11/-30	0/0	0/0	0/0	3/0	0/0
D	12	0/0	0/0	0/0	0/0	12/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX. FACTORED	MAX. FACTORED
FR-TO		FROM	TO	FR-TO		FROM	TO
F-B	-256/0	0.0	0.0 0.03 (1)	7.81	B-E	0/0	0.00 (1)
A-B	0/41	-91.8	-91.8 0.13 (1)	10.00			
B-C	-35/0	-91.8	-91.8 0.12 (1)	6.25			
F-E	0/0	-18.5	-18.5 0.01 (4)	10.00			
E-D	0/0	-18.5	-18.5 0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (0.16")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.16")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.13/1.00 (A-B-1), BC=0.01/1.00 (E-F-4), WB=0.00/1.00 (B-E-1), SS=0.08/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

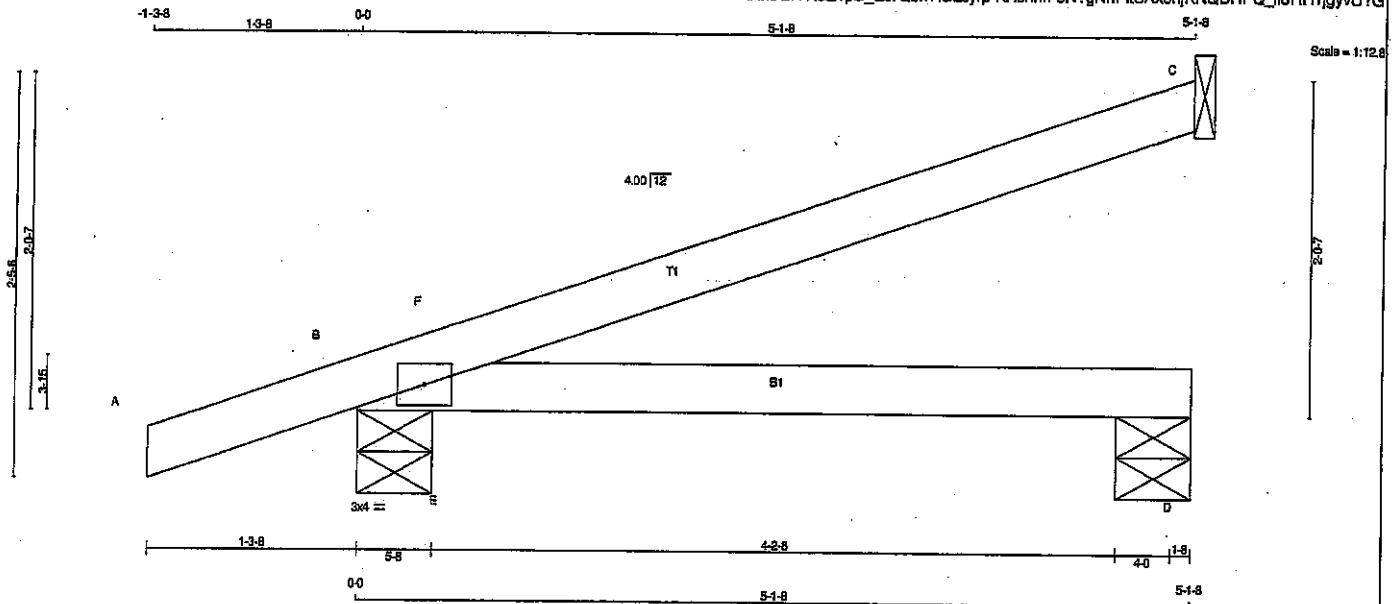
JSI GRIP = 0.19 (B) (INPUT = 0.50)
JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123944

JOB NAME 418361	TRUSS NAME J5	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 9.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 15:59:41 2021 Page 1
ID:Nx0GIYRcZvpB_E9rQowHDzcypr-KHJnnf5N?gNhfR5Ax8hJKNQDHPQ_jf8RH1jgyvU?G



TOTAL WEIGHT = 3 X 14 = 41 lb

LUMBER

N.L.G.A. RULES

CHORDS SIZE

A - C 2x4 DRY

B - D 2x4 DRY

LUMBER

No.2

No.2

DESCR.

SPF

SPF

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT TYPE

B TMB14

PLATES

MT20

W

3.0

LEN

4.0

Y

X

NOTES: (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
C	205	0	205	0	0	1-8	1-8	
B	405	0	405	0	0	5-8	5-8	
D	78	0	78	0	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SCIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
C	142	110/0	0/0	0/0	0/0	32/0	0/0
B	284	200/0	0/0	0/0	0/0	85/0	0/0
D	58	21/0	0/0	0/0	0/0	37/0	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)

MEMB.	CHORDS		FACTORED		W E B S		MAX. FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO					FR-TO			
A-B	0/18	-91.8	-91.8	0.11 (1)	E-F	-257/10	0.00 (1)	
B-F	-17/7	-91.8	-91.8	0.08 (4)				
F-C	0/2	-91.8	-91.8	0.31 (1)				
B-E	0/0	-18.5	-18.5	0.22 (1)				
E-D	0/0	-18.5	-18.5	0.22 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 33.0 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019

- PART 9 OF CBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.19")

CALCULATED VERT. DEFL. (LL) = L/990 (0.04")

ALLOWABLE DEFL. (TL) = L/360 (0.19")

CALCULATED VERT. DEFL. (TL) = L/728 (0.08")

CSI: TC=0.31/1.00 (C-F:1), BC=0.22/1.00 (D-E:1),

WB=0.00/1.00 (E-F:1), SSI=0.21/1.00 (B-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)

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



Structural component only
DWG# T-2123945

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 15:59:41 2021 Page 1
ID:Nx0GIYRcZlvpE_E9rQcwHDzcyrp-KHJnnfF5N?gNhFtSax6hjKOBIDYQ_jf8RH1jpwU?G



TOTAL WEIGHT = 7 X 11 = 77 lb

DRY: SEASONED LUMBER

NOTES- (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

BUILDING BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
C	163	0	183	0	1-8	1-8
B	350	0	350	0	5-8	5-8
D	64	0	64	0	5-8	5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	113	88 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0
B	245	174 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0
D	48	18 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0

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

BRACING.

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

LOADING

TOTAL LOAD CASES: (4)

GHORDS				WEBB			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
FR-TO	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. LINERAC	MEMB. FR-TO	FORCE (LBS)	MAX. CSI (LC)
A-B	0/18	-91.8	0.11 (1)	10.00	E-F	-175/7	0.00 (1)
B-C	-13/0	-91.8	0.04 (4)	8.25			
C-D	0/2	-91.8	0.20 (1)	10.00			
D-E	0/0	-18.5	0.15 (1)	10.00			
E-D	0/0	-18.5	0.15 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.20/1.00 (C-F:1), BC=0.15/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SSI=0.15/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

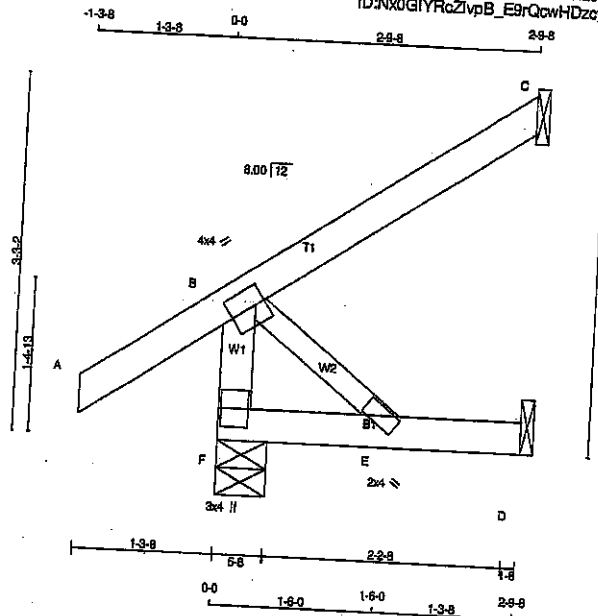
USI GRIP= 0.22 (B) (INPUT = 0.90)
USI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123946

JOB NAME 418362 Tamarack Roof Truss, Burlington	TRUSS NAME J31	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
--	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 16:43:20 2021 Page 1
ID:Nx0GfYRcZlvpB_E9rQcwhDzcytp-973sSAXvbenCKGEnJQGL?L_HyCyZT39OPC68Nv7ML



Scale = 1:12.5

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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-1	MT20	4.0	4.0	2.00	1.00
E BMW-w	MT20	2.0	4.0		
F BMV1+p	MT20	3.0	4.0		

NOTES: (1)
1) Lateral braces to be a minimum of 2x4 SPF #2.

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		
F	280	0	280	0	5-8	5-8
C	128	0	128	0	1-8	1-8
D	28	0	28	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM	LIVE			
F	198	142 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0
C	88	71 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	21	0 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. FORCE (LBS)	VERT. LOAD (LBS)
FR-TO								
F-B	-254 / 0	0.0	0.0	0.03 (1)	7.81	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8	0.13 (5)	10.00			
B-C	0 / 0	-91.8	-91.8	0.12 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.04 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.04 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 11 = 34 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

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

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

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

CSI: TC=0.13/1.00 (A-B-5), BC=0.04/1.00 (E-F-4), WB=0.00/1.00 (B-E-1), SSI=0.09/1.00 (A-B-5)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

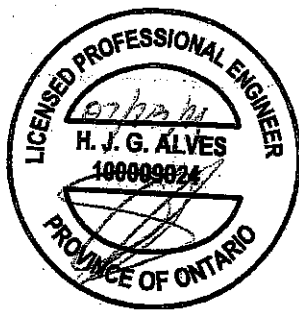
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.15 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



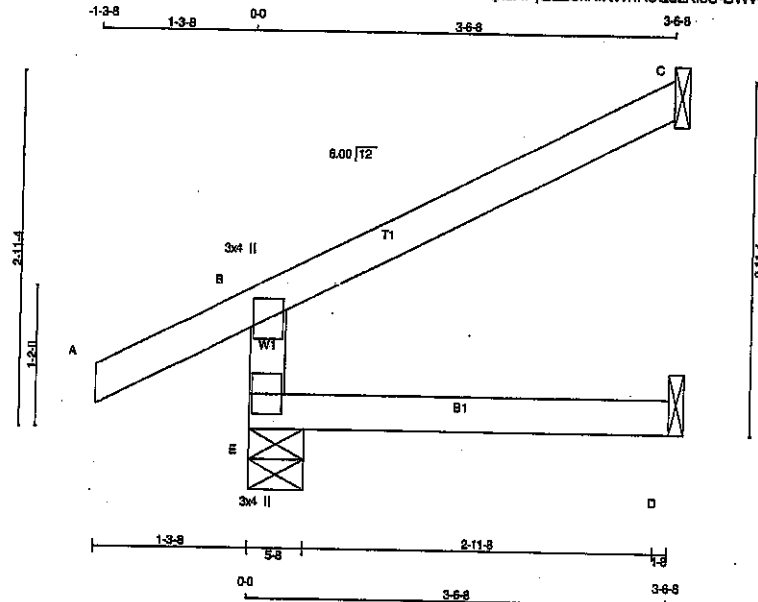
Structural component only
DWG# T-2123985

JOB NAME 418363	TRUSS NAME J50	QUANTITY 3	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:32:50 2021 Page 1
ID:Olgk5APjQaBbkRIRWnRoQszK198-BWWeoju9DqM1832MT1JJWIAshRIJLTIGNDyVSDx

Scale = 1:17.5



LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS							REQ'D
	FACTORED		MAXIMUM FACTORED			INPUT	REQ'D
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	365	0	365	0	0	5-8	5-8
C	122	0	122	0	0	1-8	1-8
D	28	0	31	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	255	183 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
C	84	68 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0
D	22	0 / 0	0 / 0	0 / 0	0 / 0	22 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL FITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
E-B	-327 / 0	0.0	0.0	0.04 (4)	7.81		
A-B	0 / 28	-91.8	-91.8	0.13 (5)	10.00		
B-C	-18 / 0	-91.8	-91.8	0.20 (1)	6.25		
E-D	0 / 0	-18.5	-18.5	0.05 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 11 = 33 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2015, ABC 2019
- PART 8 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.9 P.S.F. Q.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.00")

CSI: TC=0.20/1.00 (B-C:1), BC=0.05/1.00 (D-E:4), WB=0.00/1.00 (n=0), SSI=0.14/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PL)		(PL)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (E) (INPUT = 0.80)
JSI METAL= 0.08 (B) (INPUT = 1.00)

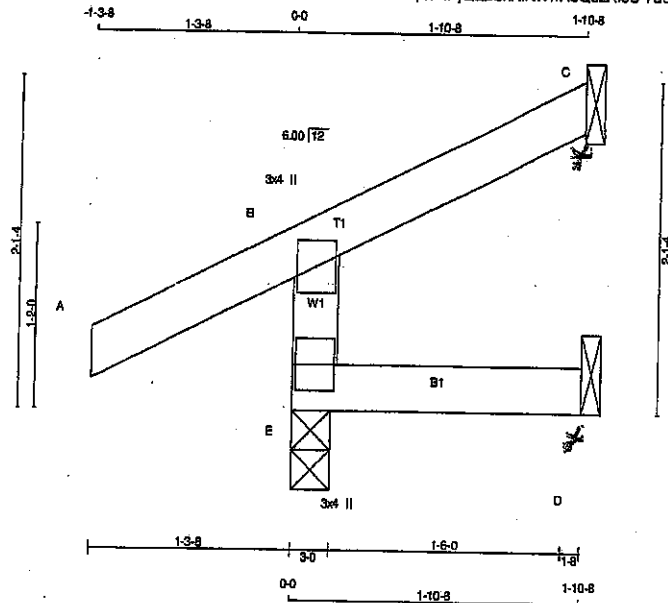


Structural component only
DWG# T-2124013

Structural component only
DWG# T-2124014

JOB NAME 418363	TRUSS NAME J52	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:32:52 2021 Page 1
ID:Oiqk5APjQaBbkRfRWnFoQszK198-7uePCPv7hq44xTDQTukDokOuR_XLvcpon8NR8yvSdv



Scale = 1:13.4

TOTAL WEIGHT = 7 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
E - B	2x4 DRY	No.2
A - C	2x4 DRY	No.2
E - D	2x4 DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES:

(1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG	IN-SX
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	
E	273	0	273	0	0	3-0	3-0
C	50	0	50	0	-20	1-8	1-8
D	8	0	17	0	-2	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

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	190	143/0	0/0	0/0	0/0	47/0	0/0
C	35	27/-17	0/0	0/0	0/0	7/0	0/0
D	8	0/-8	0/0	0/0	0/0	12/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 6.25 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	VERT. LOAD (LBS)	MAX. CSI (LC)	MAX. FORCE (LBS)	MAX. CSI (LC)	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO								
E-B	-247/0	0.0	0.0	0.04 (5)	7.81			
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-16/0	-91.8	-91.8	0.08 (1)	8.25			
E-D	0/0	-18.5	-18.5	0.04 (5)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5), WB=0.00/1.00 (r/a:0), SSI=0.08/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	850	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

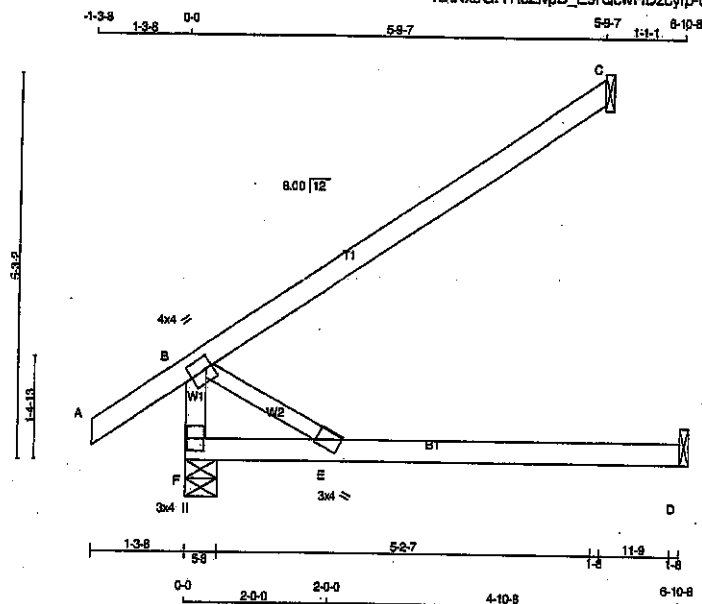
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124015

JOB NAME 418361	TRUSS NAME C1	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 15:58:31 2021 Page 1					
ID:Nx0GIYRcZlvpB_E9rQcwHDzcyrp-dMI?hE7qkwQoUjXys4lIHcwodBsY4SDBrtsVMFyvU?Q					



Scale = 1/2" = 1'-0"

LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	
CHORDS			
F - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - D	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-1	MT20	4.0	4.0	2.00 1.00
E	BMV-w	MT20	3.0	4.0	
F	BMV1-p	MT20	3.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	JT	GROSS REACTION	BRG	BRG	IN-SX	IN-SX
F	VERT	DOWN	HORZ	UPLIFT	IN-SX		
F	455	0	455	0	5-8	5-8	
C	265	0	265	0	1-8	1-8	
D	64	0	71	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	320	218 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0
C	183	148 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
D	51	0 / 0	0 / 0	0 / 0	0 / 0	51 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
F-B	-391 / 0	0.0	0.0 0.04 (1)	B-E	0 / 0	0.00 (1)	
A-B	0 / 35	-91.8	-91.8 0.12 (1)				
B-C	0 / 0	-91.8	-91.8 0.52 (1)				
F-E	0 / 0	-18.5	-18.5 0.21 (4)				
E-D	0 / 0	-18.5	-18.5 0.26 (4)				

TOTAL WEIGHT = 21 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.23")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.23")
CALCULATED VERT. DEFL. (TL) = L/819 (0.10")

CSI: TC=0.52/1.00 (B-C:1), BC=0.26/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SSI=0.17/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PL)	(PL)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

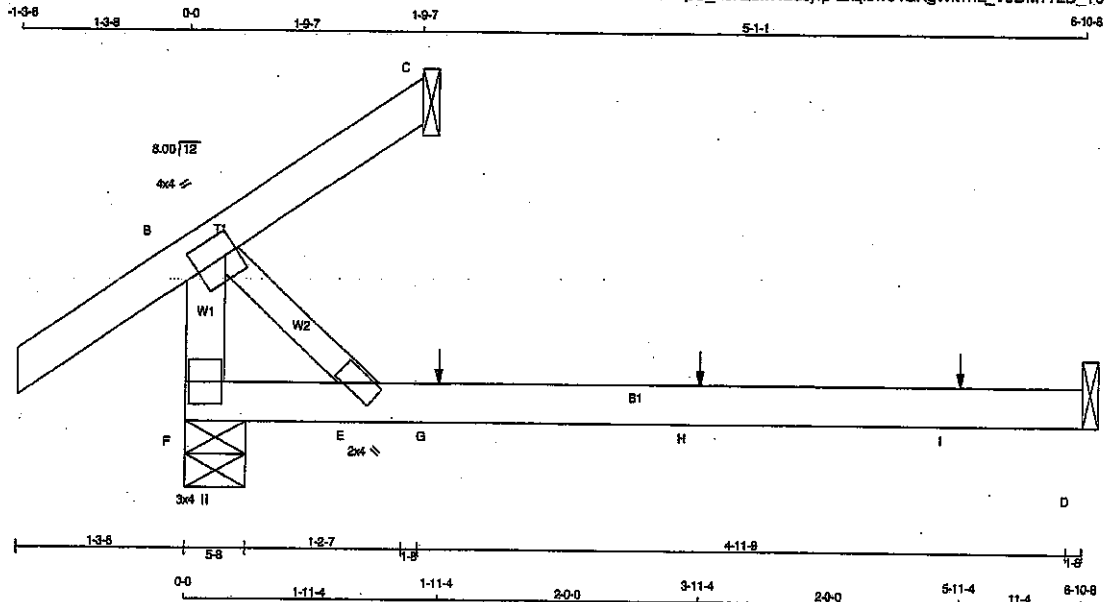
JSI GRIP= 0.24 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123933

JOB NAME 418361	TRUSS NAME C3	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 15:59:33 2021 Page 1
ID:Nx0GIYRcZvpB_E9rQawHDzoyr-ZkqI6w94GXgWkthL_VoDM172D_Y0YmJLJBLcR8yvU?0



Scale: 3/4"=1'

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
F - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - D	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-1	MT20	4.0	4.0	2.00 1.00
E	BMVW-w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT REQD BRG
F	320	320	5-8
C	34	34	1-8
D	64	71	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS			
JT	1ST CASE	MAX MIN. COMPONENT REACTIONS	
F	227	143/0	0/0
C	23	18/0	0/0
D	51	0/0	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

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
F-B	-256/0	0.0	0.03 (1)
A-B	0/35	-91.8	0.13 (1)
B-C	-27/0	-91.8	0.10 (1)
F-E	0/0	-18.5	0.18 (4)
E-G	0/0	-18.5	0.25 (4)
G-H	0/0	-18.5	0.25 (4)
H-I	0/0	-18.5	0.25 (4)
I-D	0/0	-18.5	0.25 (4)

SPECIFIED CONCENTRATED LOADS (LBS)			
JT	LOC.	LC1	MAX. MAX.
G	1-11-4	1	1
H	3-11-4	1	1
I	5-11-4	1	1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/819 (0.10")

CS: TC=0.13/1.00 (A-B:1), BC=0.25/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

DOL LUMBER=0.93 NAIL=0.93 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 768 1887 1873

PLATE PLACEMENT TOL = 0.250 inches

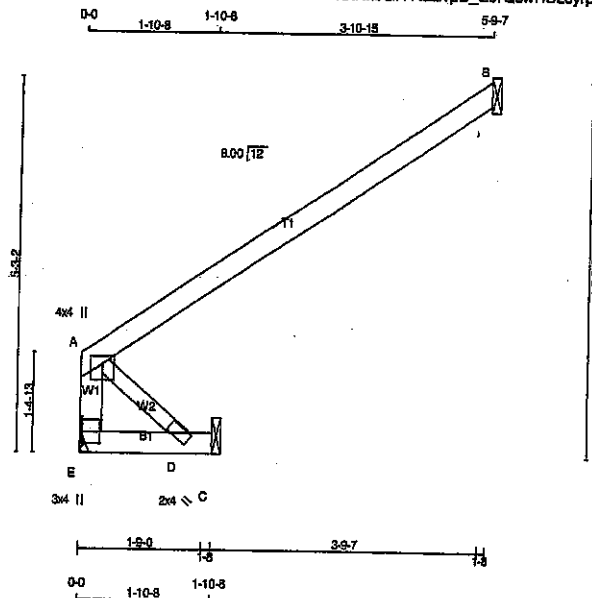
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.17 (B) (INPUT = 0.90)
JSI METAL=0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123935

JOB NAME 418361	TRUSS NAME C4	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			



LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - A	2x4	DRY	No.2	SPF
A - B	2x4	DRY	No.2	SPF
E - C	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMVW+p	MT20	2.0	4.0		
E	BMVW+p	MT20	3.0	4.0		

NOTES: (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
E	283	283	0	0
B	265	265	0	0
C	17	18	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	197	148/0	0/0	0/0	0/0	0/0	49/0	0/0
B	183	148/0	0/0	0/0	0/0	0/0	35/0	0/0
C	14	0/0	0/0	0/0	0/0	0/0	14/0	0/0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)
FR-TO	E-A	-265/0	0.0	0.0	0.03 (1)	FR-TO	0/0	0.00 (1)
A-B		0/0	-91.8	-91.8	0.52 (1)	A-D		
E-D		0/0	-18.5	-18.5	0.02 (4)			
D-C		0/0	-18.5	-18.5	0.01 (4)			

TOTAL WEIGHT = 13 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 098-14
- TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19')
CALCULATED VERT. DEFL.(LL) = L/999 (0.00')
ALLOWABLE DEFL.(TL) = L/360 (0.19')
CALCULATED VERT. DEFL.(TL) = L/999 (0.00')

CSI: TC=0.52/1.00 (A-B:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (A-D:1), SS=0.17/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

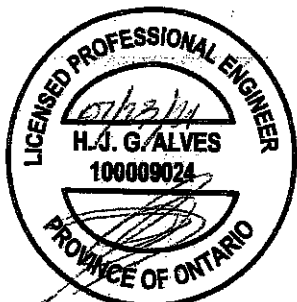
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PL)	(PL)
MT20	850	371	1747
		788	1987

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.18 (A) (INPUT = 0.90)
JSI METAL = 0.05 (A) (INPUT = 1.00)

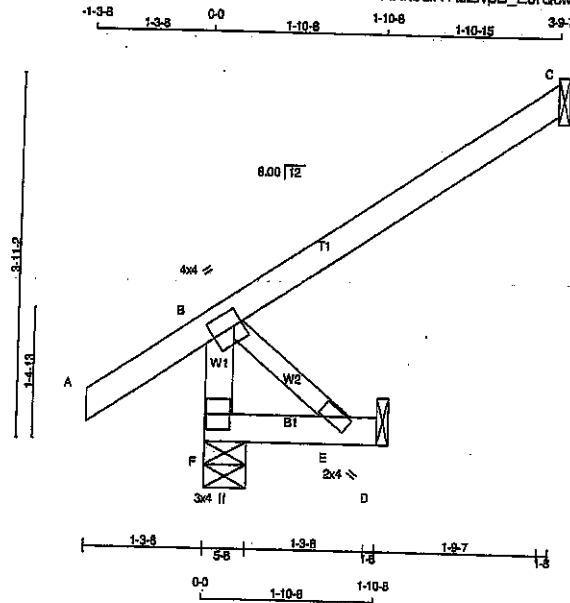


Structural component only
DWG# T-2123936

JOB NAME 418361	TRUSS NAME C5	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	-------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Thu Jul 22 15:59:34 2021 Page 1
ID:Nx0GIYFcZivpB_E9rQowHDzcytp-2xN7JFAH1roNLAGXXCJSvEYCYOyyHpzdXr5AzyvU?N



Scale = 1:22.5

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
F - B	2x4	DRY No.2	SPF
A - C	2x4	DRY No.2	SPF
F - D	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2
DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	4.0	4.0	2.00	1.00
E	BMVW-w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES: (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	317	317	5-8	5-8
C	174	174	1-8	1-8
D	17	19	1-8	1-8

SEE MTEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	220	167 / 0	0 / 0	0 / 0	53 / 0	0 / 0
C	120	97 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	LC2 MAX	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO				FR-TO		
A-B	-300 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8	0.13 (5)	10.00			
B-C	0 / 0	-91.8	-91.8	0.22 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.02 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 12 = 24 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2015, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/899$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/899$ (0.00")

CSI: TC=0.22/1.00 (B-C:1), SC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SSI=0.11/1.00 (B-C:1)

DCL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(FL)	(FL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.19 (B) (INPUT = 0.80)
JSI METAL = 0.08 (B) (INPUT = 1.00)



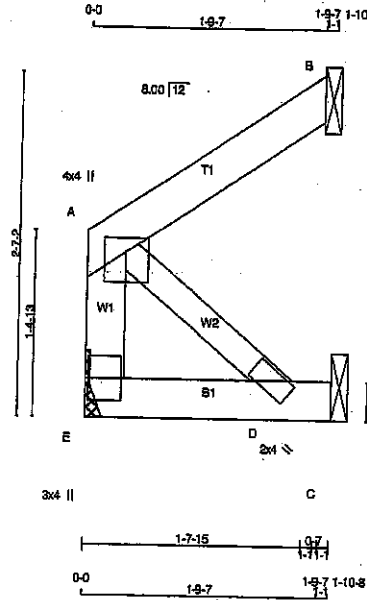
Structural component only
DWG# T-2123937

JOB NAME 418361	TRUSS NAME C6	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	-------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 15:59:35 2021 Page 1
ID: Nx0GIYRcZvpB_E9rQowHDzcytp-W7xVWbAKo9wEzKrf5wqhSS4Q0oHB0GDmmVqjV0yvU?M

Scale: 3/4"=1'



LUMBER	N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - A	2x4	DRY	No.2	SPF	
A - B	2x4	DRY	No.2	SPF	
E - C	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER:					

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV+w	MT20	2.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES- (1)
1) Lateral braces to be a minimum of 2x4 SPF #2.

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	99	0	99	0	MECHANICAL	
B	82	0	82	0	1-8	1-8
C	17	0	19	0	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	COMBINED	70	48/0	0/0	0/0	25/0	0/0
B		56	46/0	0/0	0/0	11/0	0/0
C		14	0/0	0/0	0/0	14/0	0/0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. UNBRACED LENGTH		MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)		
FR-TO		FROM TO	CSI (LC)		FR-TO		CSI (LC)		
E-A	-82/0	0.0	0.0 (1)	7.81					
A-B	0/0	-91.8	-91.8 (1)	10.00	A-D	0/0	0.00 (1)		
E-D	0/0	-18.5	-18.5 (4)	10.00					
D-C	0/0	-18.5	-18.5 (4)	10.00					

TOTAL WEIGHT = 2 X 7 = 14 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015.

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-14
- TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.05/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (A-D:1), SS=0.05/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 798 1997 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.05 (A) (INPUT = 0.90)
JSI METAL = 0.02 (A) (INPUT = 1.00)

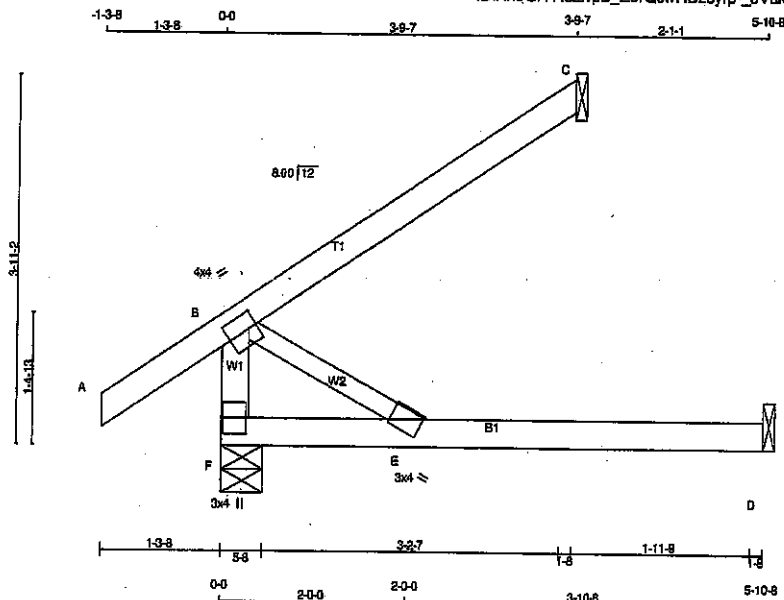


Structural component only
DWG# T-2123938

JOB NAME 418361	TRUSS NAME C7	QUANTITY 1	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 15:58:38 2021 Page 1
ID:Nx0GIYRcZlvpB_E9rQowHDzcyrp_JVukxByZS25bUQwfdLw_fdX2CboljSw79aG2TyvU7L



Scale = 1:22.5

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
F - B	2x4 DRY	No.2
A - C	2x4 DRY	No.2
F - D	2x4 DRY	No.2

ALL WEBS 2x3 DRY No.2
DRY: SEASONED LUMBER

DESCR.
SPF
SPF
SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	4.0	4.0	2.00	1.00
E	BMW-w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	VERT	HORIZ	MAXIMUM FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION HORIZ	INPUT BRG IN-SX	REQD BRG IN-SX
F	354	0	354	0	5-8	5-8
C	174	0	174	0	1-8	1-8
D	54	0	51	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	250	167/0	0/0	0/0	0/0	83/0	0/0
C	120	97/0	0/0	0/0	0/0	23/0	0/0
D	43	0/0	0/0	0/0	0/0	43/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
F-B	-300/0	0.0	0.0 0.03 (1)	B-E	0/0	0.00 (1)	
A-B	0/35	-91.8	-91.8 0.12 (1)				
B-C	0/0	-91.8	-91.8 0.22 (1)				
F-E	0/0	-18.5	-18.5 0.17 (4)				
E-D	0/0	-18.5	-18.5 0.19 (4)				

TOTAL WEIGHT = 17 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CS1: TC=0.22/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.11/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	850 371 1747 788 1987 1873	MAX MIN MAX MIN MAX MIN

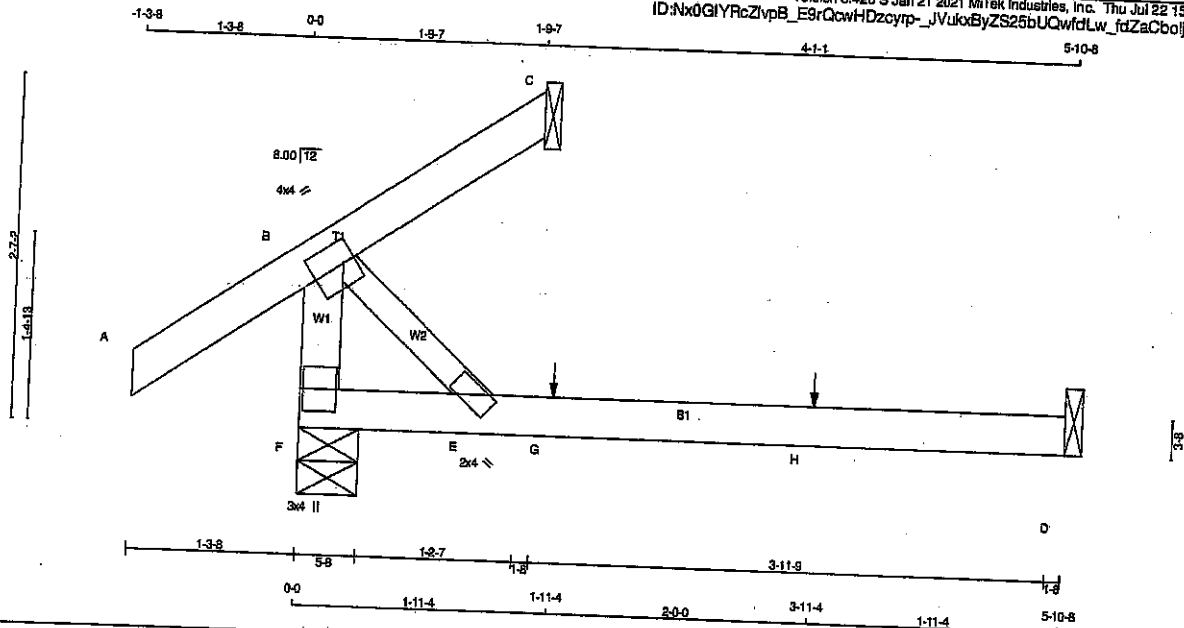
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123939



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
F - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - D	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.00
E	BMVW-w	MT20	2.0	4.0		
F	BMV1-p	MT20	3.0	4.0		

NOTES- (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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
F	311	311	0	5-8
C	34	34	0	1-8
D	54	61	0	1-8

SEE MITEK STANDARD DETAIL B87791H FOR CONNECTION TO JOINT(S) C, D.

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	220	143 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0
C	23	19 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO					FR-TO		
F-B	-256 / 0	0.0	0.0	0.03 (1)	7.81	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8	0.13 (1)	10.00		
B-C	-27 / 0	-91.8	-91.8	0.12 (1)	6.25		
F-E	0 / 0	-18.5	-18.5	0.13 (4)	10.00		
E-G	0 / 0	-18.5	-18.5	0.13 (4)	10.00		
G-H	0 / 0	-18.5	-18.5	0.13 (4)	10.00		
H-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	1	1	---	BACK	VERT	TOTAL	---	C1
H	3-11-4	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

TOTAL WEIGHT = 13 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 6.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 240 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.05")

CSI: TC=0.13/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WS=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

DOL LUMBER=0.98 NAIL=0.98 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

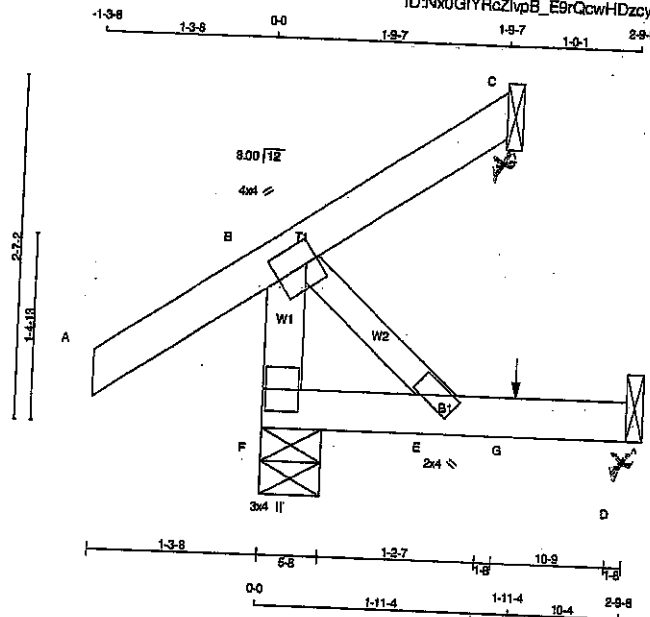
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.16 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2123940



LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER
F - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - D	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.00
E	BMW-w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	282	0	282	0	5-8	5-8
C	34	0	34	0	1-8	1-8
D	26	0	26	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX MIN. COMPONENT REACTIONS		WIND PERM. LIVE	DEAD	SOIL
	SNOW	LIVE	SNOW	LIVE			
F	197	143/0	0/0	0/0	0/0	54/0	0/0
C	23	19/-27	0/0	0/0	0/0	4/0	0/0
D	21	0/0	0/0	0/0	0/0	21/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, C

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		W E B S	
	MAX. FACTORED FORCE (LBS)	FACTORED (PLF)	VERT. LOAD LC1	MAX. MAX. (LC)	MEMB. MAX. FORCE (LBS)	MAX. FACTORED (LC)
FR-TO						
F-B	-256/0	0.0	0.0	0.03 (1)	7.81	0/0
A-B	0/35	-91.8	-91.8	0.14 (5)	10.00	0/0
B-C	-27/0	-91.8	-91.8	0.13 (5)	8.25	0.00 (1)
F-E	0/0	-18.5	-18.5	0.04 (4)	10.00	
E-G	0/0	-18.5	-18.5	0.04 (4)	10.00	
G-D	0/0	-18.5	-18.5	0.04 (4)	10.00	

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	-0	-0	FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 10 = 20 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.14/1.00 (A-B:5), BC=0.04/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (A-B:5)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

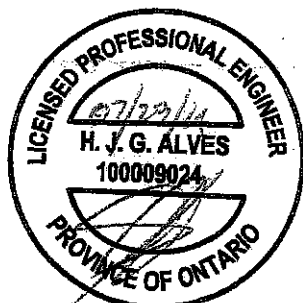
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1997 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

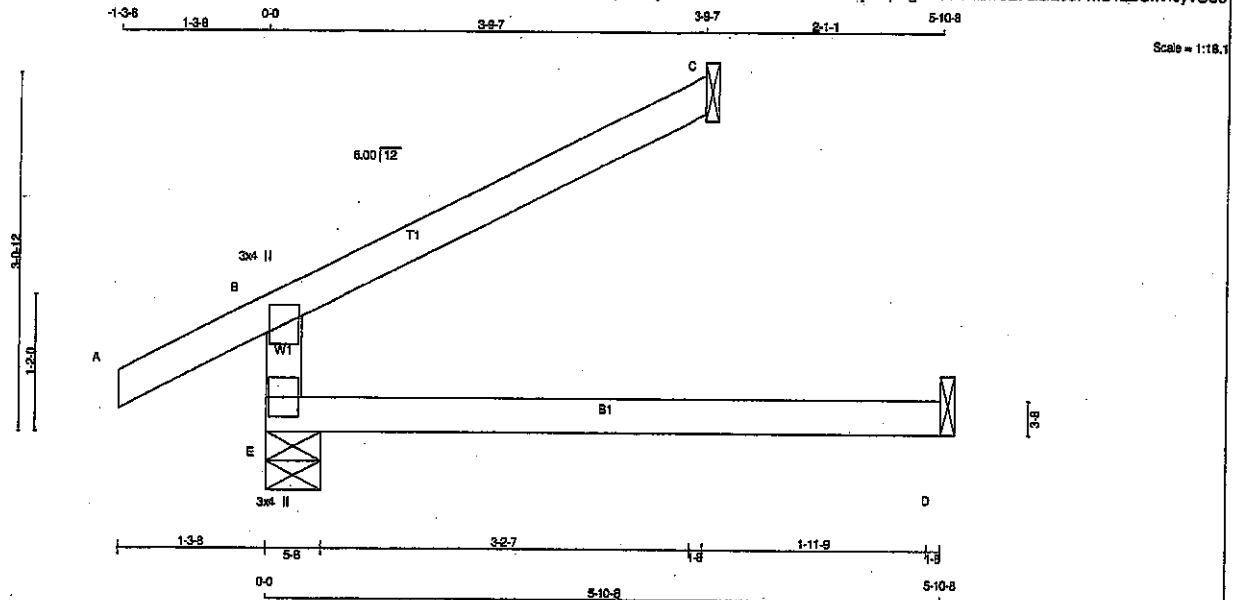


Structural component only
DWG# T-2123982

JOB NAME 418363	TRUSS NAME C50	QUANTITY 4	PLY 1	JOB DESC. GREENPARK HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:32:45 2021 Page 1
ID:Oiqk5APjQaBbkRIRWnRoQszK198-rYjk0qkLgC4cOB4Zw6a7Gcfa96FmS4aBCxVl0yvSe0



TOTAL WEIGHT = 4 X 14 = 57 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
E - B	2x4 DRY	No.2
A - C	2x4 DRY	No.2
E - D	2x4 DRY	No.2

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES-

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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	405	0	405	0	5-8	5-8
C	130	0	130	0	1-8	1-8
D	45	0	50	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

	1ST LOASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	286	190 / 0	0 / 0	0 / 0	0 / 0	98 / 0	0 / 0
C	90	73 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO	
E-B	-342 / 0	0.0	0.0	0.13 (4)	7.61	
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	
B-C	-19 / 0	-91.8	-91.8	0.22 (1)	6.25	
E-D	0 / 0	-19.5	-19.5	0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	39.0	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2015, ABC 2015
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/960$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (V&O), SSI=0.15/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

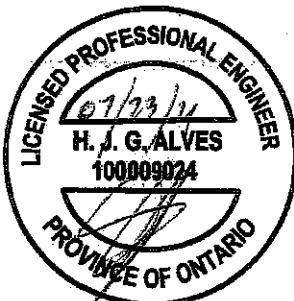
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PL)	(PL)
	MAX	MIN	MAX MIN
MT20	550	371	1747 788 1987 1873

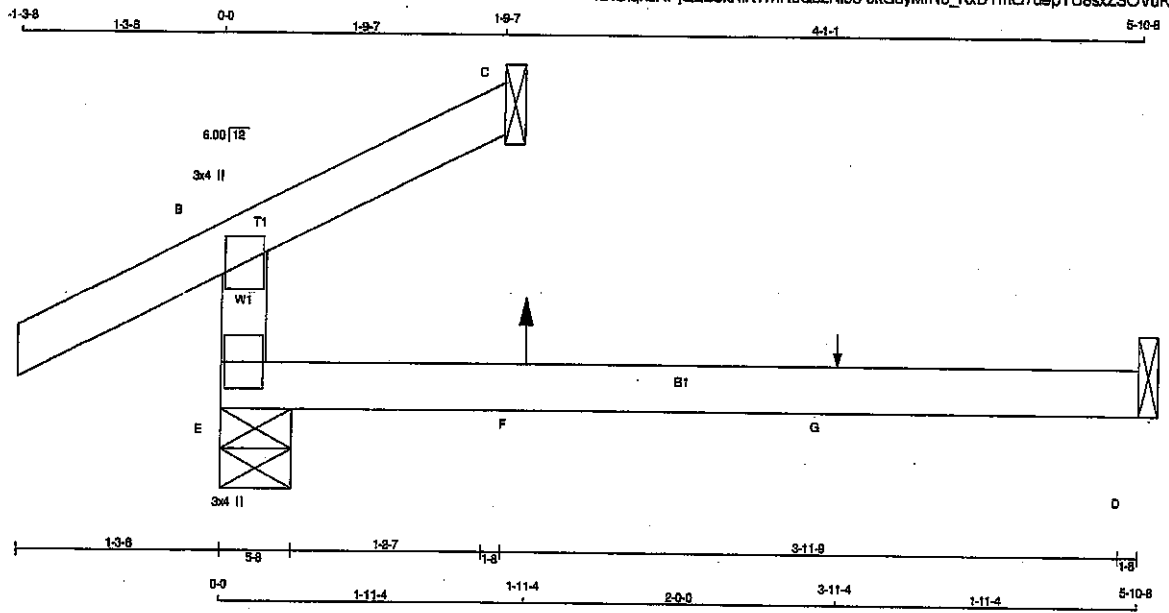
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124007



LUMBER

N. L. G. A. RULES
CHORDS SIZE DRY No.2
E - B 2x4 DRY No.2
A - C 2x4 DRY No.2
E - D 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES: (1)

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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		
E	284	0	284	0	5-8	5-8
C	63	0	63	0	1-8	1-8
D	44	0	52	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

	1ST LOASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	200	137/0	0/0	0/0	0/0	62/0	0/0
C	46	21/0	0/0	0/0	0/0	25/0	0/0
D	35	0/-3	0/0	0/0	0/0	37/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
E-B	-227/0	0.0	0.0	0.11 (4)	7.81		
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00		
B-C	-9/9	-91.8	-91.8	0.08 (4)	10.00		
E-F	0/0	-18.5	-18.5	0.14 (4)	10.00		
F-G	0/0	-18.5	-18.5	0.14 (4)	10.00		
G-D	0/0	-18.5	-18.5	0.14 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	1-11.4	5	1	8	BACK	VERT	TOTAL	—	C1
G	3-11.4	1	1	—	BACK	VERT	TOTAL	—	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4),
WB=0.00/1.00 (N/A:0), SSI=0.09/1.00 (A-B:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENB=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.09 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

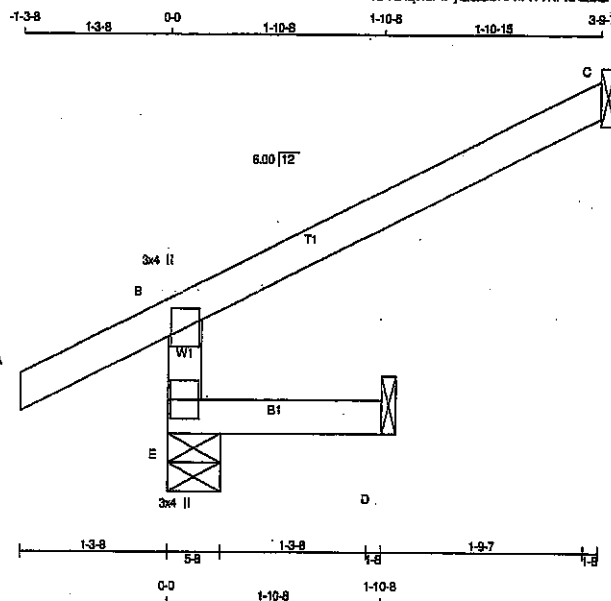


Structural component only
DWG# T-2124008

JOB NAME 418363	TRUSS NAME C52	QUANTITY 4	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:32:47 2021 Page 1

ID:Oick5APjQaBbkRIRWnRoQszKl98-nxqW9ir7lSorlThLg25hh?4zqWELZseWQcnvyvSe



Scale = 1:18.3

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4 DRY	No.2	SPF
A - C	2x4 DRY	No.2	SPF
E - D	2x4 DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES

1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD
E	381	0	361	0	0	5-8	5-8
C	130	0	130	0	0	1-8	1-8
D	16	0	17	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97781H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
E	250	180 / 0
C	80	78 / 0
D	12	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	WEBS
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
E-B	-342 / 0	0.0 0.0 0.01 (4) 7.81
A-B	0 / 28	-91.8 -91.8 0.13 (5) 10.00
B-C	-19 / 0	-91.8 -91.8 0.22 (1) 6.25
E-D	0 / 0	-18.5 -18.5 0.02 (4) 10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 10 = 38 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
DL = 8.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCG 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (A-B:0), SSI=0.15/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

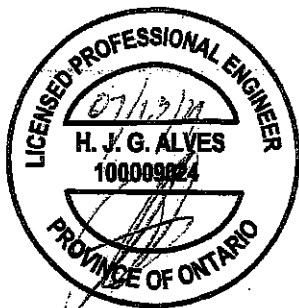
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)

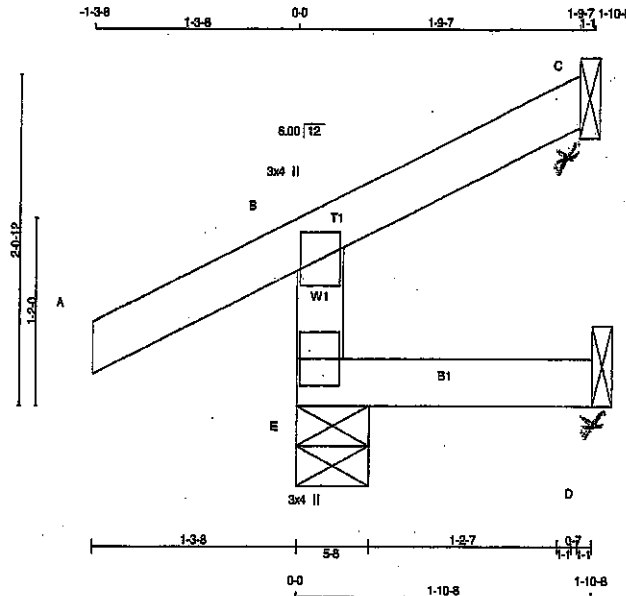


Structural component only
DWG# T-2124009

JOB NAME 418363	TRUSS NAME C53	QUANTITY 6	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
TRUSS DESC.					

Tamareck Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Thu Jul 22 17:32:47 2021 Page 1
ID:Oqk5APjQaBbkRIRWnRoQszK198-nxqW9ir7iSoriLThL925hh1tqBELZseWQonvYvSe



Scale = 1:13.2

TOTAL WEIGHT = 6 X 7 = 42 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
E - B	2x4 DRY	No.2
A - C	2x4 DRY	No.2
E - D	2x4 DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES-

(1) Lateral braces to be a minimum of 2x4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
E	271	0	271	0	5-8	5-8
C	45	0	45	0	1-8	1-8
D	8	0	17	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

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	COMBINED	1ST LOOSE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM	LIVE			
E	188	141/0	0/0	0/0	0/0	0/0	47/0	0/0
C	31	24/-18	0/0	0/0	0/0	0/0	7/0	0/0
D	7	0/-8	0/0	0/0	0/0	0/0	12/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)
FR-TO								
E-B	-244/0	0.0	0.0	0.04 (5)	7.81			
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00			
B-C	-17/0	-91.8	-91.8	0.09 (1)	6.25			
E-D	0/0	-18.5	-18.5	0.04 (5)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
DL = 8.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2018
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = 1/360 (0.19")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.00")
ALLOWABLE DEFL.(TL) = 1/360 (0.19")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),
WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION	(FSI)	(PL)	(PL)
MAX MIN MAX MIN MAX MIN			
MT20	650	371	1747
	789	1887	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

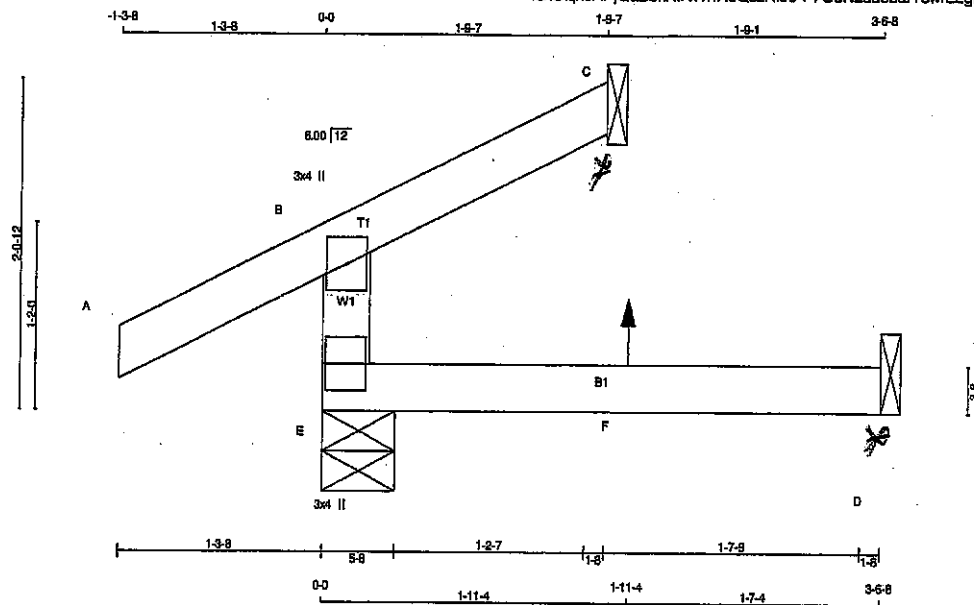
JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124010

JOB NAME 418363	TRUSS NAME C54	QUANTITY 2	PLY 1	JOB DESC. GREENPARK HOMES	DRWG NO.
Tamsack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Thu Jul 22 17:32:48 2021 Page 1
ID:Oiqk5APJQaBbkRIRWnRoQazKl98-F7OuN2sdabafTswfE2gHdvEBDMABzop0tAAAILyvSchz



Scale = 1:19.2

TOTAL WEIGHT = 2 X 9 = 18 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
E - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
E - D	2x4	DRY	No.2

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
E	BMV1+p	MT20	3.0	4.0	

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
E	277	0	277	0	5-8	5-8
C	47	0	47	0	1-8	1-8
D	23	0	32	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

1ST CASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	194	138 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0
C	34	22 / -20	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
D	19	0 / -6	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (9)

MEMB.	CHORDS		FACTORED		MAX. FACTORED	MEMB.	WEBS	
	MAX. FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (LBS)	LC2 MAX (LBS)			MAX. FORCE (LBS)	MAX. FACTORED (LBS)
FR-TO						FR-TO		
E-B	-242 / 0	0.0	0.0	0.04 (5)	7.81			
A-B	0 / 28	-91.8	-91.8	0.13 (5)	10.00			
B-C	-16 / 0	-91.8	-91.8	0.09 (8)	6.25			
E-F	0 / 0	-18.5	-18.5	0.05 (4)	10.00			
F-D	0 / 0	-18.5	-18.5	0.05 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	1-11-4	5	1	8	FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	38.0	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 0.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.13/1.00 (A-B-5), BC=0.05/1.00 (D-E-4),
WB=0.00/1.00 (n/a), SSI=0.10/1.00 (A-B-5)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

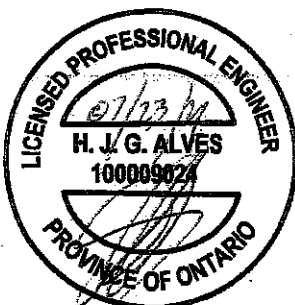
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
		788	1987
		1873	

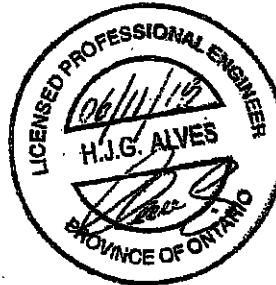
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2124011



Alves Engineering Services Inc.

5208 Easton road
Burlington, Ontario L7L 6N6
(289) 259 5455

RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate Institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet Mill7473C REV.10-08 attached for information on symbols, numbering tem and General Safety notes.

T-1900219

Feb 09, 2018

TOE-NAIL CAPACITY DETAILS

LATERAL AND WITHDRAWAL RESISTANCE OF BEARING ANCHORAGE BY TOE-NAILS

			SPF	D. FIR	SPF	D. FIR
COMMON WIRE	3.00	0.144	122	139	30	42
	3.25	0.144	127	144	32	45
	3.50	0.160	152	173	38	52
COMMON SPIRAL	3.00	0.122	96	108	26	36
	3.25	0.122	97	108	28	40
	3.50	0.152	142	161	36	50
3.25" Gun nail	3.25	0.120	94	105	28	39

Note: If using truss with D. Fir lumber and SPF bearing plate, use tabulated SPF values in table.

Nail type:	Common wire	Common spiral	Common wire	Common spiral	Gun Nail
Diameter (in.)	0.160	0.152	0.144	0.122	0.120
Length (in.)	3.50	3.50	3.00	3.00	3.25
2x4 SPF	2	2	3	3	3
2x6 SPF	4	4	4	5	5
2x4 D. FIR	2	2	2	2	2
2x6 D. FIR	3	3	3	4	4

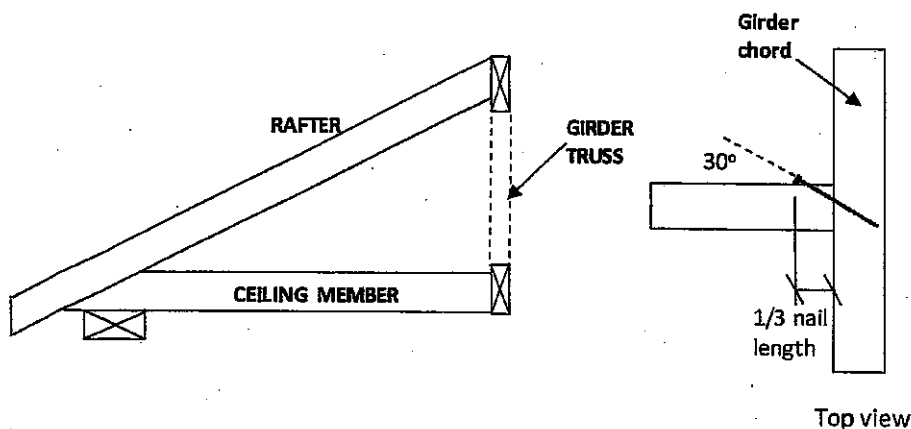
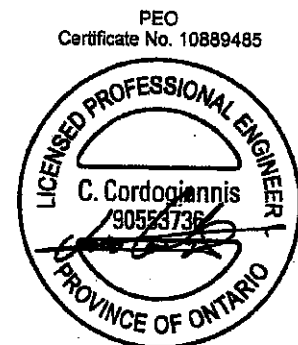


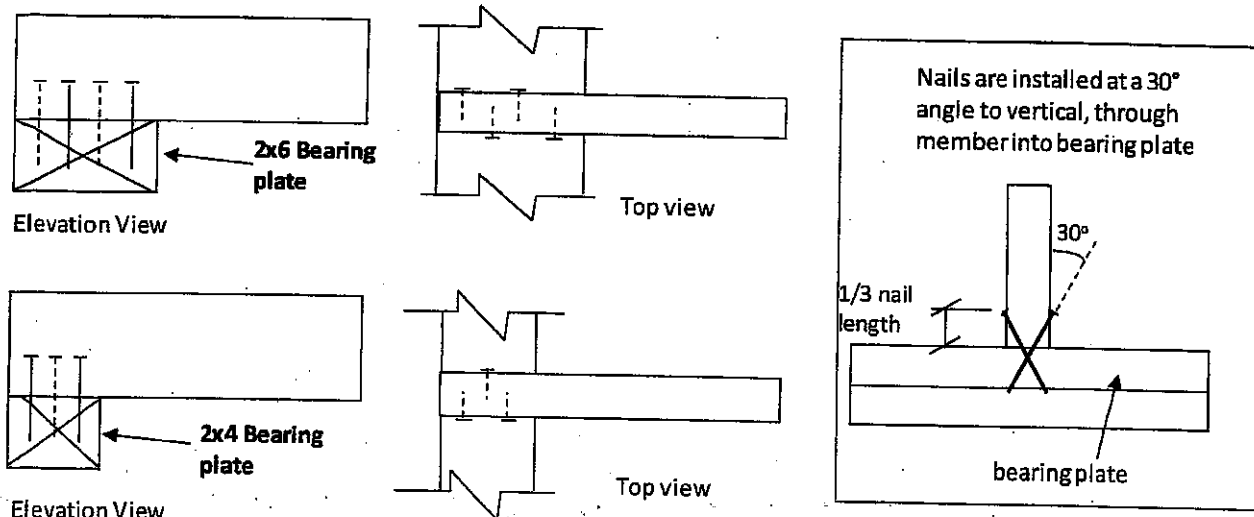
Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss



December 21, 2020

TOE-NAIL CAPACITY DETAILS

Figure 2: Toe-Nail Anchorage to Bearing Plate for Uplift



NOTES:

1. Rafter and ceiling members may be connected to top and bottom chords of girder truss by toe-nailing the members into the girder chords (see fig. 1), provided the factored vertical reactions of the supported members do not exceed the lateral resistance of the toe-nails. Mechanical connectors (hangers) are required if factored vertical reactions exceed the toe-nail capacity, or if the connection must resist horizontal loads (loads perpendicular to the face of girder or rafter).
2. Trusses, rafters or ceiling members may be anchored to the bearing plate with toe-nails (see fig. 2), provided that the factored uplift reactions due to **wind or earthquake loads** do not exceed the **withdrawal resistance of the toe-nails**. Mechanical anchors (tie-downs) are required for reactions that exceed the toe-nail withdrawal capacity. Toe-nail anchorage to bearing plates is **NOT** permitted if uplift reactions are generated from gravity loads (snow, floor live, dead).
3. Tabulated toe-nail resistances on page 1 are for **one** toe-nail. Multiply unit values by the number of nails used in the connection. Maximum number of nails in a connection shall not exceed the tabulated limits shown on page 1 for a given lumber size /species.
4. Nail values are based on specific gravity of $G = 0.42$ (SPF) and $G = 0.49$ (D. Fir).
5. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member.
6. For wind / earthquake loads, tabulated lateral resistances may be multiplied by 1.15 (K_0 factor). No increases are permitted for tabulated withdrawal resistances.
7. Lumber must be dry ($< 19\%$ moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-19, Clause 12.9.

PEO
Certificate No. 10889485



LUL/LUS/LJS/HUS/HHUS/HGUS

SIMPSON
Strong-Tie

Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of a) easier installation, b) higher capacities, c) lower installed cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 217–218.

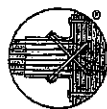
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 18–20.

Installation:

- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1 1/2" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on pp. 105–107.



Double-Shear Nailing Top View

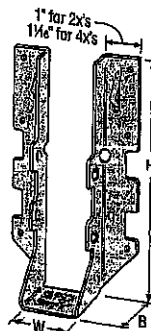
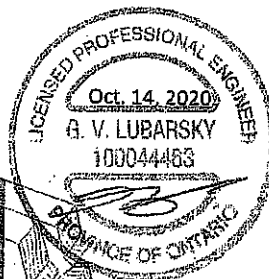
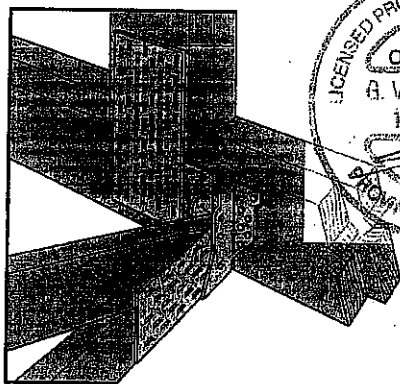


Double-Shear Nailing Side View; Do not bend tab

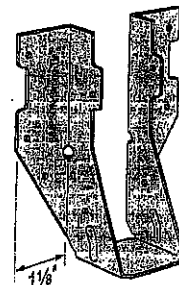


Dome Double-Shear Nailing Side View (available on some models)

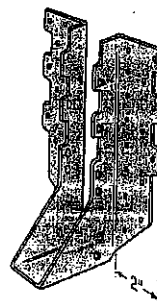
Typical HUS26 Installation with Reduced Heel Height
(Truss Designer to provide fastener quantity for connecting multiple members together)



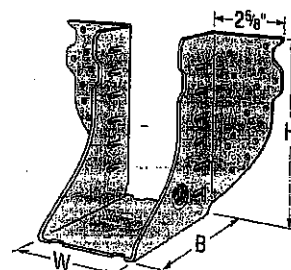
✓ LUS28



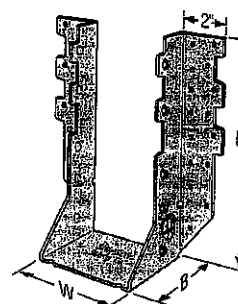
LU26L



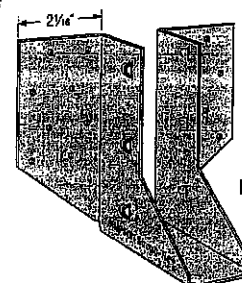
✓ HUS210
(HUS26, HUS28, and HHUS similar)



✓ HGUS28-2



✓ HHUS210-2



LJS26DS

TECHNICAL BULLETIN

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:

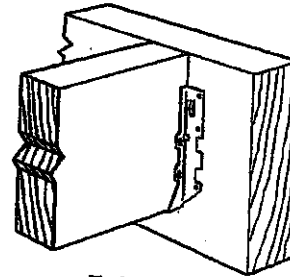
- Factored resistances are in accordance with CSA 086-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

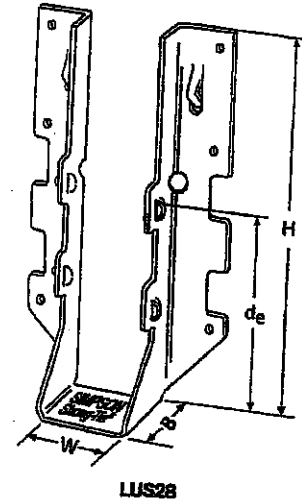
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

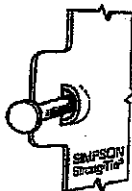


Typical LUS Installation

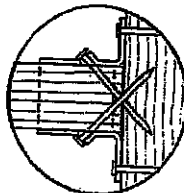


Model No.	Ga.	Dimensions (in.)					Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist		Df-L		S-P-F	
									Uplift	Normal	Uplift	Normal
LUS24	18	1 1/8	3 1/4	1 1/4	1 1/8	(4) 10d	(2) 10d		(K _e =1.15)	(K _e =1.00)	(K _e =1.15)	(K _e =1.00)
LUS24-2	18	3 1/8	3 1/4	2	1 1/8	(4) 16d	(2) 16d		835	2020	845	1155
LUS26	18	1 1/8	4 1/4	1 1/4	3 3/8	(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 1/4	2	3 3/8	(4) 16d	(4) 16d		1720	2595	1545	2340
LUS28	18	1 1/8	6 1/4	1 1/4	3 3/8	(8) 10d	(8) 10d		1420	2520	1290	1790
LUS28-2	18	3 1/8	7	2	4	(8) 16d	(4) 16d		1720	3325	1545	2575
LUS28-3	18	4 1/8	6 3/4	2	3 3/8	(8) 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	(8) 16d		2580	4500	2320	3195
LUS210-3	18	4 1/8	8 3/8	2	5 1/4	(8) 16d	(8) 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 5,803,580



Double Shear Nailing Top View.



LIMIT STATES DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPEC LUS20 3/20 exp. 6/22

(800) 999-6099
strongtie.com

TECHNICAL BULLETIN

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:

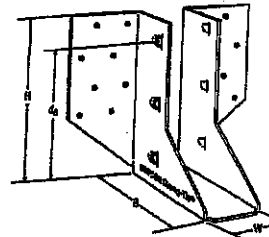
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

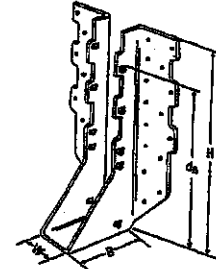
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

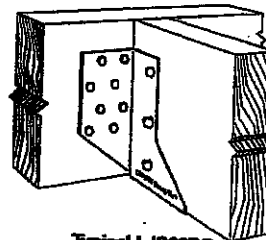
- See current catalogue for options



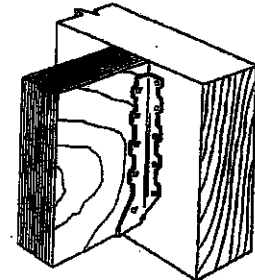
LJS26DS



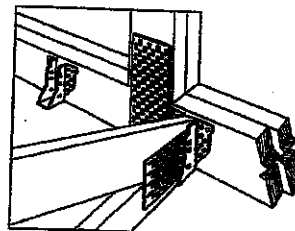
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



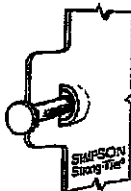
Typical HUS
Installation



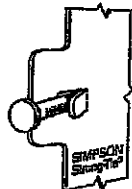
Typical HUS Installation
(Truss Designer to provide fastener
quantity for connecting multiple
members together)

Model No.	Ga.	Dimensions (in.)					Fasteners		Factored Resistances (lb.)			
		W	H	B	d ₁	Face	Joist		D.F.-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 1/4	5	3 1/2	4	(16) 16d	(6) 16d		2055	4265	1460	4115
HUS26	16	1 1/4	5 1/2	3	3 1/4	(14) 16d	(6) 16d		2705	4940	2065	3875
HUS28	16	1 1/4	7 1/2	3	6 1/2	(22) 16d	(8) 16d		3605	5365	2675	4345
HUS210	16	1 1/4	9 1/2	3	7 1/2	(30) 16d	(10) 16d		4505	5795	4010	4740
HUS1.81/10	16	1 1/4	9	3	8	(30) 16d	(10) 16d		4505	6450	4010	5200

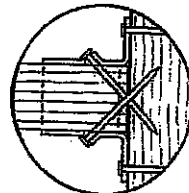
1. d₁ is the distance from the seat of the hanger to the highest joist nail.



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.

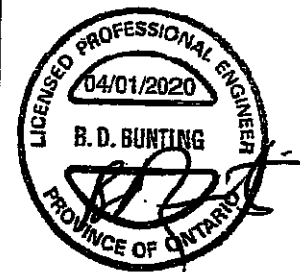


LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECHUS20 3/20 exp. 6/22



(800) 999-5099
strongtie.com

TECHNICAL BULLETIN

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:

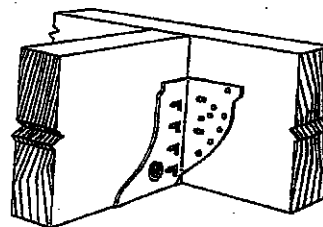
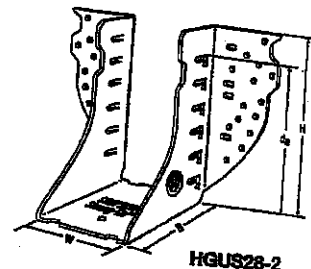
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

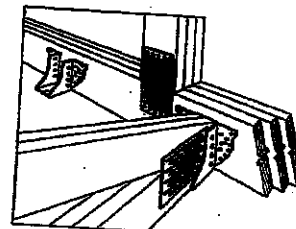
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



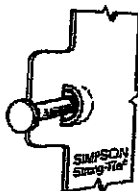
Typical HGUS Installation



Typical HGUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

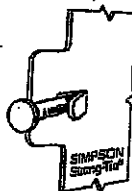
Model No.	Ga.	Dimensions (in.)					Fasteners		Factored Resistance (lb.)			
		W	H	B	d ₁		Face	Joist	D.F.R.-L		S-P-F	
									Uplift (K ₁ =1.15)	Normal (K ₂ =1.00)	Uplift (K ₁ =1.15)	Normal (K ₂ =1.00)
HGUS26	12	1 1/8	5 1/8	5	4 1/2		(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8		(20) 16d	(8) 16d	4365	8950	3100	6355
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8		(20) 16d	(8) 16d	4365	8950	3100	6355
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8		(20) 16d	(8) 16d	4365	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	12	1 1/8	9 1/8	5	7 1/8		(46) 16d	(16) 16d	3535	11070	2510	8090
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8		(46) 16d	(16) 16d	6840	14015	4855	10270
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. d₁ is the distance from the seat of the hanger to the highest joist nail.

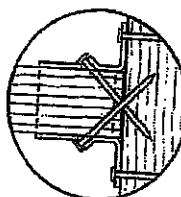


Double Double Shear Nailing prevents tabs breaking off (available on some models).

U.S. Patent 5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



LIMIT STATES DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECHGUS20 3/20 exp. 6/22



(800) 999-5099
strongtie.com

TECHNICAL BULLETIN

HHUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

All HHUS 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: 14 gauge

Finish: G90 galvanized

Design:

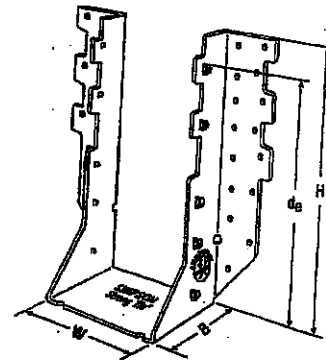
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

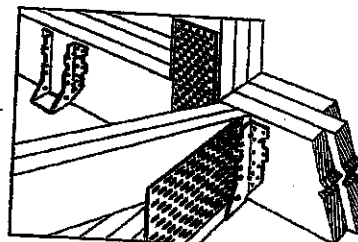
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



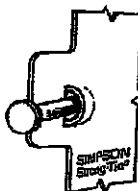
HHUS410



Typical HHUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

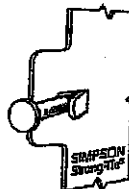
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d ₁ ¹	Face	Joist	DLF=1		S-P-F	
								Uplift (K _u =1.15)	Normal (K _n =1.00)	Uplift (K _u =1.15)	Normal (K _n =1.00)
HHUS26-2	14	3 3/16	5 1/16	3	3 1/16	(14) 16d	(6) 16d	2850	7335	2065	5205
HHUS28-2	14	3 3/16	7 1/16	3	6 3/16	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS210-2	14	3 3/16	9 3/16	3	8	(30) 16d	(10) 16d	4670	9855	4235	7000
HHUS210-3	14	4 1/16	9	3	7 15/16	(30) 16d	(10) 16d	4670	9870	4235	6865
HHUS210-4	14	6 1/16	8 3/16	3	7 27/32	(30) 16d	(10) 16d	4670	10155	4235	7210
HHUS46	14	3 3/16	5 3/16	3	3 15/16	(14) 16d	(6) 16d	2540	7335	2065	5205
HHUS48	14	3 3/16	7 1/16	3	6 1/16	(22) 16d	(8) 16d	3765	8940	2675	6345
HHUS410	14	3 3/16	9	3	8	(30) 16d	(10) 16d	4670	9855	4235	7000
HHUS5.50/10	14	5 1/2	9	3	8	(30) 16d	(10) 16d	4670	10155	4235	7210
HHUS7.25/10	14	7 1/4	9	3 3/16	7 27/32	(30) 16d	(10) 16d	4670	10155	3370	7210

1. d₁ is the distance from the seat of the hanger to the highest joist nail.

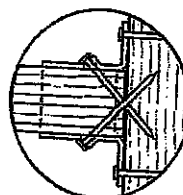


Double Shear Nailing prevents tabs breaking off (available on some models).

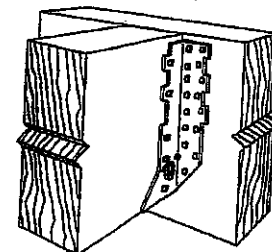
U.S. Patent
5,803,580



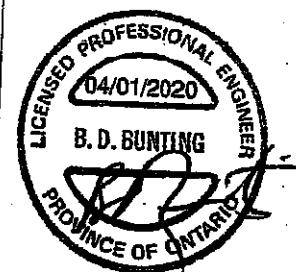
Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



Typical HHUS Installation



LIMIT STATES DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

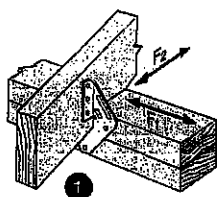
© 2020 Simpson Strong-Tie Company Inc.

T-SPECHHUS20 3/20 exp. 6/22

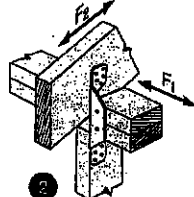
(800) 999-5099
strongtie.com

H/TSP

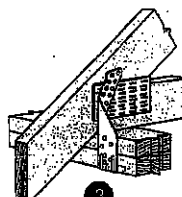
Seismic and Hurricane Ties (cont.)



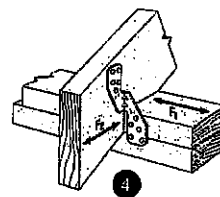
1 H1 Installation



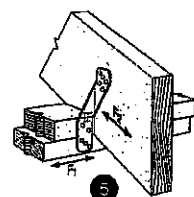
2 H2A Installation



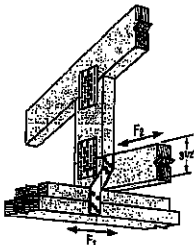
3 TSP Installation



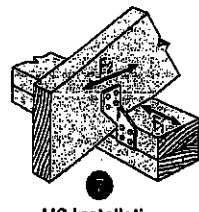
4 H2.5A Installation
(Nails into both top plates)



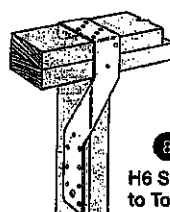
5 H2.5T Installation
(Nails into both top plates)



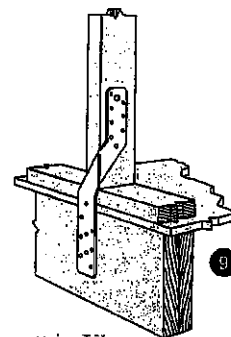
6 H2.5T Installation



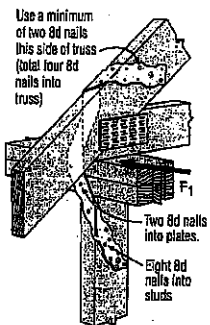
7 H3 Installation
(Nails into upper top plate)



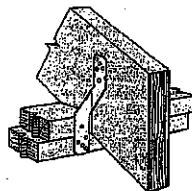
8 H6 Stud to Top Plate Installation



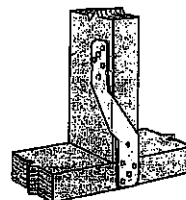
9 H6 Stud to Band Joist Installation



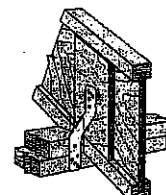
10 H7Z Installation



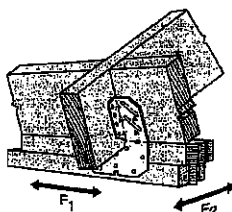
11 H8 Attaching Rafter to Double Top Plates



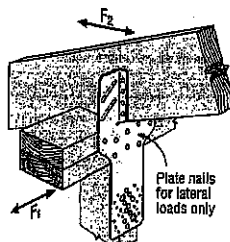
12 H8 attaching Stud to Sill
(4) 8d into plate, (5) 8d into stud



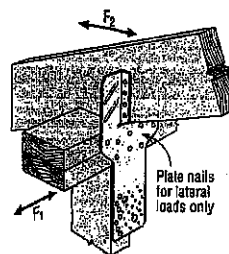
13 H8 attaching I-Joist to Double Top Plates



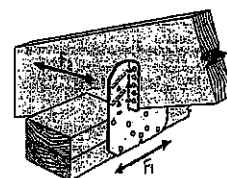
14 H10A Field-Bent Installation



15 H10S Installation

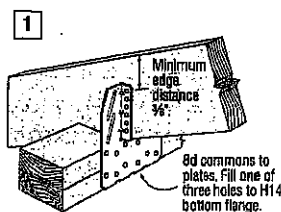


16 H10S Installation with Stud Offset

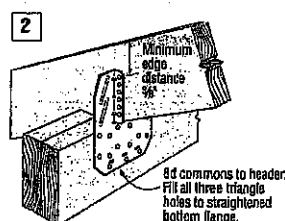


17 H10A Installation

H10A optional positive angle nailing connects shear blocking to rafter. Use 8d common nails. Slot allows maximum field-bending up to a pitch of 6/12, use 75% of the table uplift value; bend one time only.

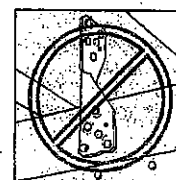


18 H14 Installation to Double Top Plates



19 H14 Installation to Double 2x Header

Avoid a Misinstallation



Do not make new holes or overdrive nails.

Straps and Ties

Seismic and Hurricane Ties

Installation:

- Use all specified fasteners; see General Notes.
- H1 can be installed with flanges facing inward (reverse of H1 installation drawing; number 1).
- H2.5T, H3 and H6 ties are shipped in equal quantities of right and left versions (right versions shown).
- Hurricane ties do not replace solid blocking.
- When installing ties on plated trusses (on the side opposite the truss plate) do not fasten through the truss plate from behind. This can force the truss plate off of the truss and compromise truss performance.
- H10A optional nailing to connect shear blocking, use 8d nails. Slots allow maximum field bending up to a pitch of 6:12, use H10A sloped loads for field bent installation.

Finish: Galvanized. H7Z and H11Z – ZMAX® coating. Some models available in stainless steel or ZMAX; see Corrosion Information, pp.20–24 or visit strongtie.com.



TECHNICAL BULLETIN

H – Seismic and Hurricane Ties

SIMPSON
Strong-Tie

The H connector series provides wind and seismic ties for trusses and rafters.
Material: 18 gauge **Finish:** G90 galvanized

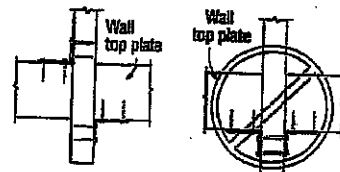
Design: • Factored resistances are in accordance with CSA O86-14
• Factored resistances have been increased 15%. No further increase is permitted.

Installation: • Use all specified fasteners

- Nails: $8d = 0.131"$ dia. x $2\frac{1}{2}"$ long common wire, $8d \times 1\frac{1}{2}" = 0.131" \times 1\frac{1}{2}"$ long, $10d \times 1\frac{1}{2}" = 0.146" \times 1\frac{1}{2}"$ long
- H1 can be installed with flanges facing outwards
- Hurricane ties do not replace solid blocking

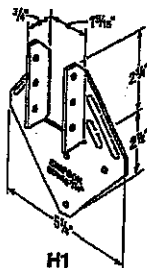
Factored resistances for more than one direction for a single connection cannot be added together. A factored load which can be divided into components in the directions given must be evaluated as follows: Factored Shear/Resisting Shear + Factored Tension/Resisting Tension ≤ 1.0 .

Hurricane Tie Installations to Achieve Twice the Load (Top View)

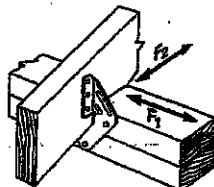


Install diagonally across from each other for minimum 2x truss.

Nailing into both sides of a single ply 2x truss may cause the wood to split.



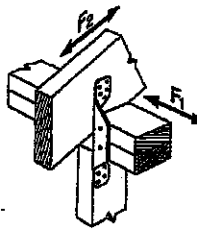
H1



H1 Installation



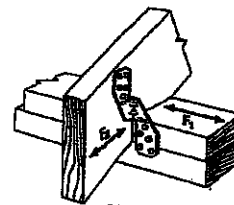
H2A



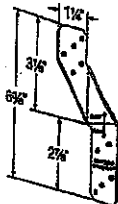
H2A Installation



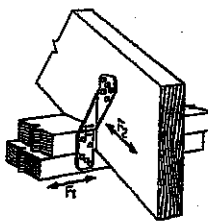
H2.5A



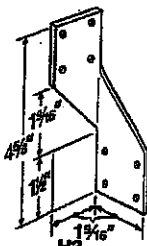
H2.5A Installation



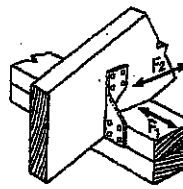
H2.5T



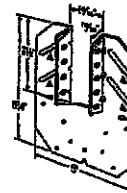
H2.5T Installation
(Nails into both top plates)



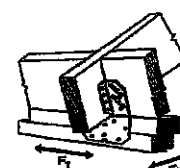
H3



H3 Installation



H10A



H10A Installation

Model No.	Ga.	Fasteners			Factored Resistance (lb.)					
					D.Fir-L			S-P-F		
					Uplift	Normal		Uplift	Normal	
		To Rafter	To Plates	To Studs		F ₁	F ₂		F ₁	F ₂
H1	18	(5) 8d x 1 1/2"	(4) 8d	—	740	685	300	680	485	215
H2A	18	(5) 8d x 1 1/2"	(2) 8d x 1 1/2"	(5) 8d x 1 1/2"	830	220	75	580	155	55
H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
H2.5T	18	(5) 8d	(5) 8d	—	835	175	240	740	180	210
H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
H10A	18	(9) 10d x 1 1/2"	(8) 10d x 1 1/2"	—	1735	795	410	1505	565	290

1. Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed.

2. Factored resistances are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.

- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a Continuous Load Path, connections must be on same side of the wall.



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECH20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

TECHNICAL BULLETIN

TC - Truss Connectors

SIMPSON
Strong-Tie

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1/4". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

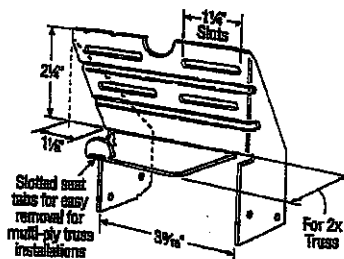
Design: Factored resistances are in accordance with CSA 086-14

Installation:

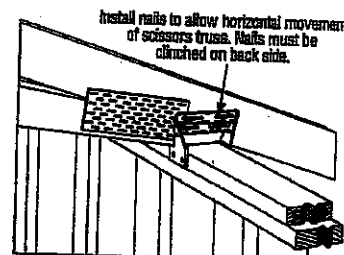
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

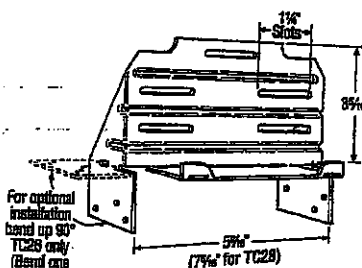
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



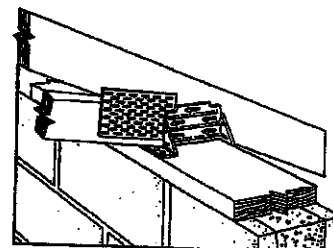
TC24
U.S. Patent 4,932,173



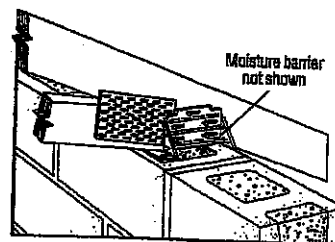
Typical TC24 Installation



TC26
(TC28 Similar)



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer
(8", 10", 12" Wall Installation Similar)



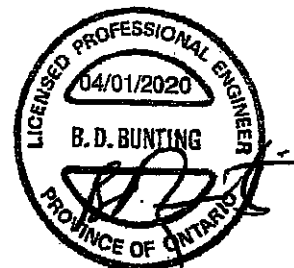
Optional TC26 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _o =1.15)	Uplift (K _o =1.15)
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(6) 10d	1015	720
TC28	(5) 10d	(6) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _o =1.15)	Uplift (K _o =1.15)
TC26	(5) 10d	(6) 10d x 1 1/2"	810	660
	(5) 10d	(6) 10d	930	660

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (6) - 3/8" x 2 1/4" Titen screws has a factored uplift resistance of 275 lb.



**LIMIT
STATES
DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECTC20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

HTU

Face-Mount Truss Hanger (cont.)

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Alternate Installation for (2) 2x4 and (2) 2x6 Headers

Model No.	Min. Nail Height (in.)	Minimum Header Size	Fasteners		Factored Resistance			
					D.Fir-L		S-P-F	
			Header	Joist	Uplift (K _Q = 1.15)	Normal (K _Q = 1.00)	Uplift (K _Q = 1.15)	Normal (K _Q = 1.00)
					lb.	lb.	lb.	lb.
HTU26 (Min.)	3%	(2) 2x4	(10) 16d	(14) 10d x 1 1/2"	1740	3340	1235	2370
HTU26 (Max.)	5 1/2"	(2) 2x4	(10) 16d	(20) 10d x 1 1/2"	774	1485	549	1054
HTU28 (Max.)	3%	(2) 2x6	(20) 16d	(26) 10d x 1 1/2"	2470	4015	1755	2850
HTU210 (Max.)	7 1/4"	(2) 2x6	(20) 16d	(32) 10d x 1 1/2"	10.99	17.86	7.81	12.68
					4150	6395	2945	4540
					18.46	28.45	13.10	20.19
					4150	6395	2945	4540
					18.46	28.45	13.10	20.19

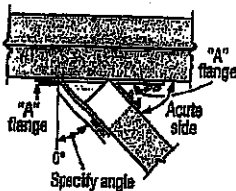
See table footnotes on p. 280.

Hanger Options

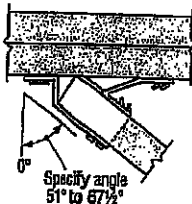
See Hanger Options Information on pp. 125-127.

Skewed Seat

- Skewable up to 67 1/2°
- Available in single and 2-ply size
- No bevel cut required



Top View HTU Hanger Skewed Right < 51°

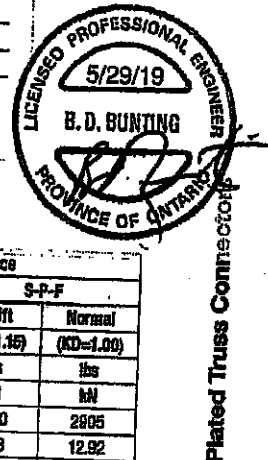


Top View HTU Hanger Skewed Right ≥ 51°

Factored Resistances for Skewed HTU Hangers

Model No.	Skew Angle (Degrees)	Fasteners		Factored Resistance			
				D.Fir-L		S-P-F	
		Header	Joist	Uplift (K _Q = 1.15)	Normal (K _Q = 1.00)	Uplift (K _Q = 1.15)	Normal (K _Q = 1.00)
				lb.	lb.	lb.	lb.
HTU26	< 51	(20) 16d	(14) 10d x 1 1/2"	1835	4110	1390	2605
	51-67 1/2	(20) 16d	(12) 10d x 1 1/2"	8.16	18.28	6.78	12.92
HTU28	< 51	(26) 16d	(20) 10d x 1 1/2"	1350	3620	955	2560
	51-67 1/2	(26) 16d	(17) 10d x 1 1/2"	8.01	18.19	4.25	11.39
HTU210	< 51	(32) 16d	(26) 10d x 1 1/2"	2810	4270	1985	3030
	51-67 1/2	(32) 16d	(22) 10d x 1 1/2"	12.50	18.99	8.83	13.48
HTU26-2	< 51	(20) 16d	(14) 10d	2075	3930	1465	2780
	51-67 1/2	(20) 16d	(12) 10d	9.23	17.48	6.52	12.37
HTU28-2	< 51	(26) 16d	(20) 10d	3785	4430	2675	3135
	51-67 1/2	(26) 16d	(17) 10d	16.84	19.71	11.90	13.95
HTU210-2	< 51	(32) 16d	(26) 10d	2795	4240	1980	3000
	51-67 1/2	(32) 16d	(22) 10d	12.43	18.86	8.81	13.35
HTU26-2	< 51	(20) 16d	(14) 10d	2140	3715	1515	2625
	51-67 1/2	(20) 16d	(12) 10d	9.52	16.53	6.74	11.68
HTU28-2	< 51	(26) 16d	(20) 10d	1610	3920	1140	2785
	51-67 1/2	(26) 16d	(17) 10d	7.16	17.44	5.07	12.39
HTU210-2	< 51	(32) 16d	(26) 10d	3980	5425	2815	3855
	51-67 1/2	(32) 16d	(22) 10d	17.82	24.13	12.52	17.16
HTU26-2	< 51	(20) 16d	(14) 10d	2385	5425	1695	3865
	51-67 1/2	(20) 16d	(12) 10d	10.61	24.13	7.54	17.15
HTU28-2	< 51	(26) 16d	(20) 10d	5025	6890	3670	4890
	51-67 1/2	(26) 16d	(17) 10d	22.35	30.65	15.88	21.75
HTU210-2	< 51	(32) 16d	(26) 10d	3145	6680	2225	4745
	51-67 1/2	(32) 16d	(22) 10d	13.99	20.72	9.90	21.10

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Reduced nail heights are not permitted for skewed HTU's.
3. Nails: 16d = 0.162" dia. x 3 1/2" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long, 10d = 0.148" dia. x 3" long. See pp. 27-28 for other nail sizes and information.



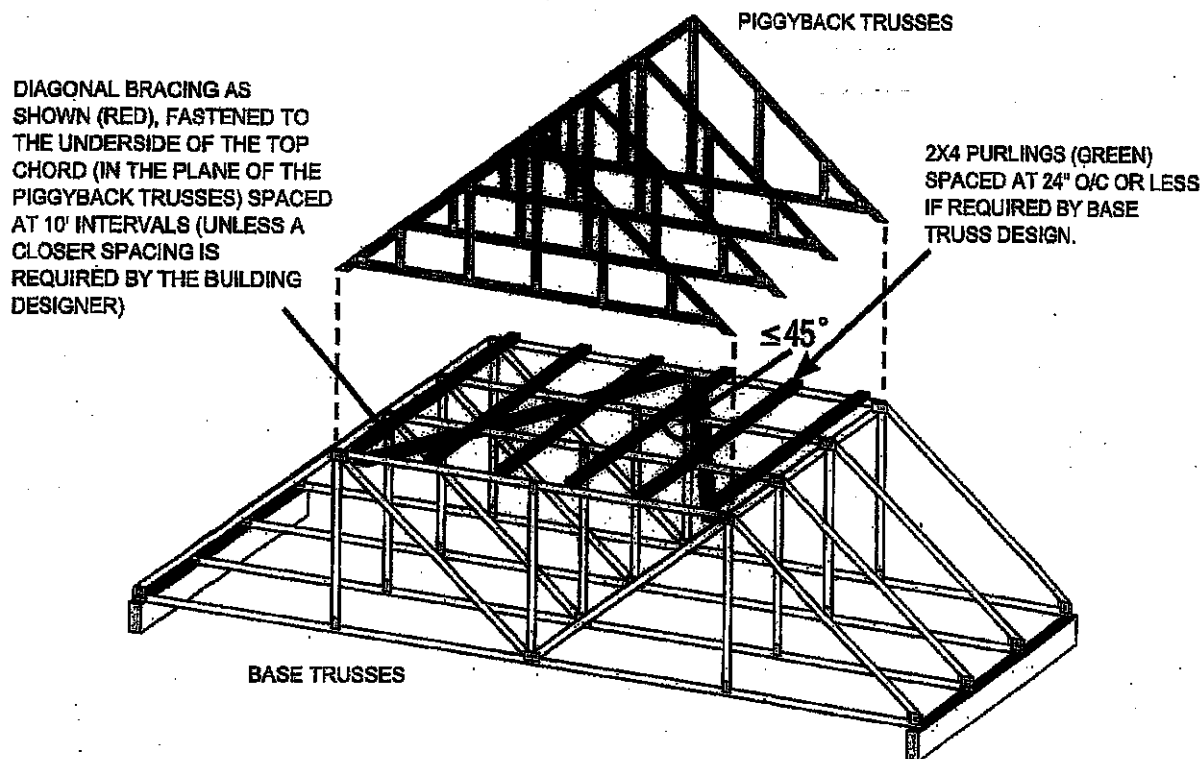
Plated Truss Connectors

Overview:

Where piggybacks are connected ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

HRS/HST/ST/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI

SIMPSON
Strong-Tie

Strap Ties

Straps are designed to transfer tension loads in a wide variety of applications.

HRS — Heavy strap designed for installation on the edge of 2x members. The HRS416Z installs with Strong-Drive® SDS Heavy-Duty Connector screws.

LSTA and MSTA — Designed for use on the edge of 2x members, with a nailing pattern that reduces the potential for splitting.

LSTI and MSTI — Light and medium straps that are suitable where pneumatic-nailing is necessary through diaphragm decking and wood chord open-web trusses.

MST — High-capacity strap that can be installed with either nails or bolts. Suitable for double 2x member connections or greater.

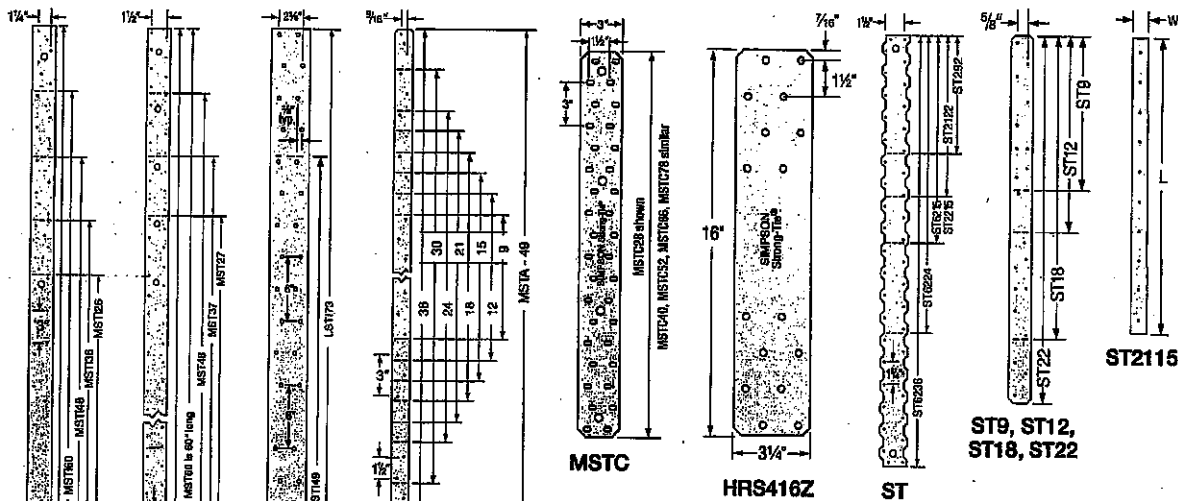
MSTC — High-capacity strap that utilizes a staggered nail pattern to help minimize wood splitting. Nail slots have been countersunk to provide a lower nail head profile.

Finish: Galvanized. Some products are available in stainless steel, ZMAX® coating or black powder coat (add PC to sku); contact Simpson Strong-Tie. See Corrosion Information, pp. 18–20.

Installation: Use all specified fasteners; see General Notes

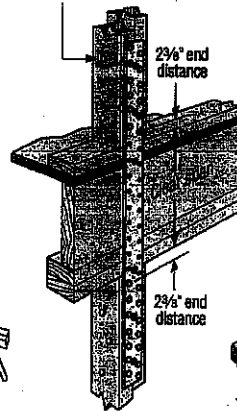
Options: Special sizes can be made to order; contact Simpson Strong-Tie for longer lengths

Straps and Ties



LSTA and MSTA
(Pilot holes not shown)

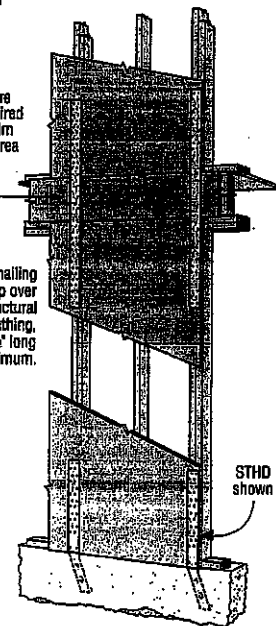
Stitch nailing
of double studs
by others



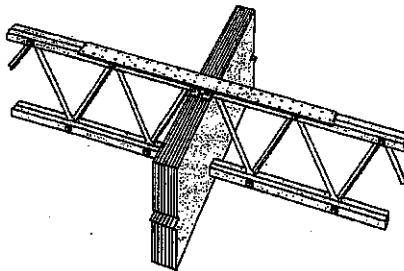
Floor-to-Floor Tie
Installation
Showing a
Clear Span

Nails are
not required
in the rim
board area

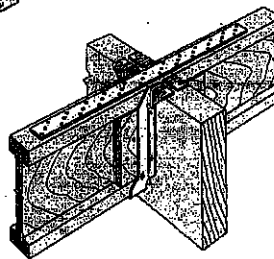
When nailing
the strap over
wood structural
panel sheathing,
use 2 1/2 inch long
nail, minimum.



**Typical Detail with
Strap Installed over
Wood Structural Panel
Sheathing**



Typical LSTI Installation



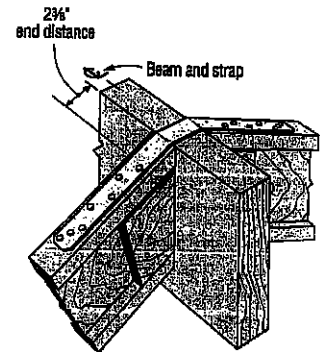
Typical MSTI Installation
(MIT hanger shown)
LSTI similar

HRS/HST/ST/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI**SIMPSON**
Strong-Tie**Strap Ties (cont.)**

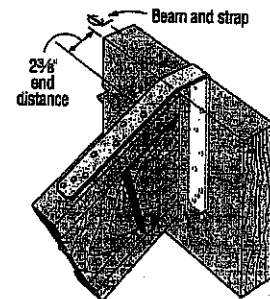
These products are available with additional corrosion protection. For more information, see p. 20.

SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 366-370 for more information.

Model No.	Ga.	Dimensions (in.)		Fasteners (Total)	Factored Tensile Resistance			
		W	L		D.Fir-L		S-P-F	
					(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)	(K _D = 1.15)
					lb.	lb.	lb.	lb.
					kN	kN	kN	kN
LSTA9	20	1¼	9	(6) 10d	600	690	555	635
LSTA12		1¼	12	(8) 10d	2.67	3.07	2.47	2.82
LSTA15		1¼	15	(10) 10d	800	920	735	845
LSTA18		1¼	18	(12) 10d	3.56	4.09	3.27	3.76
LSTA21		1¼	21	(14) 10d	1000	1150	920	1060
LSTA24		1¼	24	(16) 10d	4.45	5.12	4.09	4.72
ST292		2⅞	9⅞	(8) 8d	1200	1380	1105	1270
ST2122		2⅞	12⅞	(12) 8d	5.34	6.14	4.92	5.65
ST2115		¾	16⅞	(8) 8d	1400	1610	1290	1485
ST2215		2⅞	16⅞	(16) 8d	6.23	7.16	5.74	6.61
LSTA30	18	1¼	30	(20) 10d	1600	1840	1475	1695
LSTA36		1¼	36	(24) 10d	7.12	8.19	6.56	7.54
LSTI49		3¾	49	(32) 10d x 1½"	585	675	535	615
LSTI73		3¾	73	(48) 10d x 1½"	2.60	3.00	2.38	2.74
MSTA9		1¼	9	(6) 10d	940	1085	865	995
MSTA12		1¼	12	(8) 10d	4.18	4.83	3.85	4.43
MSTA15		1¼	15	(10) 10d	670	770	615	710
MSTA18		1¼	18	(12) 10d	2.98	3.43	2.74	3.16
MSTA21		1¼	21	(14) 10d	1335	1540	1235	1420
MSTA24		1¼	24	(16) 10d	5.94	6.85	5.49	6.32
MSTA30	16	1¼	30	(20) 10d	2235	2465	2075	2385
MSTA36		1¼	36	(24) 10d	9.94	10.97	9.23	10.61
MSTA49		1¼	49	(28) 8d	2465	2465	2465	2465
ST6215		2⅞	16⅞	(16) 8d	10.97	10.97	10.97	10.97
ST6224		2⅞	23⅞	(24) 8d	3115	3580	2852	3280
ST9		1¼	9	(6) 8d	13.86	15.93	12.69	14.59
ST12		1¼	11⅞	(8) 8d	20.77	23.89	19.04	21.89
ST18		1¼	17⅞	(12) 8d	670	770	625	715
ST22		1¼	21⅞	(18) 8d	2.98	3.43	2.78	3.18
					895	1030	830	955
				3.98	4.58	3.69	4.25	
				1120	1285	1040	1195	
				4.98	5.72	4.63	5.32	
				1340	1545	1245	1430	
				5.96	6.87	5.54	6.36	
				1555	1800	1455	1670	
				6.96	8.01	6.47	7.43	
				1790	2060	1660	1910	
				7.96	9.18	7.38	8.50	
				2470	2840	2260	2595	
				10.99	12.63	10.05	11.54	
				2965	3070	2710	3070	
				13.19	13.66	12.06	13.66	
				2725	2725	2545	2725	
				12.12	12.12	11.32	12.12	
				1405	1615	1300	1500	
				6.25	7.18	5.78	6.67	
				2305	2650	2155	2475	
				10.25	11.79	9.59	11.01	
				525	605	490	560	
				2.34	2.69	2.18	2.49	
				700	805	650	750	
				3.11	3.58	2.89	3.34	
				1050	1210	975	1125	
				4.67	5.38	4.34	5.00	
				1580	1790	1465	1685	
				7.03	7.96	6.52	7.50	



Typical LSTA Installation
(hanger not shown)
Bend strap one time only



Typical LSTA Installation
(hanger not shown)
Bend strap one time only

Straps and Ties

- Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed.
- Use half of the nails in each member being connected to achieve the listed resistances.
- Nails: 10d = 0.148" dia. x 3" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long, 8d = 0.131" dia. x 2 1/2" long. See pp. 22-23 for other nail sizes and information.

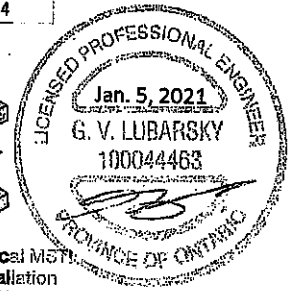
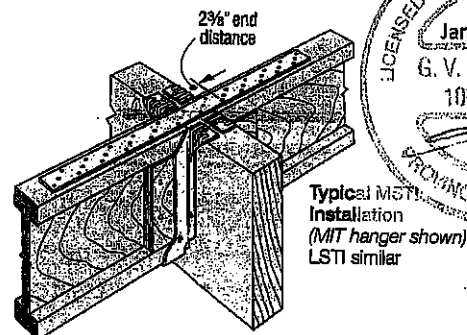
HRS/HST/ST/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI**SIMPSON**
Strong-Tie®**Strap Ties (cont.)**

These products are available with additional corrosion protection. For more information, see p. 20.

SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 366-370 for more information.

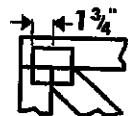
Model No.	Gr.	Dimensions (in.)		Fasteners (Total)	Factored Tensile Resistance			
		W	L		D.Fir-L		S-P-F	
					(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)	(K _D = 1.15)
					lb.	lb.	lb.	lb.
					kN	kN	kN	kN
MSTC28	16	3	28¼	(32) 10d	3955	4545	3615	4155
					17.59	20.22	16.08	18.48
MSTC40		3	40¼	(48) 10d	5930	6820	5420	6235
					26.38	30.34	24.11	27.74
MSTC52	14	3	52¼	(54) 10d	6670	6940	6100	6940
					29.67	30.87	27.14	30.87
MSTC66		3	65¼	(66) 10d	8515	8565	7455	8565
					37.88	38.10	33.16	38.10
MSTC78	12	3	77¼	(66) 10d	8515	8565	7455	8565
					37.88	38.10	33.16	38.10
ST6236		2⅝	33⅞	(36) 8d	3735	4295	3270	3760
					16.61	19.11	14.55	16.73
MSTI26	12	2⅝	26	(22) 10d x 1 ½"	2825	3250	2475	2850
					12.57	14.46	11.01	12.68
MSTI36		2⅝	36	(32) 10d x 1 ½"	4110	4725	3600	4140
					18.28	21.02	16.01	18.42
MSTI48	10	2⅝	48	(44) 10d x 1 ½"	5650	6500	4955	5695
					25.13	28.91	22.04	25.33
MSTI60		2⅝	60	(56) 10d x 1 ½"	7195	7360	6305	7250
					32.01	32.74	28.05	32.25
MSTI72	8	2⅝	72	(68) 10d x 1 ½"	7360	7360	7240	7360
					32.74	32.74	32.21	32.74
MST27		2⅝	27	(26) 8d	2685	3090	2355	2710
					11.94	13.75	10.48	12.06
MST37	6	2⅝	37½	(38) 8d	3930	4515	3440	3960
					17.48	20.08	15.30	17.62
MST48		2⅝	48	(50) 8d	5170	5945	4530	5210
					23.00	26.45	20.15	23.18
HRS416Z	4	3¼	16	(16) ¼" x 1 ½" SDS	2400	2760	2120	2440
					10.68	12.28	9.43	10.85
MST60		2⅝	60	(64) 8d	6620	7610	5800	6670
					29.45	33.85	25.80	29.67
MST72	3	2⅝	72	(78) 8d	8065	9135	7065	8125
					35.88	40.64	31.43	36.14

1. Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed.
2. Use half of the nails in each member being connected to achieve the listed resistances.
3. Nails: 10d = 0.148" dia. x 3" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long, 8d = 0.131" dia. x 2 1/2" long. See pp. 22-23 for other nail sizes and information.

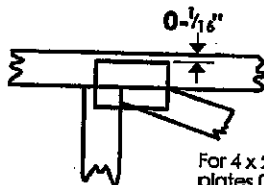


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING

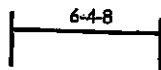


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

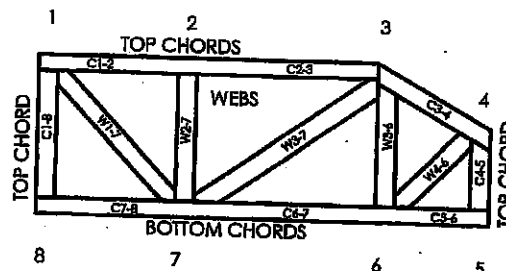
Industry Standards:

- TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

© 2007 MiTek® All Rights Reserved

MiTek
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: MII-7473C rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.

LGT/MGT/VGT

SIMPSON
Strong-Tie

Girder Tiedowns

The LGT, MGT and VGT are girder tiedowns for moderate- to high-load applications. The LGT and VGT are also suitable for retrofit applications.

LGT connectors provide a low-profile connection to the studs for easy installation of drywall. Simple to install and can be installed on the inside or outside of the wall.

The variable girder tiedown (VGT) is a higher capacity alternative to the LGT and MGT for girder trusses. It attaches with Strong-Drive® SDS Heavy-Duty Connector screws to the side of truss and features a predeflected crescent washer that allows it to accommodate top chord pitches up to 8:12. The VGT is also available with one flange concealed for attachment to trusses with no overhang.

Material: VGT — 7 gauge, LGT2 — 14 gauge, MGT, LGT3, LGT4 — 12 gauge

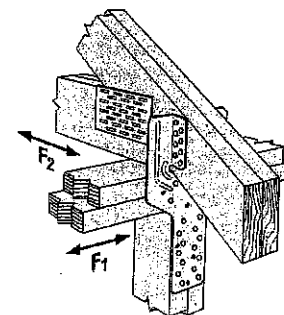
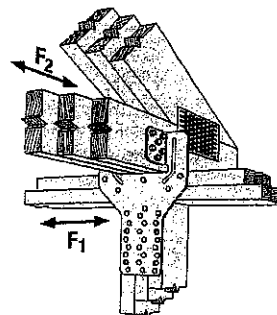
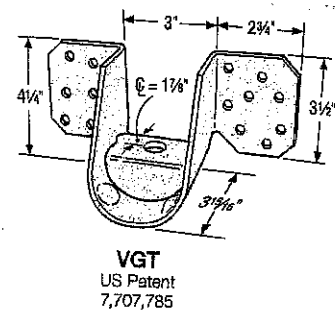
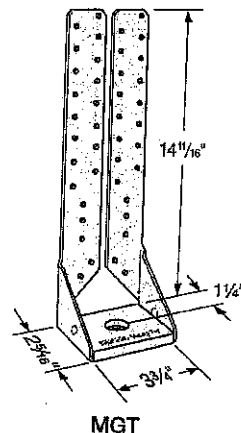
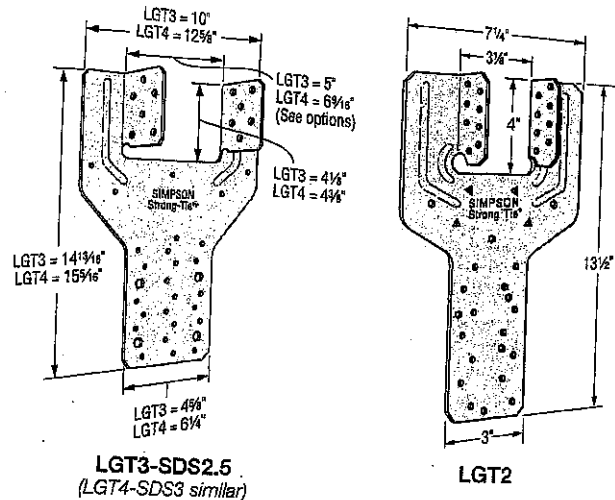
Finish: Galvanized

Installation:

- Before installing fasteners, ensure LGT3-SDS2.5 makes complete contact with bottom of truss.
- Strong-Drive SDS Heavy-Duty Connector screws included with LGT3, LGT4 and VGT series.
- Strong-Drive SDS Heavy-Duty Connector screws driven through truss plates must be approved by the Truss Designer. Predrilling using a $\frac{3}{16}$ " bit is required.
- VGT — Can be installed on roof pitches up to 8/12 or on a bottom chord designed to transfer the load.
- VGT — Screw holes are configured to allow for double installation on a two-ply (minimum) truss.
- VGT — The product can be installed in a single application or in pairs to achieve a higher uplift capacity.
- VGT — When installed on trusses with no overhangs, specify VGTR/L.
- VGT — Install washer component (provided) so that top of washer is horizontal as well as parallel with top of wall top plate.
- LGT3-SDS2.5 and LGT4-SDS3 — The four large hexagon holes are intended for GFCMU and concrete applications.
- MGT — Install a minimum of (6) 10d nails into the face of roof member that is on same side as MGT base.
- See p. 303 for masonry applications.

Options:

- LGT3 and LGT4 are available with reduced widths of $W = 4\frac{1}{16}$ " and $W = 6\frac{1}{16}$ " — order as LGT3N-SDS2.5 and LGT4N-SDS3.



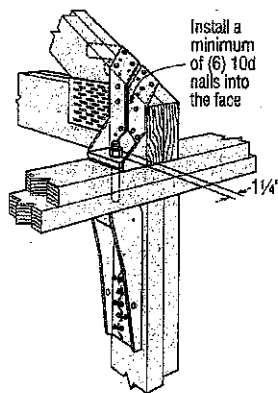
LGT/MGT/VGT

Girder Tiedowns (cont.)

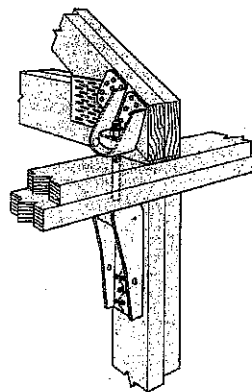
These products are available with additional corrosion protection. For more information, see p. 20.

Model No.	Qty.	No. of Plies	Fasteners		Factored Resistance ($K_D = 1.15$)					
			Studs or Anchor	Girder Truss	D.Fir-L			S-P-F		
					Uplift	Lateral		Uplift	Lateral	
						F ₁	F ₂		F ₁	F ₂
					lb.	lb.	lb.	lb.	lb.	lb.
					kN	kN	kN	kN	kN	kN
LGT2	1	Two ply	(14) 10d ^a	(16) 10d	3670	1170	285	2605	830	200
					16.33	5.20	1.27	11.59	3.69	0.89
LGT3-SDS2.5	1	Three ply	(26) 10d	(12) ¼" x 2½" SDS	6415	1335	670	4930	945	475
					28.54	5.94	2.98	21.93	4.20	2.11
LGT4-SDS3	1	Four ply	(30) 10d ^a	(16) ¼" x 3" SDS	6030	2785	1125	3980	1980	800
					26.82	12.39	5.00	17.70	8.81	3.56
MGT	1	Two ply min.	(1) ⅝" diameter	(22) 10d	5610	—	—	3985	—	—
					24.96	—	—	17.73	—	—
VGT	1	Two ply min.	(1) ⅝" diameter	(16) ¼" x 3" SDS	8600	—	—	6195	—	—
					38.26	—	—	27.56	—	—
	2	Two ply min.	(2) ⅝" diameter	(32) ¼" x 3" SDS	11690	—	—	8420	—	—
					52.00	—	—	37.46	—	—
VGTR/L	1	Two ply min.	(1) ⅝" diameter	(16) ¼" x 3" SDS	3475	—	—	2505	—	—
					15.46	—	—	11.14	—	—
	2	Two ply min.	(2) ⅝" diameter	(32) ¼" x 3" SDS	6950	—	—	5010	—	—
					30.92	—	—	22.29	—	—

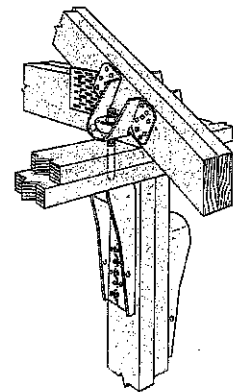
1. Attached members must be designed to resist the factored resistances.
2. Factored resistances have been increased 15% for uplift with no further increase allowed; reduce where other loads govern.
3. Additional anchorage products to be designed by others.
4. LGT2 — F₂ factored resistance requires installation of (4) 10d nails in optional nail holes.
5. LGT4 — F₂ factored resistance requires installation of (7) 10d nails in optional nail holes.
6. MGT can be installed with straps vertical for full table value provided (26) 10d nails are installed to either a solid header or minimum double 2x6 web.
7. Nails: 10d = 0.148" dia. x 3" long. See pp. 22–23 for other nail sizes and information.



Typical MGT
Installation with HDU4



Typical VGTR Single
Installation with HDU2



Typical VGT Double
Installation with HDU4s