



TAMARACK
ROOF TRUSSES INC.

Job Track: **51004**

Plan Log: **203118**

Layout ID: **411168**

Builder / Location: **ROYAL PINE HOMES / RICHMOND HILL**

Project: **CENTREFIELD**

Date: **2021-05-27**

Sales: **Mario DiCiano**

Designer: **JG**

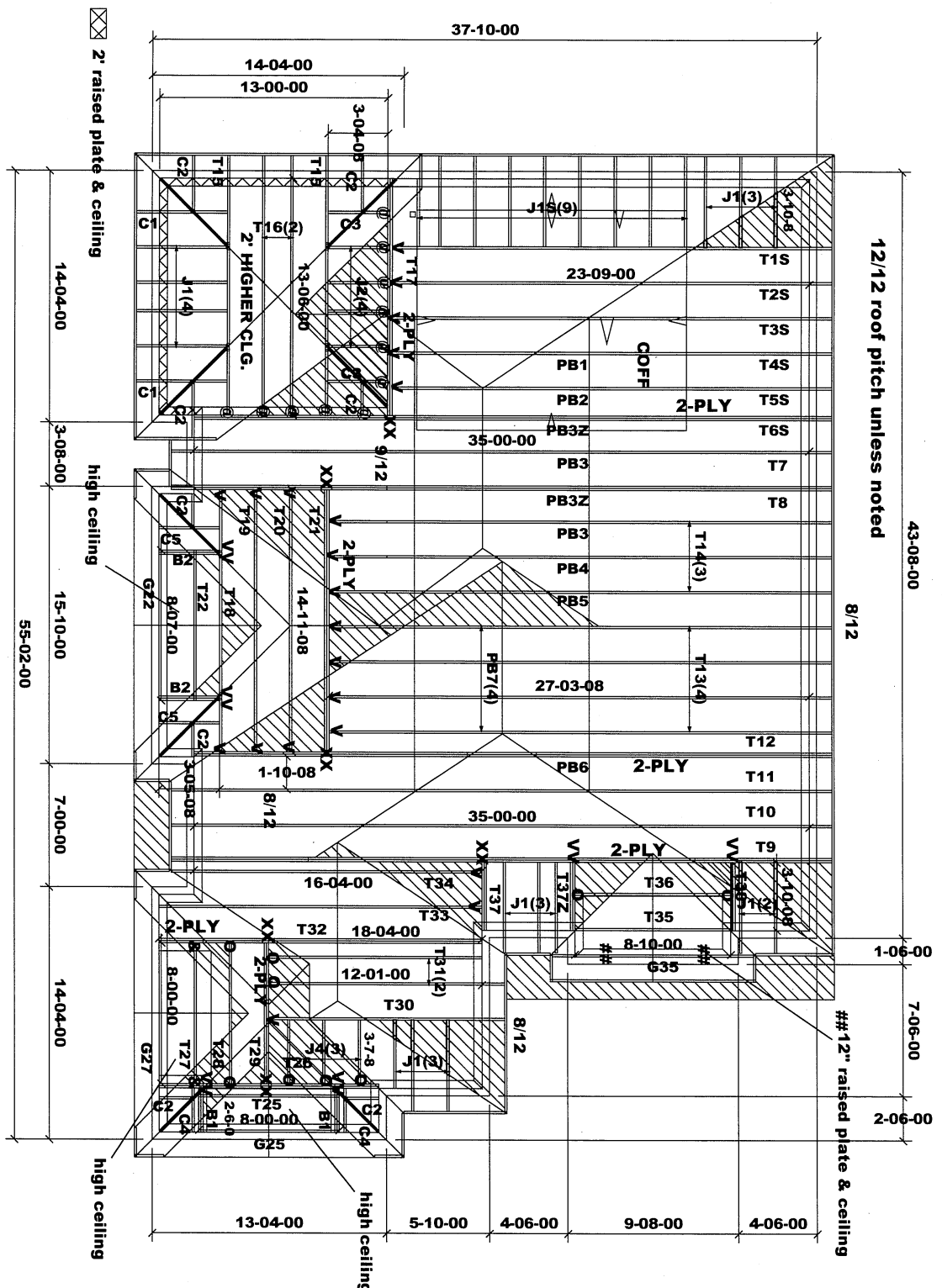
Model / Elevation: **UNIT 4506 / A**

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Milek ver 8.4.2.286

M14009

@ Build 2' knee wall to BC of T6S and T17
& Build 12" knee wall to BC of T26 and T32



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

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

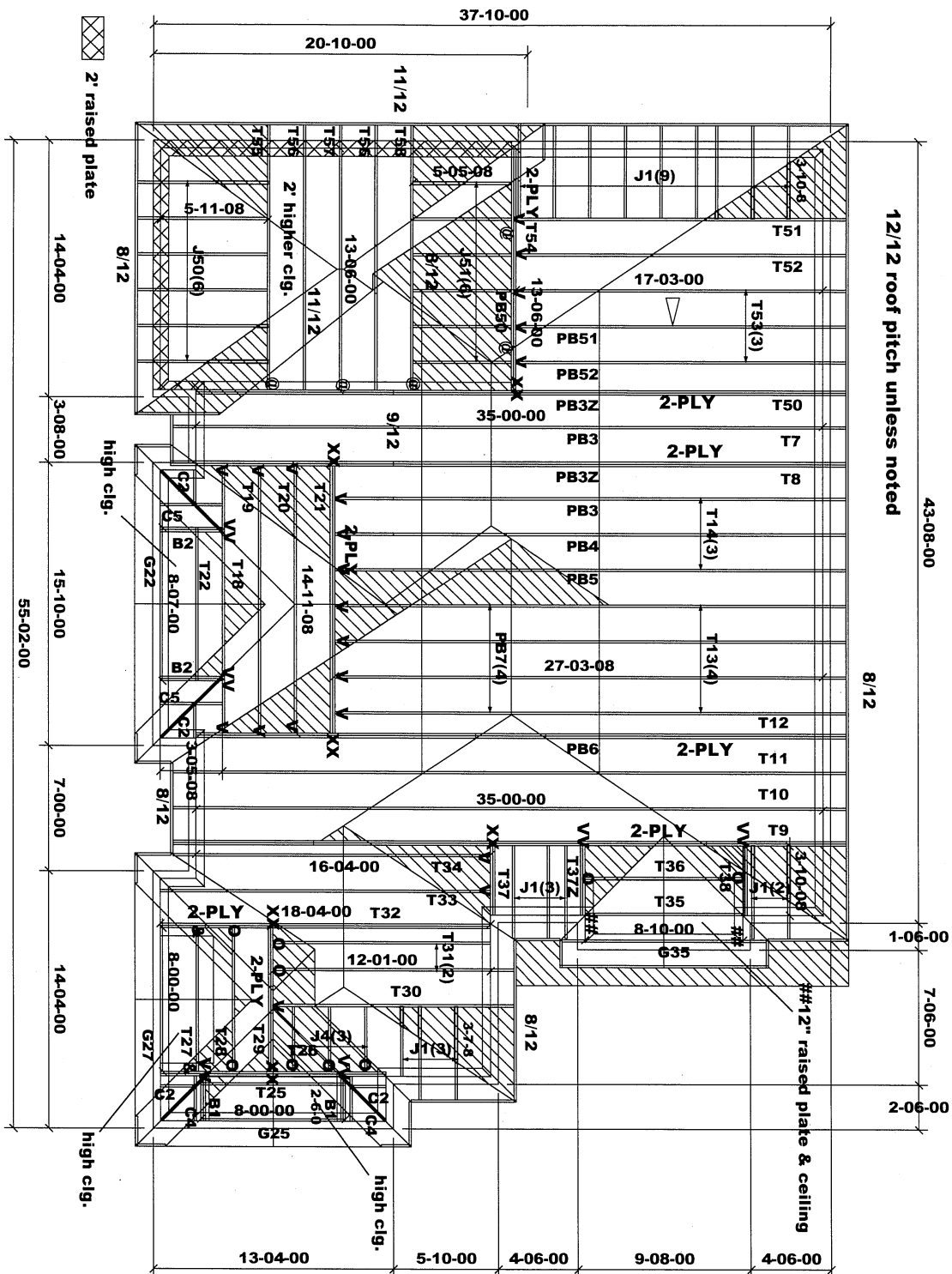
DESIGN CONFORMS WITH OBC 2012 (2019 amendment) OCCUPANCY: RESIDENTIAL | PART: 9
Ss = 31.35 psf | Sr = 8.4 psf

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

HARDWARE:
LUS24 - (O)
LUS26DS - (V)
LUS26-2 - (VV)
HGUS26-2 - (XX)

BEAMS:
B1 = B2 = 2 - 2x10 SPF #2


NOTES:
CONVENTIONAL FRAMING



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

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

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

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

HARDWARE:
LUS24 - (O)
LUS26DS - (V)
HUS26-2 - (W)
HUS26-2 - (XX)

BEAMS:
B1 = B2 =
2 - 2x10 SPF #2

DENOTES:
CONVENTIONAL
FRAMING

@ Build 2' knee wall to BC of T50 and T54
& Build 12" knee wall to BC of T26 and T32

M14009

 Job Track: 51004 Plan Log: 203118 Layout ID: 411169	Builder / Location: ROYAL PINE HOMES / RICHMOND HILL Project: CENTREFIELD Date: 2021-05-27 Sales: Mario DiCiano Designer: JG	Model / Elevation: UNIT 4506 / A-Opt.5 BR 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. Milek ver 6.4.2.286
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Job Track:	51004
Plan Log:	203118
Layout ID:	411170

Builder / Location:		ROYAL PINE HOMES / RICHMOND HILL	
Project: CENTREFIELD			
Date:	2021-06-27	Sales:	Mario DiCiano
		Designer:	J.G
		THESE DRAWINGS ARE REDIST. TAMARACK	

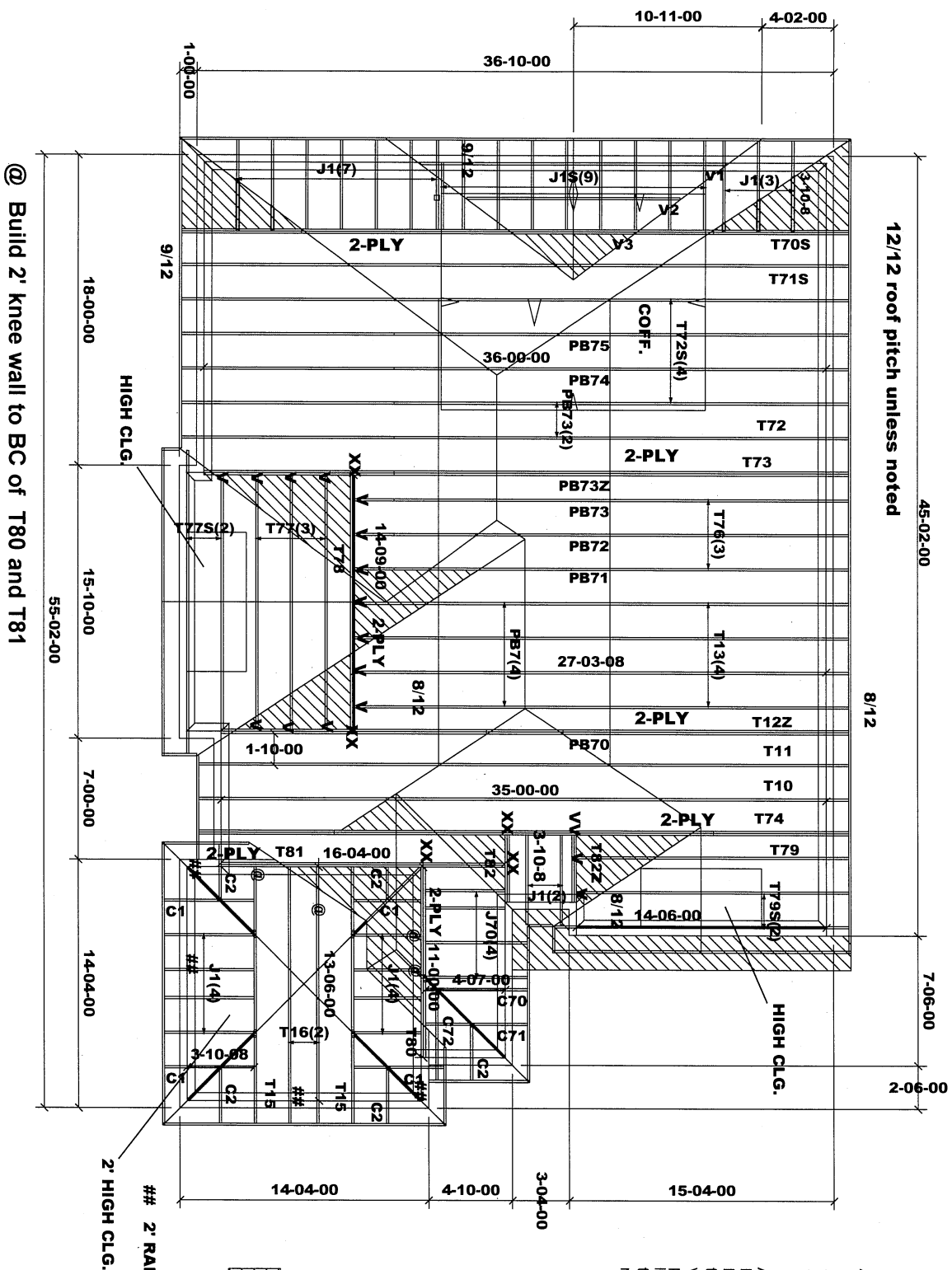
Model / Elevation:

UNIT 4506 / B

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

Milpex ver 6.4 2 2021

Mitek ver 8.4.2.286



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:

 $S_s = 31.35 \text{ psf} \mid S_r = 8.4 \text{ psf}$

DESIGN LOADS:

TCSL = 25.6 psf

TCDL = 6.0 psf

BCCL = 0.0 psf
BCDL = 7.4 psf

HARDWARE:

LUS24 - (O)

LJS26DS - (N)
LUS26-2- (W)

HGUS26-2 - (XX)

DENOTES:
CONVENTIONAL
FRAMING

2' RAISED PLATE

2' HIGH CLG.



TAMARACK
ROOF TRUSSES, INC.

Job Track: **51004**

Plan Log: **203118**

Layout ID: **411171**

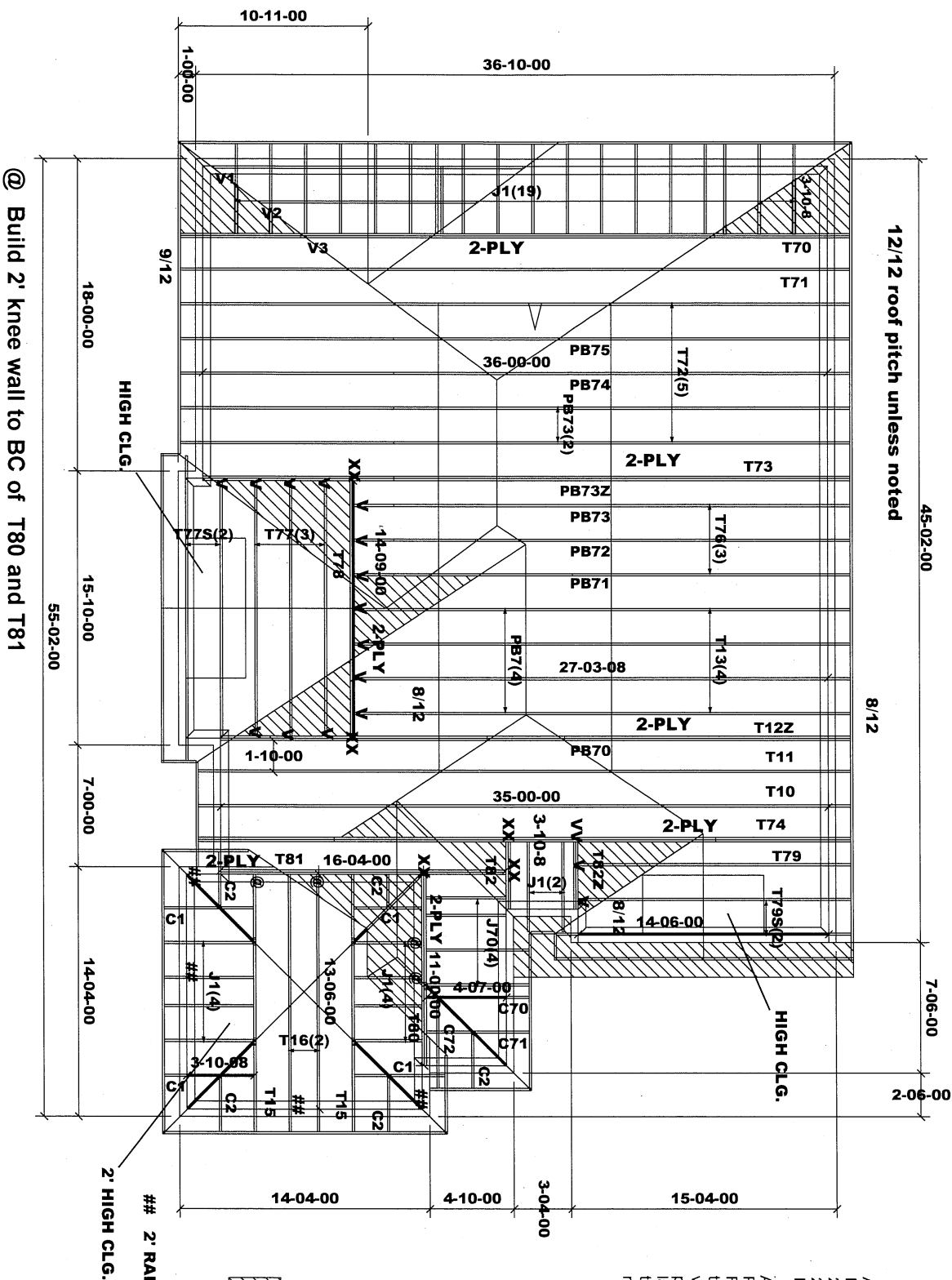
Builder / Location:
ROYAL PINE HOMES / RICHMOND HILL
Project: CENTREFIELD

Model / Elevation:

UNIT 4506 / B-OPT.5 BR

NOTE THE PROPERTY OF TAMARACK ROOF TRUSSES
MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN
INC AND WILL BE RETRACTED BY TAMARACK ROOF

3. SHALL NOT BE REPRODUCED, PUBLISHED,
IN THE MANUFACTURE OF TRUSSES BY
TRUSSES INC IF UTILIZED FOR ANY OTHER
Milex ver R 4.2 2006



DENOTES:
CONVENTIONAL
FRAMING

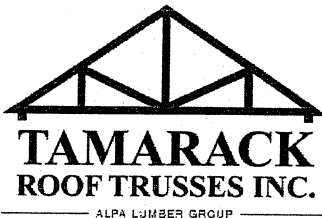
HARDWARE:
LUS24 - (O)
LUS26DS - (V)
LUS26-2 - (W)
HGUS26-2 - (XX)

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

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'.

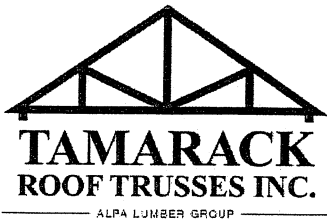
ASPHALT SHINGLES
FINISHED OVERHANG: 12"
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD
HEEL: R.T.M.C.

Mitek ver 8.4.2.286

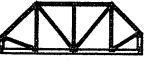
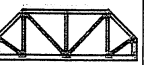
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4506 Lot #: Elevation: A	Job Track: 51004 PlanLog: 203118 Layout ID: 411168 Ref # Page: 1 of 5 Date: 05-27-2021 Designer: Sales Rep: Mario DiCano		

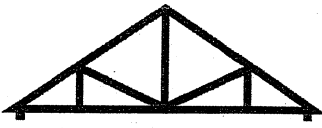
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T1S Half Hip Girder	8 /12	23-09-00	5-09-00	2 x 4 2 x 6	1-03-08	1-04-13 5-09-00	133.07 82.83		
	1	T2S Half Hip	8 /12	23-09-00	7-09-00	2 x 4	1-03-08	1-04-13 7-09-00	129.11 83.83		
	1	T3S Half Hip	8 /12	23-09-00	9-09-00	2 x 4	1-03-08	1-04-13 9-09-00	141.96 91.50		
	1	T4S Piggyback Base	8 /12	23-09-00	9-09-00	2 x 4	1-03-08	1-04-13 9-09-00	141.98 91.50		
	1	T5S Piggyback Base	8 /12	23-09-00	9-09-00	2 x 4	1-03-08	1-04-13 9-09-00	141.98 91.50		
	1 2-ply	T6S Piggyback Base Girder	8 /12	35-00-00	9-09-00	2 x 4 2 x 6	1-03-08	1-04-13 1-06-04	413.4 257.00		
	1	T7 Piggyback Base	8 /12	35-00-00	9-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-06-04	168.93 106.17		
	1 2-ply	T8 Piggyback Base Girder	8 /12	35-00-00	9-09-04	2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	451.82 269.67		
	1 2-ply	T9 Hip Girder	8 /12	35-00-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	346.31 211.00		
	1	T10 Hip	8 /12	35-00-00	7-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	155.83 98.33		
	1	T11 Hip	8 /12	35-00-00	9-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	168.57 105.33		
	1 2-ply	T12 Piggyback Base Girder	8 /12	35-00-00	9-09-02	2 x 6	1-03-08	1-04-13 1-04-13	441 265.33		
	4	T13 Piggyback Base	8 /12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 6-06-08	576.01 360.67		
	3	T14 Piggyback Base	8 /12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 7-03-10	436.56 272.50		

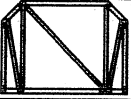
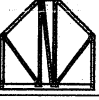
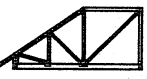
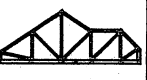
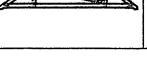
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER						Job Track: 51004	
	Builder: ROYAL PINE HOMES						PlanLog: 203118	
	Project: CENTREFIELD						Layout ID: 411168	
	Location: RICHMOND HILL						Ref #	
	Model: UNIT 4506						Page: 2 of 5	
Lot #:						Date: 05-27-2021		
Elevation: A						Designer:		
						Sales Rep: Mario DiCano		

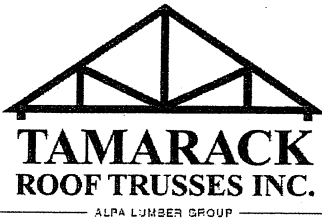
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	T15 Hip Girder	12 /12	13-06-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-10-08 1-10-08	161.48 100.33		
	2	T16 Hip	12 /12	13-06-00	7-09-00	2 x 4	1-03-08 1-03-08	1-10-08 1-10-08	146.45 94.00		
	1 2-ply	T17 Half Hip Girder	12 /12	13-06-00	9-09-04	2 x 4 2 x 6		1-10-08 9-09-04	187.98 117.67		
	1	T18 Hip Girder	12 /12	14-11-08	5-04-00	2 x 4 2 x 6		1-07-08 2-02-00	79.37 50.83		
	1	T19 Hip	12 /12	14-11-08	7-04-00	2 x 4		1-07-08 2-02-00	69.29 44.33		
	1	T20 Common	12 /12	14-11-08	9-04-08	2 x 4		1-07-08 2-02-00	71.85 46.00		
	1 2-ply	T21 Flat Girder	0 /12	14-11-08	6-04-08	2 x 6		6-04-08 6-04-08	198.8 124.00		
	1	T22 Common	12 /12	8-07-00	6-08-08	2 x 4		2-05-00 2-05-00	40.89 27.83		
	1	G22 GABLE	12 /12	8-07-00	6-08-08	2 x 4		2-05-00 2-05-00	44.95 30.83		
	1	T25 Common	12 /12	8-00-00	5-05-08	2 x 4		1-05-08 1-05-08	35.06 22.50		
	1	G25 GABLE	12 /12	8-00-00	5-05-08	2 x 4		1-05-08 1-05-08	36.72 23.50		
	1 2-ply	T26 Hip Girder	12 /12	12-06-00	4-04-08	2 x 4 2 x 6		1-10-08 1-10-08	132.01 85.33		
	1	T27 Common	12 /12	8-00-00	5-11-08	2 x 4		1-11-08 1-11-08	36.88 23.00		
	1	G27 GABLE	12 /12	8-00-00	5-11-08	2 x 4		1-11-08 1-11-08	39.59 26.00		

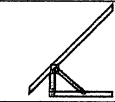
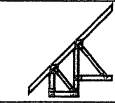
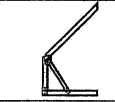
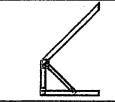
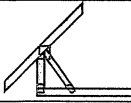
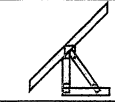
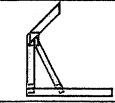
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST					
	Lumber Yard: TAMARACK LUMBER				Job Track: 51004	
	Builder: ROYAL PINE HOMES				PlanLog: 203118	
	Project: CENTREFIELD				Layout ID: 411168	
	Location: RICHMOND HILL				Ref #	
	Model: UNIT 4506				Page: 3 of 5	
Lot #:				Date: 05-27-2021		
Elevation: A				Designer:		
				Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T28 Hip	12 /12	8-00-00	5-10-08	2 x 4		4-07-08 4-07-08	51.56 35.00		
	1 2-ply	T29 Hip Girder	12 /12	8-00-00	7-10-08	2 x 4 2 x 6		4-07-08 4-07-08	124.17 81.33		
	1	T30 Half Hip Girder	8 /12	12-01-00	5-09-00	2 x 4 2 x 6	1-03-08	1-04-13 5-09-00	64.3 41.00		
	2	T31 Common	8 /12	12-01-00	6-10-02	2 x 4		1-04-13 4-02-13	111.68 72.33		
	1 2-ply	T32 Roof Special Girder	8 /12	18-04-00	6-10-02	2 x 4 2 x 6		1-04-13 1-10-08	188.01 122.00		
	1	T33 Roof Special	8 /12	18-04-00	6-10-02	2 x 4		1-04-13 1-10-08	76.13 51.50		
	1	T34 Common	8 /12	16-04-00	6-10-02	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	72.78 45.67		
	1	T35 Common	12 /12	8-10-00	5-03-08	2 x 4		10-08 10-08	36.36 24.17		
	1	G35 GABLE	12 /12	8-10-00	6-01-07	2 x 4	1-03-08 1-03-08	10-08 10-08	38.32 24.83		
	1	T36 Common	12 /12	8-10-00	6-03-08	2 x 4		1-10-08 1-10-08	39.84 26.00		
	1 2-ply	T37 Jack-Closed Girder	12 /12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	46.9 29.33		
	1 2-ply	T37Z Jack-Closed Girder	12 /12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	46.9 29.33		
	1 2-ply	T38 Half Hip Girder	12 /12	3-10-08	4-02-13	2 x 4 2 x 6		1-10-08 4-02-13	52.08 35.00		
	1	PB1 Piggyback	8 /12	11-02-12	2-00-00	2 x 4		2-08	32.45 21.67		

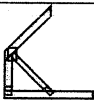
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4506 Lot #: Elevation: A	Job Track: 51004 PlanLog: 203118 Layout ID: 411168 Ref # Page: 4 of 5 Date: 05-27-2021 Designer: Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	PB2 Piggyback	8 /12	11-02-12	4-00-12	2 x 4		2-08	29.99 19.33		
	2	PB3 Piggyback	8 /12	11-06-01	4-00-12	2 x 4			60.48 38.67		
	2 2-ply	PB3Z Piggyback	8 /12	11-06-01	4-00-12	2 x 4			120.96 77.33		
	1	PB4 Piggyback	8 /12	11-06-01	3-06-00	2 x 4			34.16 22.33		
	1	PB5 Piggyback	8 /12	11-06-01	1-06-00	2 x 4			33.18 22.17		
	1 2-ply	PB6 Piggyback	8 /12	9-11-07	2-00-00	2 x 4			55.11 36.00		
	4	PB7 Piggyback	8 /12	9-11-07	3-03-13	2 x 4			101.48 62.00		
	15	J1 Jack-Open	12 /12	3-10-08	5-09-00	2 x 4	1-03-08	1-10-08 5-09-00	250.23 162.50		
	9	J1S Jack-Open	12 /12	3-10-08	5-09-00	2 x 4	1-03-08	1-10-08 4-09-00	196.52 130.50		
	4	J2 Jack-Open	12 /12	3-04-08	5-09-00	2 x 4		2-04-08 5-09-00	55.24 38.00		
	3	J4 Jack-Open	12 /12	3-07-08	5-09-00	2 x 4		2-01-08 5-09-00	42.96 28.50		
	2	C1 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 2-01-01	1-10-08 3-07-15	25.84 16.67		
	8	C2 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 1-01	1-10-08 3-07-15	85.1 56.00		
	2	C3 Jack-Open	12 /12	3-04-08	3-07-15	2 x 4		2-04-08 5-09-00	20.71 15.00		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4506 Lot #: Elevation: A	Job Track: 51004 PlanLog: 203118 Layout ID: 411168 Ref # Page: 5 of 5 Date: 05-27-2021 Designer: Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	C4 Jack-Open	12 / 12	2-06-00	3-07-15	2 x 4		1-10-08 4-04-08	18.97 13.67		
	2	C5 Jack-Open	12 / 12	3-05-08	3-07-15	2 x 4		1-10-08 5-04-00	21.15 15.00		

TOTAL # TRUSS= 124

TOTAL BFT OF ALL TRUSSES= 4596.14 BFT.

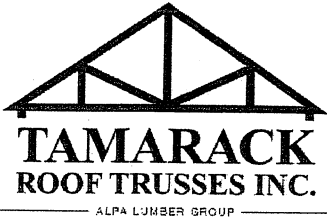
TOTAL WEIGHT OF ALL TRSSES 7261.41 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
5	Hardware	HGUS26-2	
21	Hardware	LJS26DS	
9	Hardware	LUS24	
7	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 42

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4506
 Lot #:
 Elevation: A-OPT.5 BR

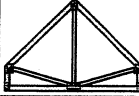
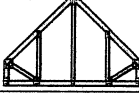
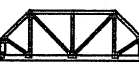
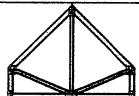
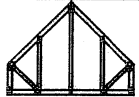
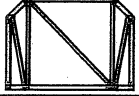
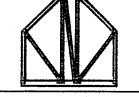
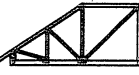
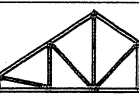
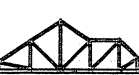
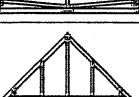
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 PlanLog: 203118
 Layout ID: 411169
 Ref #
 Page: 1 of 5
 Date: 05-27-2021
 Designer:
 Sales Rep: Mario DiCano

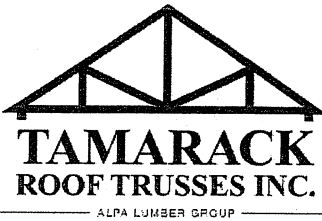
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T7 Piggyback Base	8 / 12	35-00-00	9-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-06-04	168.93 106.17		
	1 2-ply	T8 Piggyback Base Girder	8 / 12	35-00-00	9-09-04	2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	451.82 269.67		
	1 2-ply	T9 Hip Girder	8 / 12	35-00-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	346.31 211.00		
	1	T10 Hip	8 / 12	35-00-00	7-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	155.83 98.33		
	1	T11 Hip	8 / 12	35-00-00	9-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	168.57 105.33		
	1 2-ply	T12 Piggyback Base Girder	8 / 12	35-00-00	9-09-02	2 x 6	1-03-08	1-04-13 1-04-13	441 265.33		
	4	T13 Piggyback Base	8 / 12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 6-06-08	576.01 360.67		
	3	T14 Piggyback Base	8 / 12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 7-03-10	436.56 272.50		
	1	T18 Hip Girder	12 / 12	14-11-08	5-04-00	2 x 4 2 x 6		1-07-08 2-02-00	79.37 50.83		
	1	T19 Hip	12 / 12	14-11-08	7-04-00	2 x 4		1-07-08 2-02-00	69.29 44.33		
	1	T20 Common	12 / 12	14-11-08	9-04-08	2 x 4		1-07-08 2-02-00	71.85 46.00		
	1 2-ply	T21 Flat Girder	0 / 12	14-11-08	6-04-08	2 x 6		6-04-08 6-04-08	198.8 124.00		
	1	T22 Common	12 / 12	8-07-00	6-08-08	2 x 4		2-05-00 2-05-00	40.89 27.83		
	1	G22 GABLE	12 / 12	8-07-00	6-08-08	2 x 4		2-05-00 2-05-00	44.95 30.83		

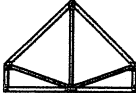
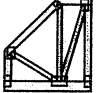
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4506 Lot #: Elevation: A-OPT.5 BR	Job Track: 51004 PlanLog: 203118 Layout ID: 411169 Ref # Page: 2 of 5 Date: 05-27-2021 Designer: Sales Rep: Mario DiCano		

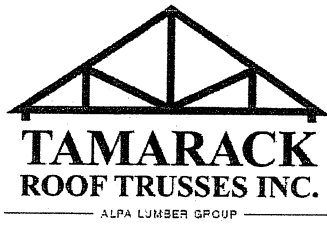
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T25 Common	12 / 12	8-00-00	5-05-08	2 x 4		1-05-08 1-05-08	35.06 22.50		
	1	G25 GABLE	12 / 12	8-00-00	5-05-08	2 x 4		1-05-08 1-05-08	36.72 23.50		
	1 2-ply	T26 Hip Girder	12 / 12	12-06-00	4-04-08	2 x 4 2 x 6		1-10-08 1-10-08	132.01 85.33		
	1	T27 Common	12 / 12	8-00-00	5-11-08	2 x 4		1-11-08 1-11-08	36.88 23.00		
	1	G27 GABLE	12 / 12	8-00-00	5-11-08	2 x 4		1-11-08 1-11-08	39.59 26.00		
	1	T28 Hip	12 / 12	8-00-00	5-10-08	2 x 4		4-07-08 4-07-08	51.56 35.00		
	1 2-ply	T29 Hip Girder	12 / 12	8-00-00	7-10-08	2 x 4 2 x 6		4-07-08 4-07-08	124.17 81.33		
	1	T30 Half Hip Girder	8 / 12	12-01-00	5-09-00	2 x 4 2 x 6	1-03-08	1-04-13 5-09-00	64.3 41.00		
	2	T31 Common	8 / 12	12-01-00	6-10-02	2 x 4		1-04-13 4-02-13	112.26 73.33		
	1 2-ply	T32 Roof Special Girder	8 / 12	18-04-00	6-10-02	2 x 4 2 x 6		1-04-13 1-10-08	188.01 122.00		
	1	T33 Roof Special	8 / 12	18-04-00	6-10-02	2 x 4		1-04-13 1-10-08	76.12 51.50		
	1	T34 Common	8 / 12	16-04-00	6-10-02	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	72.78 45.67		
	1	T35 Common	12 / 12	8-10-00	5-03-08	2 x 4		10-08 10-08	36.36 24.17		
	1	G35 GABLE	12 / 12	8-10-00	6-01-07	2 x 4	1-03-08 1-03-08	10-08 10-08	38.32 24.83		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST				
	Lumber Yard: TAMARACK LUMBER				Job Track: 51004
	Builder: ROYAL PINE HOMES				PlanLog: 203118
	Project: CENTREFIELD				Layout ID: 411169
	Location: RICHMOND HILL				Ref #
	Model: UNIT 4506				Page: 3 of 5
Lot #:				Date: 05-27-2021	
Elevation: A-OPT.5 BR				Designer:	
				Sales Rep: Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T36 Common	12 /12	8-10-00	6-03-08	2 x 4		1-10-08 1-10-08	39.84 26.00		
	1 2-ply	T37 Jack-Closed Girder	12 /12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	46.9 29.33		
	1 2-ply	T37Z Jack-Closed Girder	12 /12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	46.9 29.33		
	1 2-ply	T38 Half Hip Girder	12 /12	3-10-08	4-02-13	2 x 4 2 x 6		1-10-08 4-02-13	52.08 35.00		
	1 2-ply	T50 Piggyback Base Girder	8 /12	35-00-00	9-09-02	2 x 6	1-03-08	1-04-13 1-06-04	466.8 278.67		
	1	T51 Half Hip Girder	8 /12	17-03-00	5-09-00	2 x 4 2 x 6	1-03-08	1-04-13 5-09-00	89.26 54.83		
	1	T52 Half Hip	8 /12	17-03-00	7-09-00	2 x 4	1-03-08	1-04-13 7-09-00	83.71 54.17		
	3	T53 Half Hip	8 /12	17-03-00	9-09-00	2 x 4	1-03-08	1-04-13 9-09-00	270.66 170.50		
	1 2-ply	T54 Piggyback Base Girder	12 /12	13-06-00	9-09-00	2 x 4 2 x 6		1-10-08 9-09-00	176.23 108.67		
	1	T55 Hip Girder	11 /12	13-06-00	5-04-08	2 x 4 2 x 6	1-03-08 1-03-08	1-09-01 1-09-01	78.06 50.17		
	2	T56 Hip	11 /12	13-06-00	6-08-08	2 x 4	1-03-08 1-03-08	1-09-01 1-09-01	133.46 87.67		
	1	T57 Common	11 /12	13-06-00	7-11-05	2 x 4	1-03-08 1-03-08	1-09-01 1-09-01	66.99 44.00		
	1	T58 Half Hip Girder	11 /12	13-06-00	5-04-08	2 x 4 2 x 6	1-03-08	1-09-01 5-04-08	72.12 45.33		
	2	PB3 Piggyback	8 /12	11-06-01	4-00-12	2 x 4			60.48 38.67		



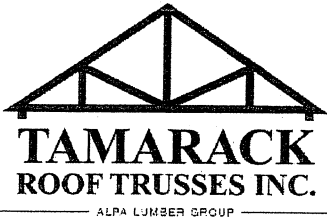
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4506
 Lot #:
 Elevation: A-OPT.5 BR

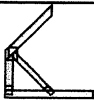
Job Track: 51004
 PlanLog: 203118
 Layout ID: 411169
 Ref #
 Page: 4 of 5
 Date: 05-27-2021
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2 2-ply	PB3Z Piggyback	8 /12	11-06-01	4-00-12	2 x 4			120.96 77.33		
	1	PB4 Piggyback	8 /12	11-06-01	3-06-00	2 x 4			34.16 22.33		
	1	PB5 Piggyback	8 /12	11-06-01	1-06-00	2 x 4			33.18 22.17		
	1 2-ply	PB6 Piggyback	8 /12	9-11-07	2-00-00	2 x 4			55.11 36.00		
	4	PB7 Piggyback	8 /12	9-11-07	3-03-13	2 x 4			101.48 62.00		
	1 2-ply	PB50 Piggyback	12 /12	5-07-08	3-01-13	2 x 4		3-01-13	42.03 29.67		
	1	PB51 Piggyback	8 /12	4-08-12	2-00-00	2 x 4		2-00-00	14.6 10.00		
	1	PB52 Piggyback	8 /12	4-08-12	3-01-13	2 x 4		3-01-13	13.74 8.67		
	17	J1 Jack-Open	12 /12	3-10-08	5-09-00	2 x 4	1-03-08	1-10-08 5-09-00	283.59 184.17		
	3	J4 Jack-Open	12 /12	3-07-08	5-09-00	2 x 4		2-01-08 5-09-00	42.96 28.50		
	6	J50 Jack-Open	8 /12	5-11-08	5-04-08	2 x 4	1-03-08	1-04-13 5-04-08	118.71 73.00		
	6	J51 Jack-Open	8 /12	5-05-08	5-04-08	2 x 4		1-08-13 5-04-08	103.49 69.00		
	4	C2 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 1-01	1-10-08 3-07-15	42.55 28.00		
	2	C4 Jack-Open	12 /12	2-06-00	3-07-15	2 x 4		1-10-08 4-04-08	18.97 13.67		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4506 Lot #: Elevation: A-OPT.5 BR	Job Track: 51004 PlanLog: 203118 Layout ID: 411169 Ref # Page: 5 of 5 Date: 05-27-2021 Designer: Sales Rep: Mario DiCano

Roof Trusses

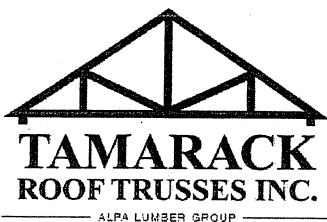
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	C5 Jack-Open	12 /12	3-05-08	3-07-15	2 x 4		1-10-08 5-04-00	21.15 15.00		

TOTAL # TRUSS= 120 TOTAL BFT OF ALL TRUSSES= 4423.83 BFT. TOTAL WEIGHT OF ALL TRSSES 7024.47 LBS

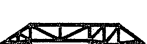
HARDWARE

QTY	TYPE	MODEL	LENGTH
21	Hardware	LJS26DS	
9	Hardware	LUS24	
7	Hardware	LUS26-2	
5	Hardware	HGUS26-2	

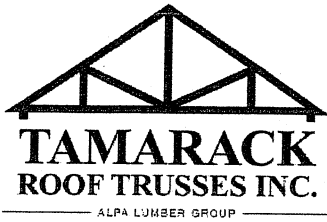
TOTAL NUMBER OF ITEMS= 42

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4506 Lot #: Elevation: B	Job Track: 51004 PlanLog: 203118 Layout ID: 411170 Ref # Page: 1 of 4 Date: 05-27-2021 Designer: Sales Rep: Mario DiCano		

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T10 Hip	8 /12	35-00-00	7-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	155.83 98.33		
	1	T11 Hip	8 /12	35-00-00	9-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	168.57 105.33		
	1 2-ply	T12Z Piggyback Base Girder	8 /12	35-00-00	9-09-02	2 x 6	1-03-08	1-04-13 1-04-13	474.67 281.33		
	4	T13 Piggyback Base	8 /12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 6-06-08	576.01 360.67		
	2	T15 Hip Girder	12 /12	13-06-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-10-08 1-10-08	153.5 95.33		
	2	T16 Hip	12 /12	13-06-00	7-09-00	2 x 4	1-03-08 1-03-08	1-10-08 1-10-08	146.45 94.00		
	1 2-ply	T70S Hip Girder	8 /12	36-00-00	5-09-04	2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	462.08 276.67		
	1	T71S Hip	8 /12	36-00-00	7-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	204.93 126.33		
	1	T72 Piggyback Base	8 /12	36-00-00	9-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	194.97 118.83		
	4	T72S Hip	8 /12	36-00-00	9-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	861.6 526.67		
	1 2-ply	T73 Piggyback Base Girder	8 /12	36-00-00	9-09-02	2 x 6	1-03-08	1-04-13 1-06-04	492.25 300.00		
	1 2-ply	T74 Hip Girder	8 /12	35-00-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	352.53 216.00		
	3	T76 Piggyback Base	8 /12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 8-00-10	441.17 274.50		
	3	T77 Common	12 /12	14-09-00	9-04-08	2 x 4		2-00-00 2-00-00	215.75 137.50		

DELIVERY SHIPLIST

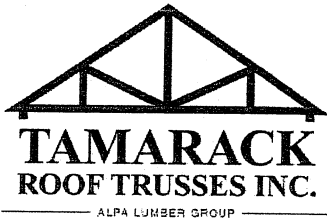


Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4506
 Lot #:
 Elevation: B

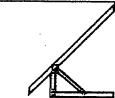
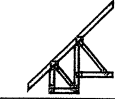
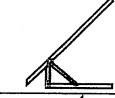
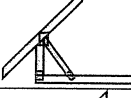
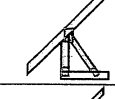
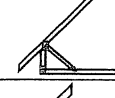
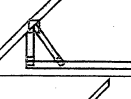
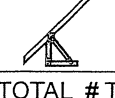
Job Track: 51004
 PlanLog: 203118
 Layout ID: 411170
 Ref #
 Page: 2 of 4
 Date: 05-27-2021
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	T77S Roof Special	12 / 12	14-09-00	9-04-08	2 x 4	1-05-00 1-05-00	2-00-00 2-00-00	172.43 110.00		
	1 2-ply	T78 Flat Girder	0 / 12	14-09-00	6-04-08	2 x 6		6-04-08 6-04-08	217.75 134.67		
	1	T79 Common	8 / 12	14-06-00	6-02-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	62.39 39.00		
	2	T79S Roof Special	8 / 12	14-06-00	6-02-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	146.22 96.33		
	1 2-ply	T80 Half Hip Girder	12 / 12	11-00-00	6-05-08	2 x 4 2 x 6		1-10-08 6-05-08	134.28 85.67		
	1 2-ply	T81 Roof Special Girder	8 / 12	16-04-00	8-01-08	2 x 4 2 x 6		1-04-13 1-10-08	173.89 112.67		
	1 2-ply	T82 Jack-Closed Girder	12 / 12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	57.95 37.67		
	1 2-ply	T82Z Jack-Closed Girder	12 / 12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	57.95 37.67		
	4	PB7 Piggyback	8 / 12	9-11-07	3-03-13	2 x 4			101.48 62.00		
	1 2-ply	PB70 Piggyback	8 / 12	9-11-07	1-10-00	2 x 4			55.02 38.33		
	1	PB71 Piggyback	8 / 12	12-06-01	1-06-00	2 x 4			36.25 23.50		
	1	PB72 Piggyback	8 / 12	12-06-01	3-06-00	2 x 4			36.86 23.67		
	3	PB73 Piggyback	8 / 12	12-06-01	4-04-15	2 x 4			99.19 62.00		
	1 2-ply	PB73Z Piggyback	8 / 12	12-06-01	4-04-15	2 x 4			66.13 41.33		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST						
	Lumber Yard: TAMARACK LUMBER						Job Track: 51004
	Builder: ROYAL PINE HOMES						PlanLog: 203118
	Project: CENTREFIELD						Layout ID: 411170
	Location: RICHMOND HILL						Ref #
	Model: UNIT 4506						Page: 3 of 4
Lot #:						Date: 05-27-2021	
Elevation: B						Designer:	
						Sales Rep: Mario DiCano	

Roof Trusses

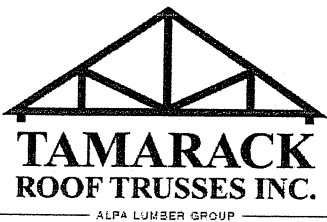
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	PB74 Piggyback	8 /12	12-06-01	4-00-00	2 x 4			35.23 23.33		
	1	PB75 Piggyback	8 /12	12-06-01	2-00-00	2 x 4			36.98 25.00		
	1	V1 Valley	9 /12	17-08-10	6-07-12	2 x 4			54.09 33.67		
	1	V2 Valley	9 /12	12-04-10	4-07-12	2 x 4			35.52 23.33		
	1	V3 Valley	9 /12	7-00-10	2-07-12	2 x 4			18.47 11.00		
	20	J1 Jack-Open	12 /12	3-10-08	5-09-00	2 x 4	1-03-08	1-10-08 5-09-00	333.63 216.67		
	9	J1S Jack-Open	12 /12	3-10-08	5-09-00	2 x 4	1-03-08	1-10-08 4-09-00	196.52 130.50		
	4	J70 Jack-Open	12 /12	4-07-00	6-05-08	2 x 4	1-03-08	1-10-08 6-05-08	74.53 48.67		
	4	C1 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 2-01-01	1-10-08 3-07-15	51.67 33.33		
	5	C2 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 1-01	1-10-08 3-07-15	53.19 35.00		
	1	C70 Jack-Open	12 /12	3-09-07	5-07-15	2 x 4	1-03-08 9-09	1-10-08 5-07-15	17.35 11.50		
	1	C71 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 2-09-09	1-10-08 3-07-15	13.73 9.00		
	1	C72 Jack-Open	12 /12	1-10-08	5-07-15	2 x 4	1-03-08 1-10-15	1-10-08 3-09-00	13.91 9.00		

TOTAL # TRUSS= 108

TOTAL BFT OF ALL TRUSSES= 4526

BFT.

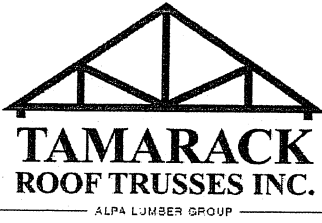
TOTAL WEIGHT OF ALL TRSSES 7252.9 LBS

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4506 Lot #: Elevation: B	Job Track: 51004 PlanLog: 203118 Layout ID: 411170 Ref # Page: 4 of 4 Date: 05-27-2021 Designer: Sales Rep: Mario DiCano

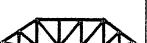
HARDWARE

QTY	TYPE	MODEL	LENGTH
6	Hardware	HGUS26-2	
16	Hardware	LJS26DS	
1	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 23

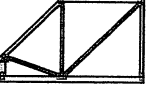
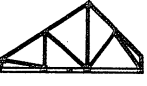
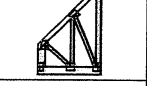
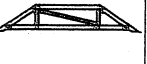
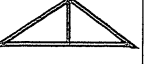
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER						Job Track: 51004	
	Builder: ROYAL PINE HOMES						PlanLog: 203118	
	Project: CENTREFIELD						Layout ID: 411171	
	Location: RICHMOND HILL						Ref #	
	Model: UNIT 4506						Page: 1 of 3	
Lot #:						Date: 05-27-2021		
Elevation: B-OPT.5 BR						Designer:		
						Sales Rep: Mario DiCano		

Roof Trusses

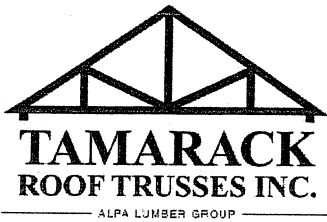
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T10 Hip	8 /12	35-00-00	7-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	155.83 98.33		
	1	T11 Hip	8 /12	35-00-00	9-09-00	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	168.57 105.33		
	1 2-ply	T12Z Piggyback Base Girder	8 /12	35-00-00	9-09-02	2 x 6	1-03-08	1-04-13 1-04-13	429.19 257.33		
	4	T13 Piggyback Base	8 /12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 6-06-08	576.01 360.67		
	2	T15 Hip Girder	12 /12	13-06-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-10-08 1-10-08	153.5 95.33		
	2	T16 Hip	12 /12	13-06-00	7-09-00	2 x 4	1-03-08 1-03-08	1-10-08 1-10-08	146.45 94.00		
	1 2-ply	T70 Roof Special Girder	8 /12	36-00-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	354.45 217.33		
	1	T71 Roof Special	8 /12	36-00-00	7-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	185.23 115.17		
	5	T72 Roof Special	8 /12	36-00-00	9-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-06-04	974.84 594.17		
	1 2-ply	T73 Piggyback Base Girder	8 /12	36-00-00	9-09-02	2 x 6	1-03-08	1-04-13 1-06-04	463.39 284.67		
	1 2-ply	T74 Hip Girder	8 /12	35-00-00	5-09-00	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	352.53 216.00		
	3	T76 Piggyback Base	8 /12	27-03-08	9-09-00	2 x 4	1-03-08	1-04-13 8-00-10	441.17 274.50		
	3	T77 Common	12 /12	14-09-00	9-04-08	2 x 4		2-00-00 2-00-00	215.75 137.50		
	2	T77S Roof Special	12 /12	14-09-00	9-04-08	2 x 4	1-05-00 1-05-00	2-00-00 2-00-00	172.43 110.00		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST			
	Lumber Yard: TAMARACK LUMBER	Job Track: 51004	PlanLog: 203118	
Builder: ROYAL PINE HOMES	Layout ID: 411171	Ref #		
Project: CENTREFIELD	Page: 2 of 3	Date: 05-27-2021		
Location: RICHMOND HILL	Designer:	Sales Rep: Mario DiCano		
Model: UNIT 4506				
Lot #:				
Elevation: B-OPT.5 BR				

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	T78 Flat Girder	0 /12	14-09-00	6-04-08	2 x 6		6-04-08 6-04-08	197.09 124.00		
	1	T79 Common	8 /12	14-06-00	6-02-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	62.39 39.00		
	2	T79S Roof Special	8 /12	14-06-00	6-02-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	146.22 96.33		
	1 2-ply	T80 Half Hip Girder	12 /12	11-00-00	6-05-08	2 x 4 2 x 6		1-10-08 6-05-08	117.58 74.67		
	1 2-ply	T81 Roof Special Girder	8 /12	16-04-00	8-01-08	2 x 4 2 x 6		1-04-13 1-10-08	173.89 112.67		
	1 2-ply	T82 Jack-Closed Girder	12 /12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	57.95 37.67		
	1 2-ply	T82Z Jack-Closed Girder	12 /12	3-10-08	5-09-00	2 x 4 2 x 6		1-10-08 5-09-00	57.95 37.67		
	4	PB7 Piggyback	8 /12	9-11-07	3-03-13	2 x 4			101.48 62.00		
	1 2-ply	PB70 Piggyback	8 /12	9-11-07	1-10-00	2 x 4			55.02 38.33		
	1	PB71 Piggyback	8 /12	12-06-01	1-06-00	2 x 4			36.25 23.50		
	1	PB72 Piggyback	8 /12	12-06-01	3-06-00	2 x 4			36.86 23.67		
	3	PB73 Piggyback	8 /12	12-06-01	4-04-15	2 x 4			99.19 62.00		
	1 2-ply	PB73Z Piggyback	8 /12	12-06-01	4-04-15	2 x 4			66.13 41.33		
	1	PB74 Piggyback	8 /12	12-06-01	4-00-00	2 x 4			35.23 23.33		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4506
 Lot #:
 Elevation: B-OPT.5 BR

Job Track: 51004
 PlanLog: 203118
 Layout ID: 411171
 Ref #
 Page: 3 of 3
 Date: 05-27-2021
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	PB75 Piggyback	8 /12	12-06-01	2-00-00	2 x 4			36.98 25.00		
	1	V1 Valley	9 /12	17-08-11	6-07-12	2 x 4			54.11 33.67		
	1	V2 Valley	9 /12	12-04-11	4-07-12	2 x 4			35.54 23.33		
	1	V3 Valley	9 /12	7-00-11	2-07-12	2 x 4			18.49 11.00		
	29	J1 Jack-Open	12 /12	3-10-08	5-09-00	2 x 4	1-03-08	1-10-08 5-09-00	483.77 314.17		
	4	J70 Jack-Open	12 /12	4-07-00	6-05-08	2 x 4	1-03-08	1-10-08 6-05-08	74.53 48.67		
	4	C1 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 2-01-01	1-10-08 3-07-15	51.67 33.33		
	5	C2 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 1-01	1-10-08 3-07-15	53.19 35.00		
	1	C70 Jack-Open	12 /12	3-09-07	5-07-15	2 x 4	1-03-08 9-09	1-10-08 5-07-15	17.35 11.50		
	1	C71 Jack-Open	12 /12	1-09-07	3-07-15	2 x 4	1-03-08 2-09-09	1-10-08 3-07-15	13.73 9.00		
	1	C72 Jack-Open	12 /12	1-10-08	5-07-15	2 x 4	1-03-08 1-10-15	1-10-08 3-09-00	13.91 9.00		

TOTAL # TRUSS= 108

TOTAL BFT OF ALL TRUSSES= 4310.17

BFT.

TOTAL WEIGHT OF ALL TRSSES 6885.8 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
6	Hardware	HGUS26-2	
16	Hardware	LJS26DS	
1	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 23

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T1S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:08 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-DirXsFtCXnh2apCSYWpI319y OwzQrsRWEVNaAzCwT

LOADING

TOTAL LOAD CASES: (4)

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		
M-AJ	0 / 569	-18.5 -18.5	0.19 (1)	10.00			
AJ-AK	0 / 569	-18.5 -18.5	0.19 (1)	10.00			
AK-L	0 / 569	-18.5 -18.5	0.19 (1)	10.00			
K-L	0 / 13	0.0 0.0	0.09 (1)	10.00			
L-H	-1748 / 0	0.0 0.0	0.63 (1)	6.12			
K-J	0 / 60	-18.5 -18.5	0.01 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-6-4	-38	-38	---	FRONT	VERT	DEAD	---	C1
D	6-6-4	-165	-165	---	FRONT	VERT	SNOW	---	C1
F	17-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
H	22-3-4	-4	-4	---	FRONT	VERT	TOTAL	---	C1
L	22-5-12	-59	-59	---	TOP	VERT	TOTAL	---	C1
M	17-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
P	7-0-0	-58	-58	---	TOP	VERT	TOTAL	---	C1
T	5-11-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
U	7-0-12	-18	-18	---	FRONT	VERT	TOTAL	---	C1
V	9-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
W	11-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
X	13-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
Y	15-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
Z	19-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AA	21-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AB	1-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AC	3-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AD	5-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AF	9-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AG	11-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AH	13-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AI	15-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AJ	19-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AK	21-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2115628 *W*

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:09 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz BuP-hyPw3btql5pvCzme6DKXcFi7boLb9J?akuFw6czCvYs

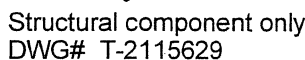


TOTAL WEIGHT = 131 lb

DRY: SEASONED LUMBER.

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

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



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

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

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.54 FT. OR RIGID CEILING

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

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

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

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	MAX. FORCE (LBS)	MAX CSI (LC)
FR-TO		(PLF)	CSI (LC)	LENGTH	FR-TO		
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	P-C	-652 / 0	0.15 (1)
B-C	-1386 / 0	-91.8	-91.8 0.18 (1)	5.34	P-N	0 / 1226	0.20 (1)
C-D	-1680 / 0	-91.8	-91.8 0.19 (1)	4.94	C-N	0 / 237	0.05 (1)
D-E	-1408 / 0	-91.8	-91.8 0.10 (1)	5.40	D-M	-465 / 0	0.23 (1)
E-F	-1166 / 0	-91.8	-91.8 0.66 (1)	4.90	M-E	0 / 441	0.10 (1)
F-G	-1133 / 0	-91.8	-91.8 0.65 (1)	4.95	M-F	0 / 47	0.01 (1)
G-H	-268 / 0	-91.8	-91.8 0.27 (1)	6.25	L-F	-724 / 0	0.55 (1)
I-H	-1265 / 0	0.0	0.0 0.34 (1)	5.73	L-G	0 / 1215	0.27 (1)
Q-B	-1408 / 0	0.0	0.0 0.15 (1)	6.87	K-I	-53 / 0	0.01 (1)
					K-H	0 / 1388	0.22 (1)
					B-P	0 / 1224	0.28 (1)
Q-P	0 / 0	-18.5	-18.5 0.05 (4)	10.00			
P-O	0 / 27	-18.5	-18.5 0.06 (4)	10.00			
O-N	0 / 28	0.0	0.0 0.04 (1)	10.00			
N-D	0 / 270	0.0	0.0 0.08 (1)	10.00			
N-M	0 / 1397	-18.5	-18.5 0.28 (1)	10.00			
M-L	0 / 1133	-18.5	-18.5 0.29 (4)	10.00			
L-K	0 / 275	-18.5	-18.5 0.21 (4)	10.00			
J-K	0 / 13	0.0	0.0 0.06 (1)	10.00			
K-G	-1335 / 0	0.0	0.0 0.15 (1)	5.54			
J-I	0 / 42	-18.5	-18.5 0.01 (4)	10.00			

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR
SMALL BUILDING REQUIREMENTS OF PART 9,
NBCC 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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.66/1.00 (E-F:1), BC=0.29/1.00 (L-M:4), WB=0.55/1.00 (F-L:1), SSI=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

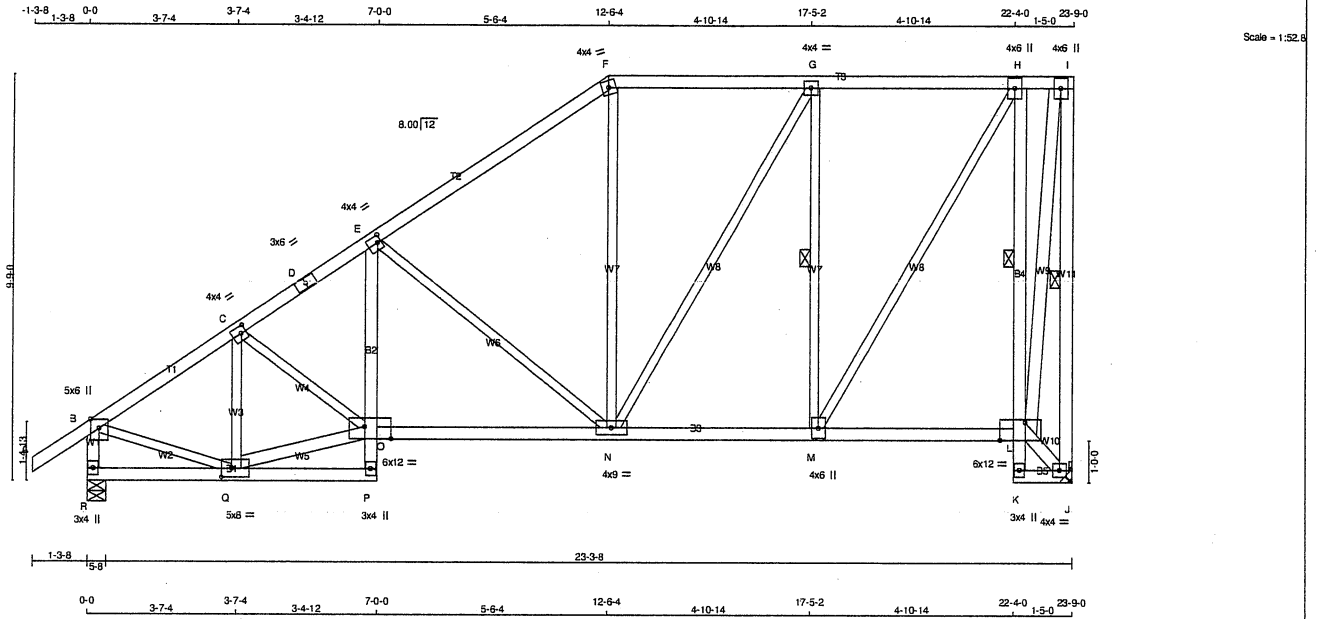
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (L) (INPUT = 0.90)
JSI METAL= 0.57 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T3S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 145 lb
[M/F]

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

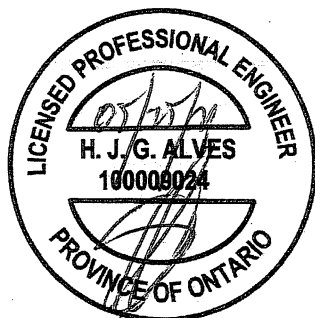
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	Edge	
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TMVW-t	MT20	4.0	4.0	2.00	1.00
F	TTW-m	MT20	4.0	4.0		
G	TMVW-t	MT20	4.0	4.0		
H	TMVW+p	MT20	4.0	6.0		
I	TMVW+p	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	4.0		
K	BMV+p	MT20	3.0	4.0		
L	BVMW+m	MT20	6.0	12.0	5.25	7.50
M	BMVW-t	MT20	4.0	6.0		
N	BMVW-t	MT20	4.0	9.0		
O	BVMW-t	MT20	6.0	12.0	3.50	7.50
P	BMV+p	MT20	3.0	4.0		
Q	BMVW-t	MT20	5.0	8.0	2.50	3.00
R	BMV1+p	MT20	3.0	4.0		

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

NOTES: (1)
1)



Structural component only
DWG# T-2115630

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	MECHANICAL	MECHANICAL
J	1309	0	1309	0	0	5-8	5-8	
R	1435	0	1435	0	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	926	608 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0
R	1013	678 / 0	0 / 0	0 / 0	0 / 0	335 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.80 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 5.68 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-J, H-L, G-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FORCE	FACTORED	
	(LBS)	(PLF)	CSI (LC)	UNBRAC			(LBS)	MAX	
FR-TO		FROM	TO	LENGTH	FR-TO			CSI (LC)	
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	Q-C	-644 / 0	0.15 (1)	
B-C	-1378 / 0	-91.8	-91.8	0.18 (1)	5.36	Q-O	0 / 1212	0.19 (1)	
C-D	-1690 / 0	-91.8	-91.8	0.30 (1)	4.80	C-O	0 / 308	0.07 (1)	
D-E	-1690 / 0	-91.8	-91.8	0.30 (1)	4.80	E-N	-670 / 0	0.72 (1)	
E-F	-1130 / 0	-91.8	-91.8	0.37 (1)	5.52	N-F	0 / 217	0.05 (1)	
F-G	-921 / 0	-91.8	-91.8	0.27 (1)	6.10	N-G	0 / 352	0.08 (1)	
G-H	-744 / 0	-91.8	-91.8	0.27 (1)	6.25	M-G	-841 / 0	0.41 (1)	
H-I	-192 / 0	-91.8	-91.8	0.09 (1)	6.25	M-H	0 / 1085	0.24 (1)	
I-J	-1266 / 0	0.0	0.0	0.58 (1)	5.73	L-J	-52 / 0	0.01 (1)	
R-B	-1408 / 0	0.0	0.0	0.15 (1)	6.87	L-I	0 / 1290	0.21 (1)	
						B-Q	0 / 1210	0.27 (1)	
R-Q	0 / 0	-18.5	-18.5	0.05 (4)	10.00				
Q-P	0 / 28	-18.5	-18.5	0.06 (4)	10.00				
P-O	0 / 28	0.0	0.0	0.04 (1)	10.00				
O-E	0 / 247	0.0	0.0	0.08 (1)	10.00				
O-N	0 / 1440	-18.5	-18.5	0.30 (1)	10.00				
N-M	0 / 744	-18.5	-18.5	0.19 (4)	10.00				
M-L	0 / 196	-18.5	-18.5	0.11 (4)	10.00				
K-L	0 / 13	0.0	0.0	0.06 (1)	10.00				
L-H	-1258 / 0	0.0	0.0	0.28 (1)	5.68				
K-J	0 / 41	-18.5	-18.5	0.01 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.58/1.00 (I-J:1), BC=0.30/1.00 (N-O:1), WB=0.72/1.00 (E-N:1), SSI=0.22/1.00 (F-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 MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

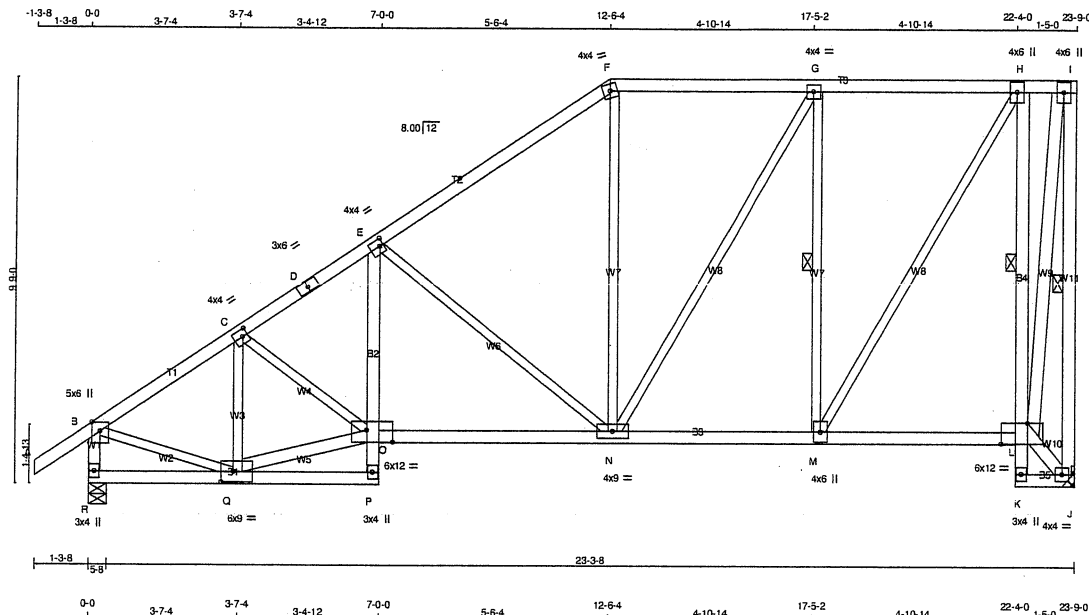
JSI GRIP= 0.79 (B) (INPUT = 0.90)
JSI METAL= 0.57 (B) (INPUT = 1.00)

JSI GRIP= 0.79 (B) (INPUT = 0.90)
JSI METAL= 0.57 (B) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T5S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

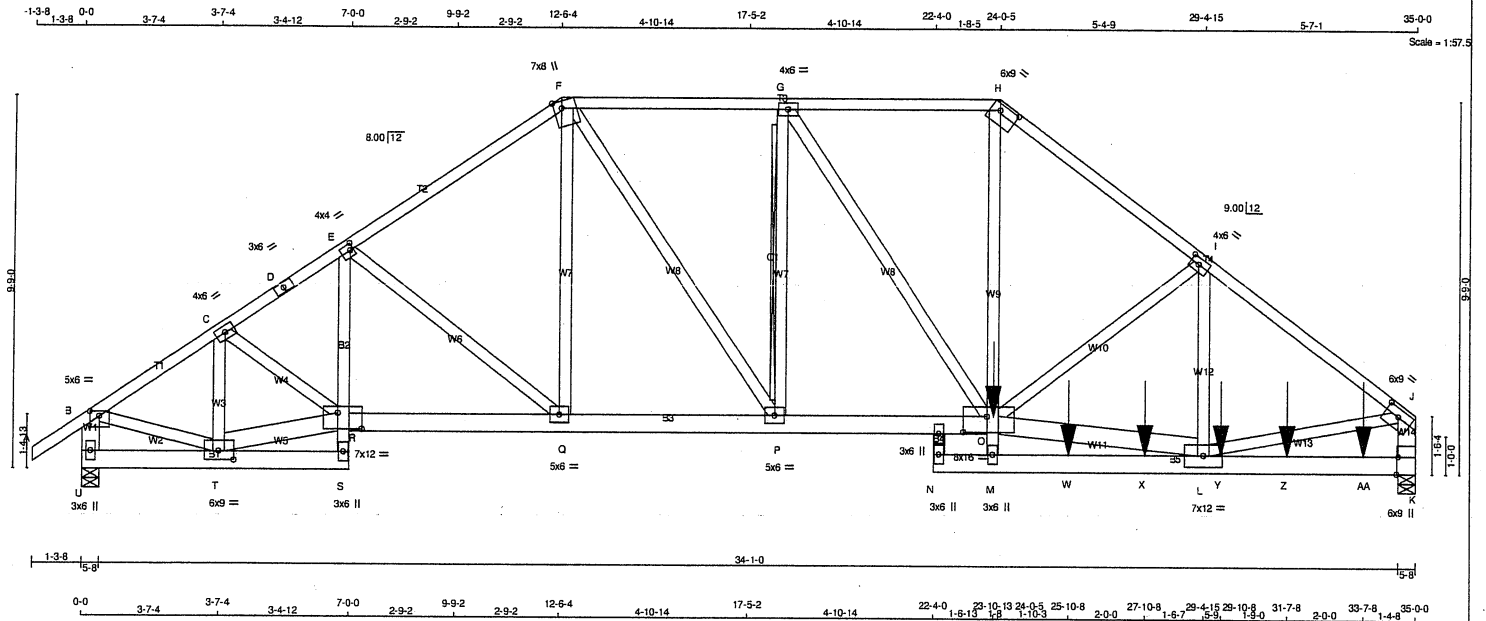
Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:42:14 2021 Page 1
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T6S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4 DRY	1650F 1.5E	SPF		
D - F	2x4 DRY	1650F 1.5E	SPF		
F - H	2x4 DRY	1650F 1.5E	SPF		
H - J	2x4 DRY	1650F 1.5E	SPF		
U - B	2x6 DRY	No.2	SPF		
K - J	2x6 DRY	No.2	SPF		
U - S	2x6 DRY	No.2	SPF		
S - E	2x4 DRY	No.2	SPF		
R - O	2x6 DRY	No.2	SPF		
N - K	2x6 DRY	No.2	SPF		
ALL WEBS	2x4 DRY	No.2	SPF		
EXCEPT					
T - R	2x6 DRY	No.2	SPF		
O - L	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 - D	12	TOP
D - F	12	TOP
F - H	12	TOP
H - J	12	TOP
U - B	12	TOP
K - J	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
U - S	12	TOP
R - O	12	SIDE(61.0)
N - K	12	SIDE(14.0)
S - E	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
M - H	4	SIDE(1318.2)
2x4	1	
2x6	2	

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 DOWN	REQRD BRG
JT	VERT	HORZ	UP/LIFT	IN-SX
U	4353	0	4353	0
K	9579	0	9579	0

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED					
U	3079	2016 / 0	0 / 0	0 / 0	1063 / 0	0 / 0
K	6785	4393 / 0	0 / 0	0 / 0	2391 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.23 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

MAX. UNBRACED INTERIOR CHORD LENGTH = 10.00 FT

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

2x4 DRY SPF No.2 T-BRACE AT G-P

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED MEMB. FORCE (LBS)	MAX. VERT. LOAD (LC1)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 35	-91.8	-91.8	0.06 (1)	10.00	T-C	-2489 / 0
B-C	-5109 / 0	-91.8	-91.8	0.13 (1)	4.75	T-R	0 / 4382
C-D	-6998 / 0	-91.8	-91.8	0.24 (1)	4.06	C-R	0 / 1975
D-E	-6998 / 0	-91.8	-91.8	0.24 (1)	4.06	E-Q	-729 / 0
E-F	-6396 / 0	-91.8	-91.8	0.32 (1)	4.22	Q-F	0 / 542
F-G	-7067 / 0	-91.8	-91.8	0.36 (1)	3.97	F-P	0 / 3109
G-H	-8317 / 0	-91.8	-91.8	0.41 (1)	3.67	P-G	-2460 / 0
H-I	-10318 / 0	-91.8	-91.8	0.55 (1)	3.33	G-O	0 / 2240
I-J	-10833 / 0	-91.8	-91.8	0.63 (1)	3.23	M-O	0 / 356
U-B	-4295 / 0	0.0	0.0	0.15 (1)	6.91	O-H	0 / 5764
K-J	-8450 / 0	0.0	0.0	0.31 (1)	5.18	L-I	0 / 137
U-T	0 / 0	-18.5	-18.5	0.03 (1)	10.00	B-T	0 / 4415
T-S	0 / 78	-18.5	-18.5	0.04 (1)	10.00	L-J	0 / 8860
S-R	0 / 57	0.0	0.0	0.07 (1)	10.00	O-L	0 / 8737
R-E	0 / 292	0.0	0.0	0.09 (1)	10.00	O-I	-601 / 0
R-Q	0 / 5869	-18.5	-18.5	0.40 (1)	10.00		
Q-P	0 / 5306	-18.5	-18.5	0.37 (1)	10.00		
P-O	0 / 7068	-18.5	-18.5	0.48 (1)	10.00		
N-M	0 / 0	-18.5	-18.5	0.01 (4)	10.00		
M-W	0 / 94	-43.5	-43.5	0.60 (1)	10.00		
W-X	0 / 94	-43.5	-43.5	0.60 (1)	10.00		
X-L	0 / 94	-43.5	-43.5	0.60 (1)	10.00		
L-Y	0 / 0	-43.5	-43.5	0.59 (1)	10.00		
Y-Z	0 / 0	-43.5	-43.5	0.59 (1)	10.00		
Z-AA	0 / 0	-43.5	-43.5	0.59 (1)	10.00		
AA-K	0 / 0	-43.5	-43.5	0.59 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	FACE	DIR.	TYPE	HEEL	CONN.
O	23-10-13	-3741	-3741	---	FRONT	VERT	---	C1
W	25-10-8	-48	-48	---	FRONT	VERT	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***
ADD'L 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 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 (1.17")
CALCULATED VERT. DEFL.(LL)= L/999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL)= L/999 (0.31")

CSI: TC=0.63/1.00 (I-J:1), BC=0.60/1.00 (L-M:1), WB=0.78/1.00 (J-L:1), SSI=0.67/1.00 (K-L: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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (L) (INPUT = 0.90)
JSI METAL= 0.93 (H) (INPUT = 1.00)



Structural component only
DWG# T-2115633

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T6S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-BSMFMa5xJ?uaj0Ar8kpwz7TWJwEDDSUKvywzrazCvWw

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMWW-t	MT20	4.0	6.0		
D	TS-t	MT20	3.0	6.0		
E	TMVW-t	MT20	4.0	4.0	2.00	1.00
F	TTWW+m	MT20	7.0	8.0	Edge	2.50
G	TMWW-t	MT20	4.0	6.0		
H	TTW-h	MT20	6.0	9.0	2.00	6.00
I	TMWW-t	MT20	4.0	6.0	2.00	2.75
J	TMVW-t	MT20	6.0	9.0	2.50	4.50
K	BMV1-t	MT20	6.0	9.0	Edge	0.50
L	BMWWW-t	MT20	7.0	12.0		
M	BMW-w	MT20	3.0	6.0		
N	NP-w	MT20	3.0	6.0		
O	BVMWWW-t	MT20	8.0	16.0	5.00	7.50
P	BMWW-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	6.0		
R	BVMWW-t	MT20	7.0	12.0	5.00	7.50
S	BMV-p	MT20	3.0	6.0		
T	BMWWW-t	MT20	6.0	9.0	2.75	4.50
U	BMV1-p	MT20	3.0	6.0		
V	NP-w	MT20	3.0	6.0		

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

NOTES: (1)

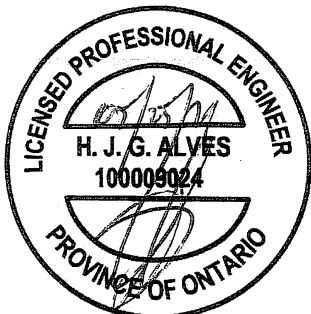
1) Lateral braces to be a minimum of 2x4 SPF #2

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	25-10-8	-145	-145	---	FRONT	VERT	SNOW	---	C1
X	27-10-8	-255	-255	---	FRONT	VERT	DEAD	---	C1
X	27-10-8	-564	-564	---	FRONT	VERT	SNOW	---	C1
Y	29-10-8	-198	-198	---	FRONT	VERT	DEAD	---	C1
Y	29-10-8	-417	-417	---	FRONT	VERT	SNOW	---	C1
Z	31-7-8	-198	-198	---	FRONT	VERT	DEAD	---	C1
Z	31-7-8	-417	-417	---	FRONT	VERT	SNOW	---	C1
AA	33-7-8	-255	-255	---	FRONT	VERT	DEAD	---	C1
AA	33-7-8	-564	-564	---	FRONT	VERT	SNOW	---	C1

CONNECTION REQUIREMENTS

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

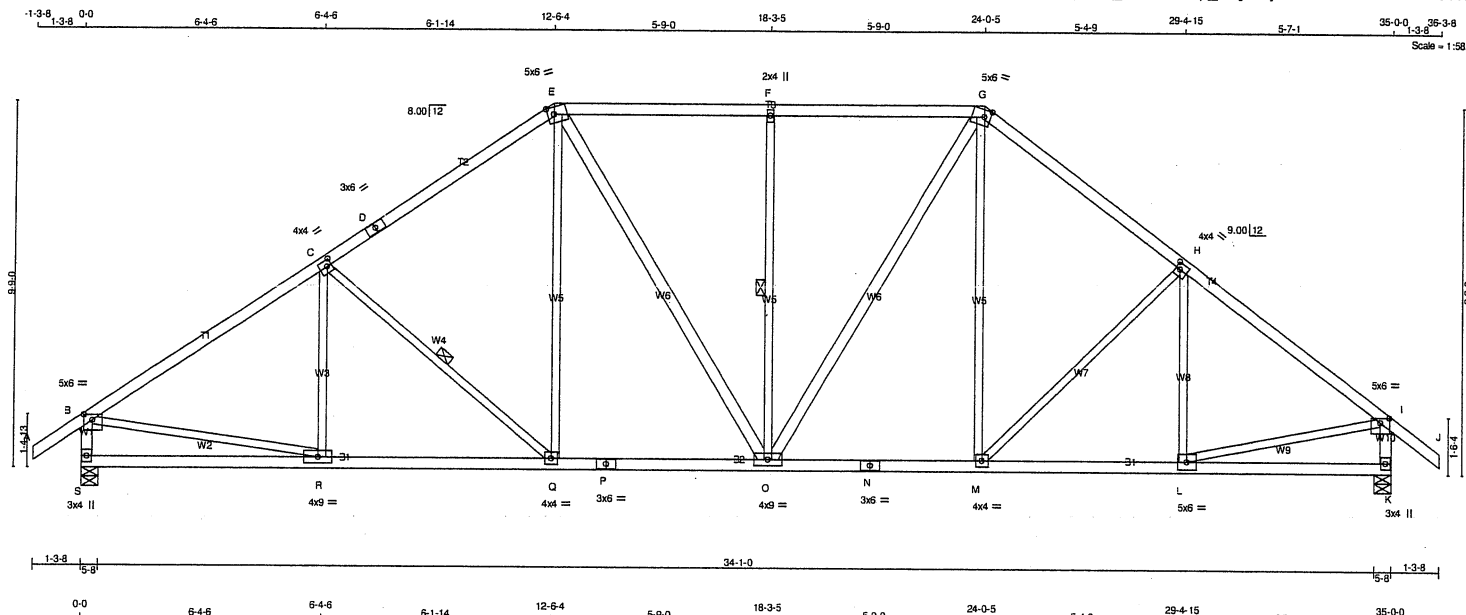


Structural component only
DWG# T-2115633

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T7	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:16 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-_IKZX_zDeFhvY2p_0ByAOjULLdhSIVGclURosizCwL



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	5.0	6.0	1.75	2.75
C	TMWW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMWW-w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	6.0	Edge	2.00
H	TMWW-t	MT20	4.0	4.0	2.00	1.50
I	TMWW-p	MT20	5.0	6.0	1.50	3.00
K	BMV1-p	MT20	3.0	4.0		
L	BMWW-t	MT20	5.0	6.0		
M	BMWW-t	MT20	4.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMWW-t	MT20	4.0	9.0		
P	BS-t	MT20	3.0	6.0		
Q	BMWW-t	MT20	4.0	4.0		
R	BMWW-t	MT20	4.0	9.0		
S	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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
S	2055	0	2055	0	0	5-8
K	2056	0	2056	0	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1451	966 / 0	0 / 0	0 / 0	0 / 0	485 / 0	0 / 0
K	1452	966 / 0	0 / 0	0 / 0	0 / 0	486 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.86 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	R-C	-208 / 34	0.10 (1)
B-C	-2343 / 0	-91.8	-91.8 0.62 (1)	3.86	C-Q	-441 / 0	0.20 (1)
C-D	-2018 / 0	-91.8	-91.8 0.56 (1)	4.17	Q-E	0 / 395	0.09 (1)
D-E	-2018 / 0	-91.8	-91.8 0.56 (1)	4.17	E-O	0 / 338	0.05 (1)
E-F	-1825 / 0	-91.8	-91.8 0.44 (1)	4.49	O-F	-645 / 0	0.41 (1)
F-G	-1825 / 0	-91.8	-91.8 0.44 (1)	4.49	O-G	0 / 538	0.09 (1)
G-H	-1967 / 0	-91.8	-91.8 0.43 (1)	4.39	M-G	0 / 310	0.07 (1)
H-I	-2155 / 0	-91.8	-91.8 0.46 (1)	4.21	M-H	-296 / 0	0.35 (1)
I-J	0 / 38	-91.8	-91.8 0.12 (1)	10.00	L-H	-264 / 0	0.13 (1)
S-B	-2006 / 0	0.0	0.0 0.21 (1)	5.96	B-R	0 / 2009	0.45 (1)
K-I	-2012 / 0	0.0	0.0 0.21 (1)	5.95	L-I	0 / 1792	0.40 (1)
S-R	0 / 0	-18.5	-18.5 0.17 (4)	10.00			
R-Q	0 / 1981	-18.5	-18.5 0.40 (1)	10.00			
Q-P	0 / 1649	-18.5	-18.5 0.33 (1)	10.00			
P-O	0 / 1649	-18.5	-18.5 0.33 (1)	10.00			
O-N	0 / 1545	-18.5	-18.5 0.31 (1)	10.00			
N-M	0 / 1545	-18.5	-18.5 0.31 (1)	10.00			
M-L	0 / 1752	-18.5	-18.5 0.34 (1)	10.00			
L-K	0 / 0	-18.5	-18.5 0.13 (4)	10.00			

TOTAL WEIGHT = 169 lb

[M/F]

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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) = $L/360$ (1.17")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.09")
ALLOWABLE DEFL.(TL) = $L/360$ (1.17")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.17")

CSI: TC=0.62/1.00 (B-C:1), BC=0.40/1.00 (Q-R:1), WB=0.45/1.00 (B-R:1), SS=0.26/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (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= 0.83 (B) (INPUT = 0.90)
JSI METAL= 0.51 (N) (INPUT = 1.00)

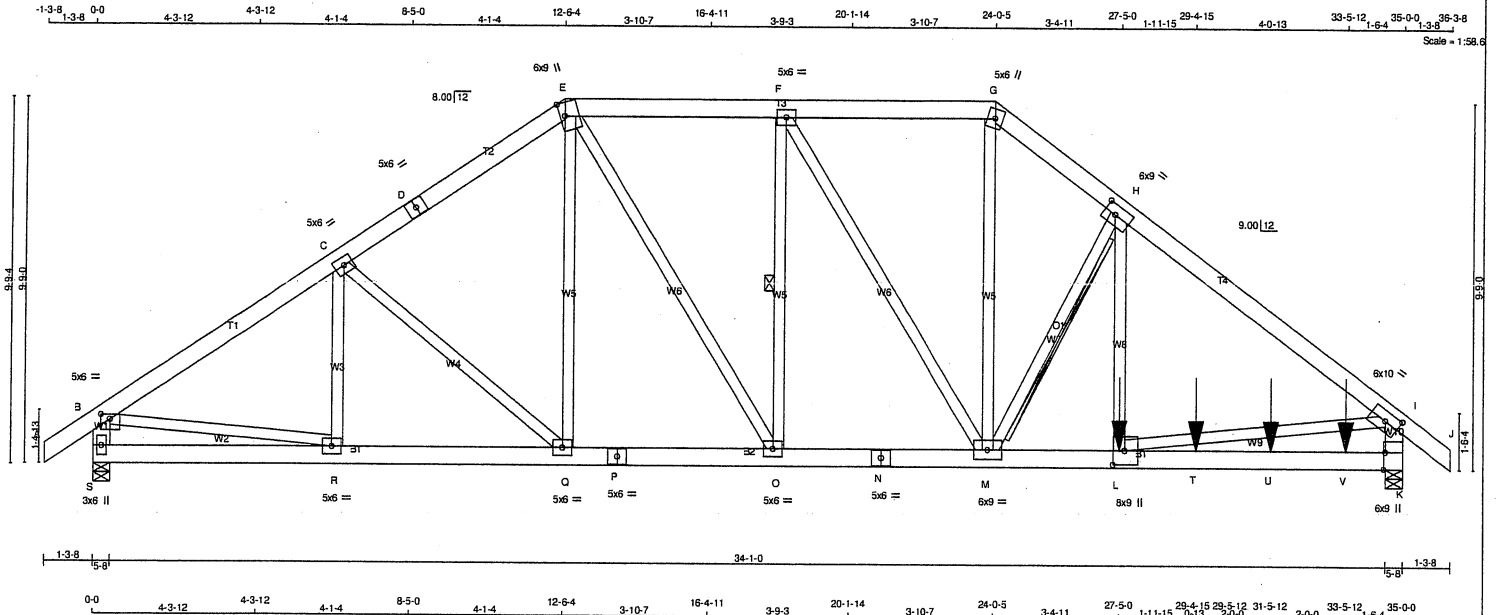


Structural component only
DWG# T-2115634

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T8	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-wgSjyg_UAAsydnMyN8c_eT8ZiYQHrmLOvprnwxbzCvvJ



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 - J	2x6 DRY	No.2	SPF		
S - B	2x6 DRY	No.2	SPF		
K - I	2x6 DRY	No.2	SPF		
S - P	2x6 DRY	1650F 1.5E	SPF		
P - N	2x6 DRY	1650F 1.5E	SPF		
N - K	2x6 DRY	1650F 1.5E	SPF		
ALL WEBS 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 - D	2 12	TOP
D - E	2 12	TOP
E - G	2 12	TOP
G - J	2 12	TOP
S - B	2 12	TOP
K - I	2 12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P	2 12	TOP
P - N	2 12	TOP
N - K	2 12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
H - L	1 3	SIDE(1322.4)
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	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
S	3574	0	3574	0
K	9219	0	9219	0

UNFACTORED REACTIONS

	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	2523	1682 / 0	0 / 0	0 / 0	0 / 0	841 / 0	0 / 0
S	6505	4348 / 0	0 / 0	0 / 0	0 / 0	2157 / 0	0 / 0

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

BRACING

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-O.

2x6 DRY SPF No.2 T-BRACE AT H-M

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)
FR-TO				FR-TO			
A-B	0 / 36	-91.8	-91.8 0.04 (1)	R-C	-437 / 0	0.07 (1)	
B-C	-4662 / 0	-91.8	-91.8 0.19 (1)	C-Q	-238 / 0	0.11 (1)	
C-D	-4519 / 0	-91.8	-91.8 0.19 (1)	Q-E	0 / 271	0.02 (1)	
D-E	-4519 / 0	-91.8	-91.8 0.19 (1)	E-O	0 / 2093	0.19 (1)	
E-F	-4832 / 0	-91.8	-91.8 0.14 (1)	O-F	-1615 / 0	0.35 (1)	
F-G	-5458 / 0	-91.8	-91.8 0.15 (1)	M-G	0 / 3761	0.33 (1)	
G-H	-6815 / 0	-91.8	-91.8 0.15 (1)	B-R	0 / 3943	0.35 (1)	
H-I	-10255 / 0	-91.8	-91.8 0.51 (1)	L-H	0 / 6808	0.60 (1)	
I-J	0 / 39	-91.8	-91.8 0.04 (1)	M-H	-6035 / 0	0.58 (1)	
S-B	-3512 / 0	0.0	0.0 0.12 (1)	L-I	0 / 8289	0.73 (1)	
K-I	-7703 / 0	0.0	0.0 0.27 (1)	F-M	0 / 1212	0.11 (1)	
S-R	0 / 0	-18.5	-18.5 0.03 (4)				
R-Q	0 / 3906	-18.5	-18.5 0.18 (1)				
Q-P	0 / 3728	-18.5	-18.5 0.18 (1)				
P-O	0 / 3728	-18.5	-18.5 0.18 (1)				
O-N	0 / 4832	-18.5	-18.5 0.25 (1)				
N-M	0 / 4832	-18.5	-18.5 0.25 (1)				
M-L	0 / 8217	-18.5	-18.5 0.79 (1)				
L-T	0 / 0	-18.5	-18.5 0.67 (1)				
T-U	0 / 0	-18.5	-18.5 0.67 (1)				
U-V	0 / 0	-18.5	-18.5 0.67 (1)				
V-K	0 / 0	-18.5	-18.5 0.67 (1)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
L	27-5-12	-4074	-568	-568	BACK	VERT	TOTAL	---	C1
T	29-5-12	-568	-568	-568	BACK	VERT	TOTAL	---	C1
U	31-5-12	-568	-568	-568	BACK	VERT	TOTAL	---	C1
V	33-5-12	-909	-909	-909	BACK	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.24")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/954 (0.44")

CSI: TC=0.51/1.00 (H-I:1), BC=0.79/1.00 (L-M:1), WB=0.73/1.00 (I-L:1), SS=0.51/1.00 (K-L:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

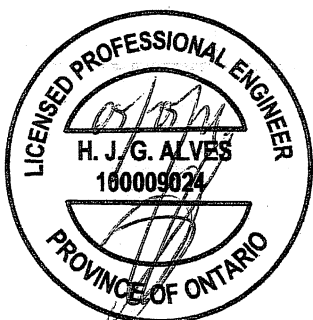
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
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= 0.83 (I) (INPUT = 0.90)
JSI METAL= 0.93 (I) (INPUT = 1.00)



Structural component only
DWG# T-2115635

JOB NAME 411168	TRUSS NAME T8	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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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	9.0	4.25	1.50
F	TMWV-t	MT20	5.0	6.0		
G	TTW+m	MT20	5.0	6.0		
H	TMWV-t	MT20	6.0	9.0	3.00	3.75
I	TMWV-t	MT20	6.0	10.0	3.00	4.50
K	BMV1-t	MT20	6.0	9.0	Edge	0.50
L	BMWV-t	MT20	8.0	9.0	4.50	3.75
M	BMWV-t	MT20	6.0	9.0		
N	BS-t	MT20	5.0	6.0		
O, Q, R						
O	BMWV-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
S	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

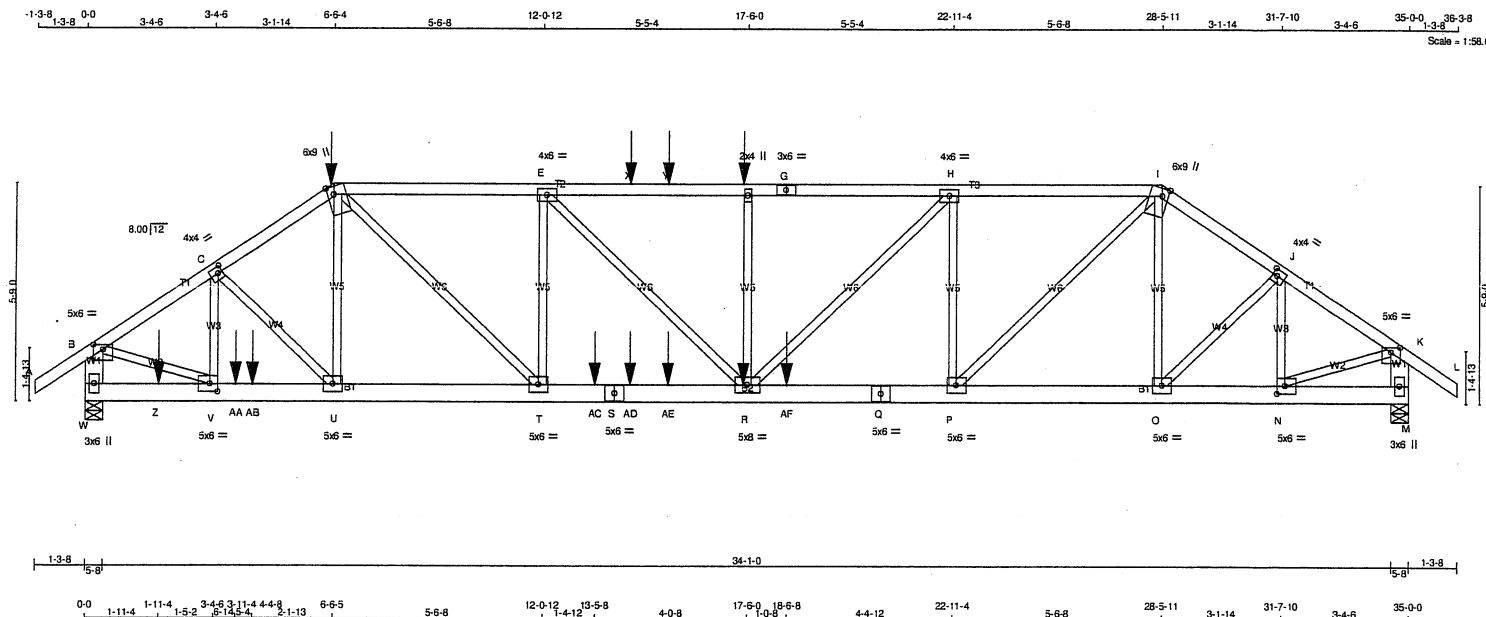
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2115635 *2/2*

JOB NAME 411168	TRUSS NAME T9	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 2 X 173 = 346 lb [M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
W - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
W - S	2x6	DRY	No.2
S - Q	2x6	DRY	No.2
Q - M	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	SIDE(61.0)
D-G 1	12	SIDE(61.0)
G-I 1	12	TOP
I-L 1	12	TOP
W-B 2	12	TOP
M-K 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W-S 2	12	SIDE(0.0)
S-Q 2	12	SIDE(183.1)
Q-M 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 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	3876	0	5-8	5-8
W	HORIZ	3876	0	5-8	5-8
M	UPLIFT	3228	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	2729	1856 / 0	0 / 0	0 / 0	0 / 0	873 / 0	0 / 0
M	2275	1536 / 0	0 / 0	0 / 0	0 / 0	739 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.35 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX. FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT.	LC1 (PLF)	MAX. CSI (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)	UNBRAC LENGTH
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	V-C	-709 / 0	0.08 (1)	
B-C	-4451 / 0	-91.8	-91.8	0.14 (1)	4.44	C-U	0 / 290	0.04 (1)	
C-D	-4736 / 0	-91.8	-91.8	0.14 (1)	4.32	U-D	0 / 97	0.02 (4)	
D-E	-5900 / 0	-91.8	-91.8	0.48 (1)	3.63	D-T	0 / 2751	0.34 (1)	
E-X	-6821 / 0	-91.8	-91.8	0.55 (1)	3.35	T-E	-1564 / 0	0.38 (1)	
X-Y	-6821 / 0	-91.8	-91.8	0.55 (1)	3.35	E-R	0 / 1295	0.16 (1)	
Y-F	-6821 / 0	-91.8	-91.8	0.55 (1)	3.35	R-F	-646 / 0	0.16 (1)	
F-G	-6821 / 0	-91.8	-91.8	0.47 (1)	3.44	R-H	0 / 1779	0.22 (1)	
G-H	-6821 / 0	-91.8	-91.8	0.47 (1)	3.44	H-P	-1793 / 0	0.43 (1)	
H-I	-5556 / 0	-91.8	-91.8	0.39 (1)	3.84	P-I	0 / 3081	0.38 (1)	
I-J	-4046 / 0	-91.8	-91.8	0.13 (1)	4.63	O-I	-234 / 0	0.06 (1)	
J-K	-3622 / 0	-91.8	-91.8	0.12 (1)	4.85	O-J	0 / 450	0.06 (1)	
K-L	0 / 35	-91.8	-91.8	0.07 (1)	10.00	N-J	-902 / 0	0.10 (1)	
W-B	-3832 / 0	0.0	0.0	0.14 (1)	7.22	B-V	0 / 3874	0.48 (1)	
M-K	-3167 / 0	0.0	0.0	0.11 (1)	7.77	N-K	0 / 3157	0.39 (1)	
W-Z	0 / 0	-18.5	-18.5	0.02 (4)	10.00				
Z-V	0 / 0	-18.5	-18.5	0.02 (4)	10.00				
V-AA	0 / 3715	-18.5	-18.5	0.37 (1)	10.00				
AA-AB	0 / 3715	-18.5	-18.5	0.37 (1)	10.00				
AB-U	0 / 3715	-18.5	-18.5	0.37 (1)	10.00				
U-T	0 / 3922	-18.5	-18.5	0.30 (1)	10.00				
T-AC	0 / 5900	-18.5	-18.5	0.57 (1)	10.00				
AC-S	0 / 5900	-18.5	-18.5	0.57 (1)	10.00				
S-AD	0 / 5900	-18.5	-18.5	0.57 (1)	10.00				
AD-AE	0 / 5900	-18.5	-18.5	0.57 (1)	10.00				
AE-R	0 / 5900	-18.5	-18.5	0.57 (1)	10.00				
R-AF	0 / 5556	-18.5	-18.5	0.65 (1)	10.00				
AF-Q	0 / 5556	-18.5	-18.5	0.65 (1)	10.00				
Q-P	0 / 5556	-18.5	-18.5	0.65 (1)	10.00				
P-O	0 / 3342	-18.5	-18.5	0.29 (1)	10.00				
O-N	0 / 3027	-18.5	-18.5	0.23 (1)	10.00				
N-M	0 / 0	-18.5	-18.5	0.04 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX-	MAX+	FRONT	VERT	DEAD	---	---	C1	---
D	6-6-4	-165	-165	---	FRONT	VERT	SNOW	---	---	C1	---
F	17-4-12	-59	-59	---	BACK	VERT	TOTAL	---	---	C1	---
R	17-4-12	-14	-14	---	BACK	VERT	TOTAL	---	---	C1	---
X	14-4-12	-59	-59	---	BACK	VERT	TOTAL	---	---	C1	---
Y	15-4-12	-59	-59	---	BACK	VERT	TOTAL	---	---	C1	---
Z	1-11-4	-14	-14	---	BACK	VERT	TOTAL	---	---	C1	---

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (1.17")
CALCULATED VERT. DEFL.(LL)= L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL)= L/999 (0.31")

CSI: TC=0.55/1.00 (E-F:1), BC=0.65/1.00 (P-R:1), WB=0.48/1.00 (B-V:1), SS=0.41/1.00 (P-R:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

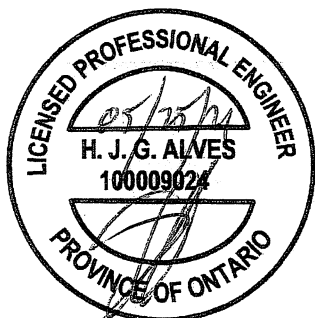
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (N) (INPUT = 0.90)
JSI METAL= 0.64 (S) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115636

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T9	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:20 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-t3Z4NL0kTCL1f6lF106YZf2YE?YEJrCG5P0?UzCvvH

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW+m	MT20	6.0	9.0	Edge	2.00
E	TMVW-t	MT20	4.0	6.0		
F	TMVW-w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	6.0		
I	TTWW+m	MT20	6.0	9.0	Edge	2.00
J	TMVW-t	MT20	4.0	4.0	2.00	1.50
K	TMVW-p	MT20	5.0	6.0	1.50	3.00
M	BMV1+p	MT20	3.0	6.0		
N	BMVW-t	MT20	5.0	6.0	2.50	2.50
O, P, T, U						
O	BMVW-t	MT20	5.0	6.0		
Q	BS-t	MT20	5.0	6.0		
R	BMVWW-t	MT20	5.0	8.0		
S	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	5.0	6.0	2.50	2.50
W	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

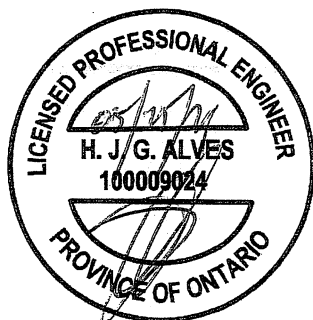
1) Lateral braces to be a minimum of 2x4 SPF #2

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AA	3-11-4	-14	-14	---	BACK	VERT	TOTAL	---	C1
AB	4-4-8	-358	-358	---	BACK	VERT	TOTAL	---	C1
AC	13-5-8	-312	-312	---	BACK	VERT	TOTAL	---	C1
AD	14-4-12	-14	-14	---	BACK	VERT	TOTAL	---	C1
AE	15-4-12	-14	-14	---	BACK	VERT	TOTAL	---	C1
AF	18-6-8	-982	-982	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

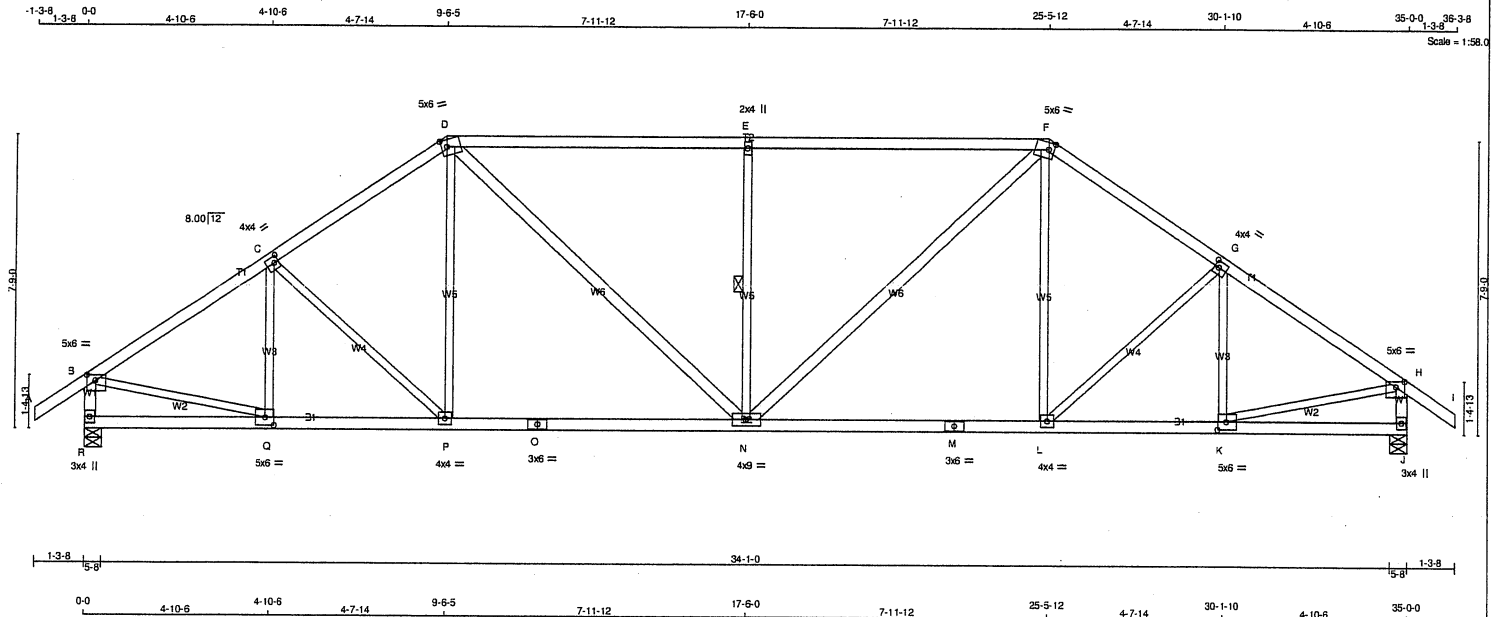


Structural component only
DWG# T-2115636 *ep*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T10	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:42:21 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-LF7Sah1MTnKCephypYL5nB76ePHzndLV19ZYwzCvVg



TOTAL WEIGHT = 156 lb
[M/F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.75	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	6.0	2.25	1.75
E	TMW+w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	1.75
G	TMVW-t	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	6.0	1.75	2.75
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	6.0	2.50	2.75
L	BMVW-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	4.0	9.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	4.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.75
R	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	UPLIFT	IN-SX
R	2055	0	2055	0
J	2055	0	2055	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1451	966 / 0	0 / 0	0 / 0	0 / 0	485 / 0	0 / 0
J	1451	966 / 0	0 / 0	0 / 0	0 / 0	485 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	Q-C	-347 / 0	0.11 (1)
B-C	-2291 / 0	-91.8	-91.8 0.34 (1)	4.22	C-P	-169 / 0	0.13 (1)
C-D	-2200 / 0	-91.8	-91.8 0.33 (1)	4.30	P-D	0 / 238	0.06 (4)
D-E	-2373 / 0	-91.8	-91.8 0.94 (1)	3.08	D-N	0 / 773	0.12 (1)
E-F	-2373 / 0	-91.8	-91.8 0.94 (1)	3.08	N-E	-903 / 0	0.34 (1)
F-G	-2200 / 0	-91.8	-91.8 0.33 (1)	4.30	N-F	0 / 773	0.12 (1)
G-H	-2291 / 0	-91.8	-91.8 0.34 (1)	4.22	L-F	0 / 238	0.06 (4)
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00	L-G	-169 / 0	0.13 (1)
R-B	-2014 / 0	0.0	0.0 0.21 (1)	5.95	K-G	-347 / 0	0.11 (1)
J-H	-2014 / 0	0.0	0.0 0.21 (1)	5.95	B-Q	0 / 1976	0.44 (1)
					K-H	0 / 1976	0.44 (1)
R-Q	0 / 0	-18.5	-18.5 0.10 (4)	10.00			
Q-P	0 / 1929	-18.5	-18.5 0.41 (1)	10.00			
P-O	0 / 1807	-18.5	-18.5 0.42 (1)	10.00			
O-N	0 / 1807	-18.5	-18.5 0.42 (1)	10.00			
N-M	0 / 1807	-18.5	-18.5 0.42 (1)	10.00			
M-L	0 / 1807	-18.5	-18.5 0.42 (1)	10.00			
L-K	0 / 1929	-18.5	-18.5 0.41 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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 (1.17")
CALCULATED VERT. DEFL.(LL)= L/999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL)= L/999 (0.23")

CSI: TC=0.94/1.00 (D-E:1), BC=0.42/1.00 (N-P:1), WB=0.44/1.00 (B-Q:1), SSI=0.36/1.00 (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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (F) (INPUT = 0.90)
JSI METAL= 0.62 (O) (INPUT = 1.00)

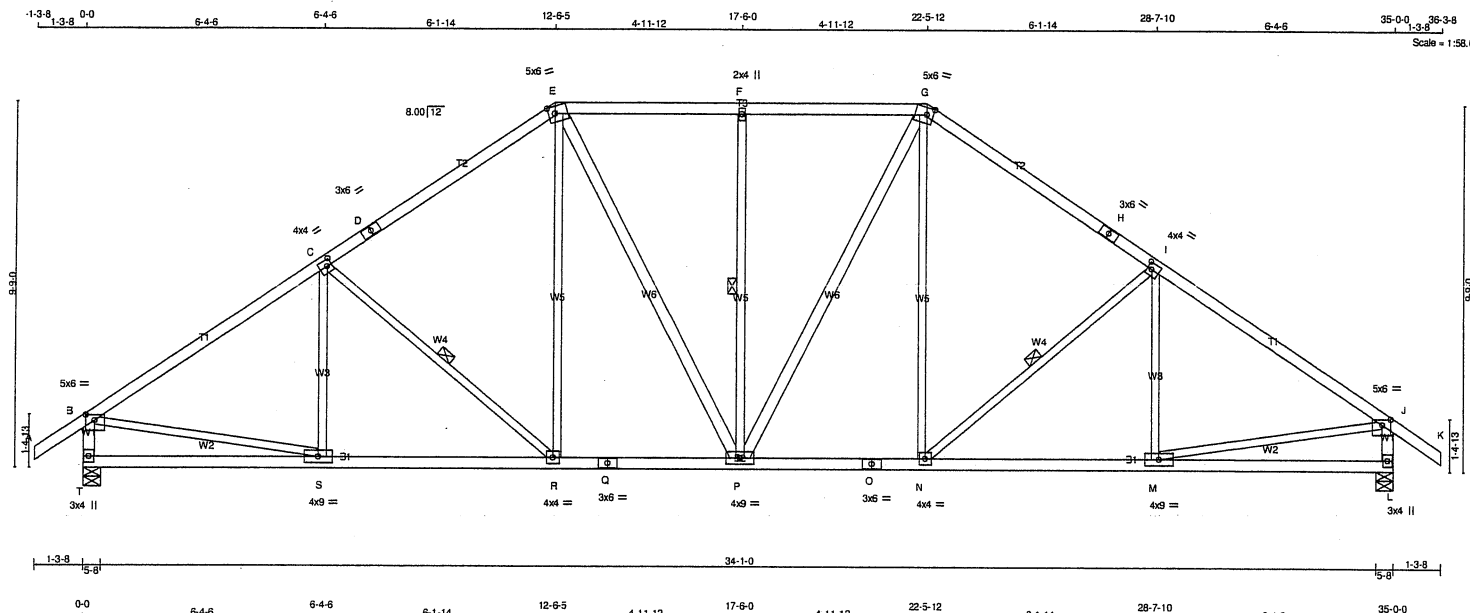


Structural component only
DWG# T-2115637

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T11	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBr2xE89xtNtRz_BuP-pShqp12_E5S3GzG8NS3ad_kMq1kqiDIVkPu64MzCvVf



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	1.75	2.75
C	TMWV-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTWV-m	MT20	5.0	6.0	2.25	2.00
F	TMW+w	MT20	2.0	4.0		
G	TTWV-m	MT20	5.0	6.0	2.25	2.00
H	TS-t	MT20	3.0	6.0		
I	TMWV-t	MT20	4.0	4.0	2.00	1.50
J	TMWV-p	MT20	5.0	6.0	1.75	2.75
L	BMV1+p	MT20	3.0	4.0		
M	BMWV-t	MT20	4.0	9.0		
N	BMWV-t	MT20	4.0	4.0		
O	BS-t	MT20	3.0	6.0		
P	BMWV-t	MT20	4.0	9.0		
Q	BS-t	MT20	3.0	6.0		
R	BMWV-t	MT20	4.0	4.0		
S	BMWV-t	MT20	4.0	9.0		
T	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	REQRD BRG
T	2055	0	0	5-8
L	2055	0	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1451	966 / 0	0 / 0	0 / 0	0 / 0	0 / 0	485 / 0	0 / 0
L	1451	966 / 0	0 / 0	0 / 0	0 / 0	0 / 0	485 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.86 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-R, F-P, H-N.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	S-C	-207 / 35	0.10 (1)	
B-C	-2343 / 0	-91.8	-91.8	0.62 (1)	3.86	C-R	-442 / 0	0.20 (1)	
C-D	-2017 / 0	-91.8	-91.8	0.56 (1)	4.17	R-E	0 / 390	0.09 (1)	
D-E	-2017 / 0	-91.8	-91.8	0.56 (1)	4.17	E-P	0 / 360	0.06 (1)	
E-F	-1816 / 0	-91.8	-91.8	0.33 (1)	4.64	P-F	-554 / 0	0.35 (1)	
F-G	-1816 / 0	-91.8	-91.8	0.33 (1)	4.64	P-G	0 / 360	0.06 (1)	
G-H	-2017 / 0	-91.8	-91.8	0.56 (1)	4.17	N-G	0 / 390	0.09 (1)	
H-I	-2017 / 0	-91.8	-91.8	0.56 (1)	4.17	N-I	-442 / 0	0.20 (1)	
I-J	-2343 / 0	-91.8	-91.8	0.62 (1)	3.86	M-I	-207 / 35	0.10 (1)	
J-K	0 / 35	-91.8	-91.8	0.12 (1)	10.00	B-S	0 / 2009	0.45 (1)	
T-B	-2006 / 0	0.0	0.0	0.21 (1)	5.96	M-J	0 / 2009	0.45 (1)	
L-J	-2006 / 0	0.0	0.0	0.21 (1)	5.96				

T-S	0 / 0	-18.5	-18.5	0.18 (4)	10.00
S-R	0 / 1981	-18.5	-18.5	0.40 (1)	10.00
R-Q	0 / 1649	-18.5	-18.5	0.33 (1)	10.00
Q-P	0 / 1649	-18.5	-18.5	0.33 (1)	10.00
P-O	0 / 1649	-18.5	-18.5	0.33 (1)	10.00
O-N	0 / 1649	-18.5	-18.5	0.33 (1)	10.00
N-M	0 / 1981	-18.5	-18.5	0.40 (1)	10.00
M-L	0 / 0	-18.5	-18.5	0.18 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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) = $L/360$ (1.17")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.09")
ALLOWABLE DEFL.(TL) = $L/360$ (1.17")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.17")

CSI: TC=0.62/1.00 (I-J:1), BC=0.40/1.00 (M-N:1),
WB=0.45/1.00 (J-M:1), SSI=0.23/1.00 (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)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.83 (J) (INPUT = 0.90)
JSI METAL = 0.47 (Q) (INPUT = 1.00)

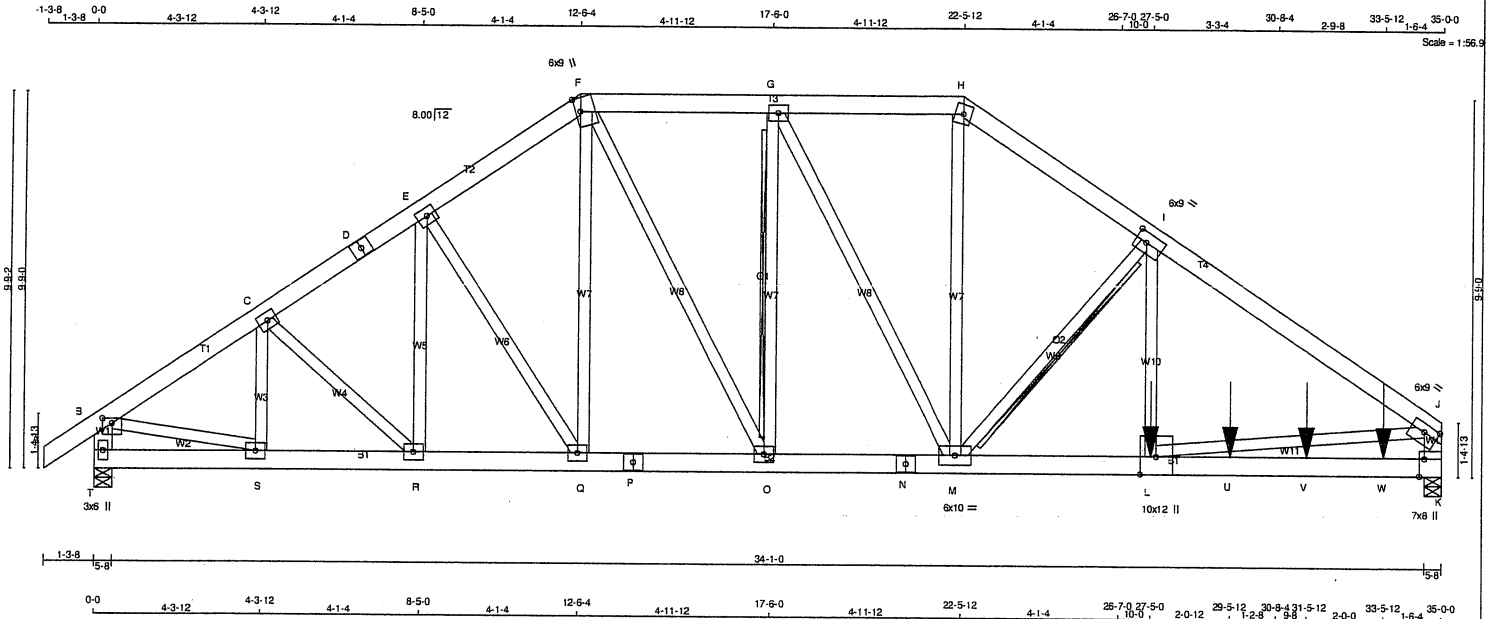


Structural component only
DWG# T-2115638

JOB NAME 411168	TRUSS NAME T12	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:24 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-lqpbDj3FmiimVHQXUt53jPpJDrKvA1qnBjND8FzCvvD



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6 DRY	No.2	SPF		
D - F	2x6 DRY	No.2	SPF		
F - H	2x6 DRY	No.2	SPF		
H - J	2x6 DRY	No.2	SPF		
T - B	2x6 DRY	No.2	SPF		
K - J	2x6 DRY	No.2	SPF		
T - P	2x6 DRY	1650F 1.5E	SPF		
P - N	2x6 DRY	1650F 1.5E	SPF		
N - K	2x6 DRY	1650F 1.5E	SPF		
ALL WEBS 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 - D	2	12
D - F	2	12
F - H	2	12
H - J	2	12
T - B	2	12
K - J	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
T - P	2	12
P - N	2	12
N - K	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
I - L	1	2
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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
T	3678	0	3678	0	5-8	5-8
K	9493	0	9493	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
T	2596	1731 / 0	0 / 0	0 / 0	0 / 0	866 / 0	0 / 0
K	6701	4466 / 0	0 / 0	0 / 0	0 / 0	2235 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.29 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.

2x4 DRY SPF No.2 T-BRACE AT G-O
2x6 DRY SPF No.2 T-BRACE AT I-M

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	CS1 (LC)
FR-TO							FR-TO			
A-B	0 / 36	-91.8	-91.8	0.04 (1)	10.00	S-C	-739 / 0	0.07 (1)		
B-C	-4543 / 0	-91.8	-91.8	0.10 (1)	5.33	C-R	0 / 295	0.03 (1)		
C-D	-4809 / 0	-91.8	-91.8	0.08 (1)	5.24	R-E	-120 / 20	0.03 (1)		
D-E	-4809 / 0	-91.8	-91.8	0.08 (1)	5.24	E-Q	-266 / 0	0.11 (1)		
E-F	-4669 / 0	-91.8	-91.8	0.08 (1)	5.29	Q-F	0 / 298	0.03 (1)		
F-G	-4897 / 0	-91.8	-91.8	0.11 (1)	5.16	F-O	0 / 2180	0.19 (1)		
G-H	-5539 / 0	-91.8	-91.8	0.12 (1)	4.91	O-G	-1709 / 0	0.65 (1)		
H-I	-6637 / 0	-91.8	-91.8	0.17 (1)	4.52	G-M	0 / 1392	0.12 (1)		
I-J	-11639 / 0	-91.8	-91.8	0.57 (1)	3.29	M-H	0 / 3287	0.29 (1)		
T-B	-3623 / 0	0.0	0.0	0.13 (1)	7.39	M-I	-6483 / 0	0.65 (1)		
K-J	-7928 / 0	0.0	0.0	0.28 (1)	5.34	B-S	0 / 3870	0.34 (1)		
						L-I	0 / 7053	0.62 (1)		
						L-J	0 / 9767	0.86 (1)		
T-S	0 / 0	-18.5	-18.5	0.02 (1)	10.00					
S-R	0 / 3789	-18.5	-18.5	0.18 (1)	10.00					
R-Q	0 / 4006	-18.5	-18.5	0.17 (1)	10.00					
Q-P	0 / 3865	-18.5	-18.5	0.19 (1)	10.00					
P-O	0 / 3865	-18.5	-18.5	0.19 (1)	10.00					
O-N	0 / 4897	-18.5	-18.5	0.29 (1)	10.00					
N-M	0 / 4897	-18.5	-18.5	0.29 (1)	10.00					
M-L	0 / 9699	-18.5	-18.5	0.81 (1)	10.00					
L-U	0 / 0	-18.5	-18.5	0.70 (1)	10.00					
U-V	0 / 0	-18.5	-18.5	0.70 (1)	10.00					
V-W	0 / 0	-18.5	-18.5	0.70 (1)	10.00					
W-K	0 / 0	-18.5	-18.5	0.70 (1)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
L	27-5-0	-4407	-4407	---	FRONT	VERT	TOTAL	C1
U	29-5-12	-568	-568	---	FRONT	VERT	TOTAL	C1
V	31-5-12	-568	-568	---	FRONT	VERT	TOTAL	C1
W	33-5-12	-935	-935	---	FRONT	VERT	TOTAL	C1

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.25")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/889 (0.47")

CSI: TC=0.57/1.00 (I-J:1), BC=0.81/1.00 (L-M:1), WB=0.86/1.00 (J-L:1), SS=0.52/1.00 (K-L: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
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (J) (INPUT = 0.90)
JSI METAL= 0.94 (J) (INPUT = 1.00)



Structural component only
DWG# T-2115639

JOB NAME 411168	TRUSS NAME T12	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:24 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C, E, G						
C	TMWW-t	MT20	5.0	6.0		
D	TS-t	MT20	5.0	6.0		
F	TTWW+m	MT20	6.0	9.0	4.25	1.50
H	TTW+m	MT20	5.0	6.0		
I	TMWW-t	MT20	6.0	9.0	3.00	3.50
J	TMVW-t	MT20	6.0	9.0	2.50	4.50
K	BMV1-t	MT20	7.0	8.0	Edge	1.50
L	BMWW-t	MT20	10.0	12.0	Edge	
M	BMWW-t	MT20	6.0	10.0		
N	BS-t	MT20	5.0	6.0		
O, Q, R, S						
O	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
T	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.

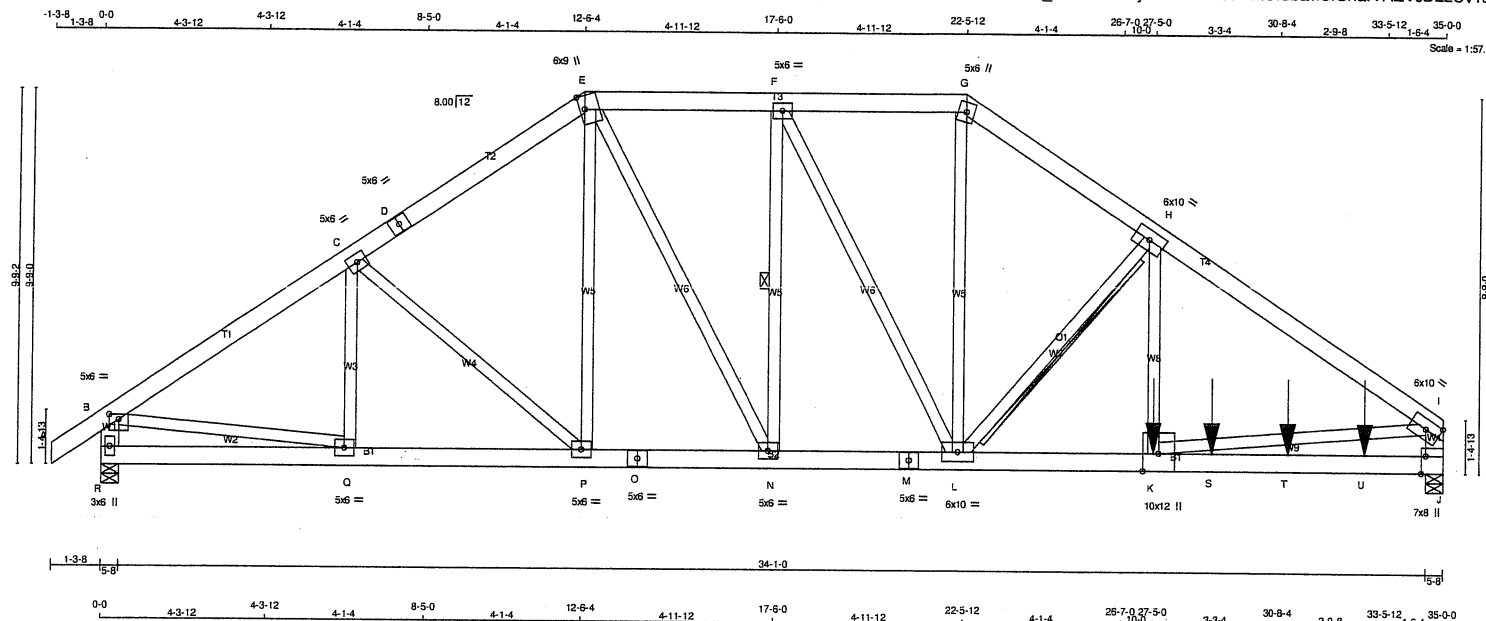


Structural component only
DWG# T-2115639 *ML*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T12Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 17:42:16 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-atsW5yXNrlF6RI0tVFXOlubawoCnaIVAZVD2zCv15



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6	DRY	No.2
D - E	2x6	DRY	No.2
E - G	2x6	DRY	No.2
G - I	2x6	DRY	No.2
R - B	2x6	DRY	No.2
J - I	2x6	DRY	No.2
R - O	2x6	DRY	1650F 1.5E
O - M	2x6	DRY	1650F 1.5E
M - J	2x6	DRY	1650F 1.5E
ALL WEBS EXCEPT	2x4	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - D	2	12
D - E	2	12
E - G	2	12
G - I	2	12
R - B	2	12
J - I	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
R - O	2	12
O - M	2	12
M - J	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
H - K	1	2
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		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
R	3650	0	3650	0	0	5-8	5-8	5-8	5-8
J	8786	0	8786	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	WIND	DEAD
R	2576	1718 / 0	0 / 0	0 / 0	0 / 0	859 / 0	0 / 0	0 / 0	0 / 0
J	6203	4131 / 0	0 / 0	0 / 0	0 / 0	2072 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.33 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.

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

2x6 DRY SPF No.2 T-BRACE AT H-L

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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				W E B S			
MEMB.	MAX. FORCE (LBS)	FACTORED		MAX. FACTORED		MEMB.	MAX. FORCE (LBS)
		VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC			MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 36	-91.8	-91.8	0.04 (1)	10.00	Q-C	-450 / 0 0.07 (1)
B-C	-4774 / 0	-91.8	-91.8	0.19 (1)	5.13	C-P	-227 / 0 0.11 (1)
C-D	-4641 / 0	-91.8	-91.8	0.19 (1)	5.19	P-E	0 / 250 0.02 (1)
D-E	-4641 / 0	-91.8	-91.8	0.19 (1)	5.19	E-N	0 / 2139 0.19 (1)
E-F	-4842 / 0	-91.8	-91.8	0.11 (1)	5.18	N-F	-1698 / 0 0.36 (1)
F-G	-5477 / 0	-91.8	-91.8	0.12 (1)	4.93	F-L	0 / 1378 0.12 (1)
G-H	-6564 / 0	-91.8	-91.8	0.17 (1)	4.54	L-G	0 / 3248 0.29 (1)
H-I	-11441 / 0	-91.8	-91.8	0.55 (1)	3.33	L-H	-6324 / 0 0.63 (1)
R-B	-3587 / 0	0.0	0.0	0.13 (1)	7.41	B-Q	0 / 4037 0.36 (1)
J-I	-7798 / 0	0.0	0.0	0.28 (1)	5.38	K-H	0 / 6862 0.61 (1)
						K-I	0 / 9601 0.85 (1)
R-Q	0 / 0	-18.5	-18.5	0.03 (4)	10.00		
Q-P	0 / 3999	-18.5	-18.5	0.18 (1)	10.00		
P-O	0 / 3830	-18.5	-18.5	0.18 (1)	10.00		
O-N	0 / 3830	-18.5	-18.5	0.18 (1)	10.00		
N-M	0 / 4842	-18.5	-18.5	0.28 (1)	10.00		
M-L	0 / 4842	-18.5	-18.5	0.28 (1)	10.00		
L-K	0 / 9535	-18.5	-18.5	0.75 (1)	10.00		
K-S	0 / 0	-18.5	-18.5	0.58 (1)	10.00		
S-T	0 / 0	-18.5	-18.5	0.58 (1)	10.00		
T-U	0 / 0	-18.5	-18.5	0.58 (1)	10.00		
U-J	0 / 0	-18.5	-18.5	0.58 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	FACE	DIR.	TYPE	HEEL	CONN.
K	27-5-0	-4280	-4280	---	FRONT	VERT	---	C1
S	28-11-4	-560	-560	---	FRONT	VERT	---	C1
T	30-11-4	-560	-560	---	FRONT	VERT	---	C1
U	32-11-4	-560	-560	---	FRONT	VERT	---	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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.23")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/994 (0.42")

CSI: TC=0.55/1.00 (H-I), BC=0.75/1.00 (K-L), WB=0.85/1.00 (H-K), SSI=0.51/1.00 (J-K)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.84 (K) (INPUT = 1.00)



Structural component only
DWG# T-2115690

CONTINUED ON PAGE 2

JOB NAME 411170	TRUSS NAME T12Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-atsW5yXNrLF6RI0tvFXOlubawoICnaI/VAZVJD2zCv15

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMVW-t	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	TMVW-t	MT20	5.0	6.0		
G	TTW+m	MT20	5.0	6.0		
H	TMVW-t	MT20	6.0	10.0		
I	TMVW-t	MT20	6.0	10.0		Edge
J	BMV1-t	MT20	7.0	8.0	Edge	1.50
K	BMVW-t	MT20	10.0	12.0	Edge	
L	BMVW-t	MT20	6.0	10.0		
M	BS-t	MT20	5.0	6.0		
N, P, Q						
N	BMVW-t	MT20	5.0	6.0		
O	BS-t	MT20	5.0	6.0		
R	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.

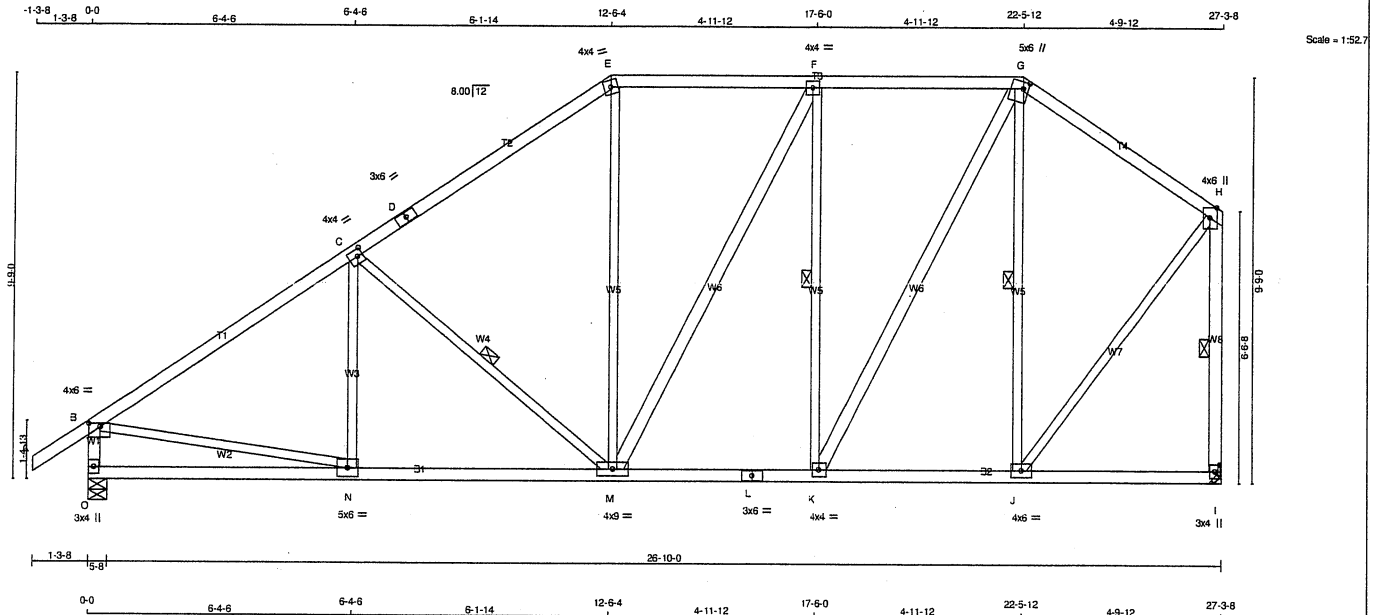


Structural component only
DWG# T-2115690 *m*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T13	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-D1NzQ34W?qd7R?j2aciFdmu8FnjvaUxQN7nhhzCvvC



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	6.0	1.00	3.25	
C	TMVW-t	MT20	4.0	4.0	2.00	1.50	
D	TS-t	MT20	3.0	6.0			
E	TTW-m	MT20	4.0	4.0			
F	TMVW-t	MT20	4.0	4.0			
G	TTWV+m	MT20	5.0	6.0	2.00	1.50	
H	TMVW-p	MT20	4.0	6.0	Edge		
I	BMV1+p	MT20	3.0	4.0			
J	BMVW-t	MT20	4.0	6.0			
K	BMVW-t	MT20	4.0	4.0			
L	BS-t	MT20	3.0	6.0			
M	BMVWV-t	MT20	4.0	9.0			
N	BMVW-t	MT20	5.0	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	5-8	5-8
O	1630	0	1630	0	0	0	0	0
I	1504	0	1504	0	0	0	0	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	1151	768 / 0	0 / 0	0 / 0	0 / 0	382 / 0	0 / 0
I	1064	698 / 0	0 / 0	0 / 0	0 / 0	366 / 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 = 4.44 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-M, F-K, G-J, 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: (4)

MEMB.	CHORDS		FACTORED				WEBS			
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD	LC1	MAX	MAX. UNBRAC	MEMB.	MAX. FACTORED	FORCE (LBS)	MAX
FR-TO			FROM	TO	LENGTH	FR-TO				
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	N-C	-119 / 65	0.06 (1)		
B-C	-1734 / 0	-91.8	-91.8	0.56 (1)	4.44	C-M	-517 / 0	0.24 (1)		
C-D	-1339 / 0	-91.8	-91.8	0.51 (1)	4.97	M-E	0 / 335	0.08 (1)		
D-E	-1339 / 0	-91.8	-91.8	0.51 (1)	4.97	M-F	0 / 117	0.02 (1)		
E-F	-1084 / 0	-91.8	-91.8	0.30 (1)	5.70	K-F	-664 / 0	0.42 (1)		
F-G	-1030 / 0	-91.8	-91.8	0.30 (1)	5.81	K-G	0 / 842	0.14 (1)		
G-H	-777 / 0	-91.8	-91.8	0.28 (1)	6.25	J-G	-710 / 0	0.45 (1)		
O-B	-1582 / 0	0.0	0.0	0.16 (1)	6.56	B-N	0 / 1495	0.34 (1)		
I-H	-1469 / 0	0.0	0.0	0.30 (1)	5.41	J-H	0 / 1040	0.23 (1)		
O-N	0 / 0	-18.5	-18.5	0.18 (4)	10.00					
N-M	0 / 1474	-18.5	-18.5	0.33 (1)	10.00					
M-L	0 / 1030	-18.5	-18.5	0.23 (1)	10.00					
L-K	0 / 1030	-18.5	-18.5	0.23 (1)	10.00					
K-J	0 / 638	-18.5	-18.5	0.17 (1)	10.00					
J-I	0 / 0	-18.5	-18.5	0.11 (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 6.00/12

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 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 (0.91")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.91")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.56/1.00 (B-C:1), BC=0.33/1.00 (M-N:1), WB=0.45/1.00 (G-J:1), SS=0.23/1.00 (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

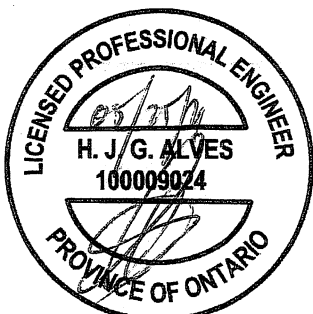
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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= 0.86 (J) (INPUT = 0.90)
JSI METAL= 0.41 (H) (INPUT = 1.00)

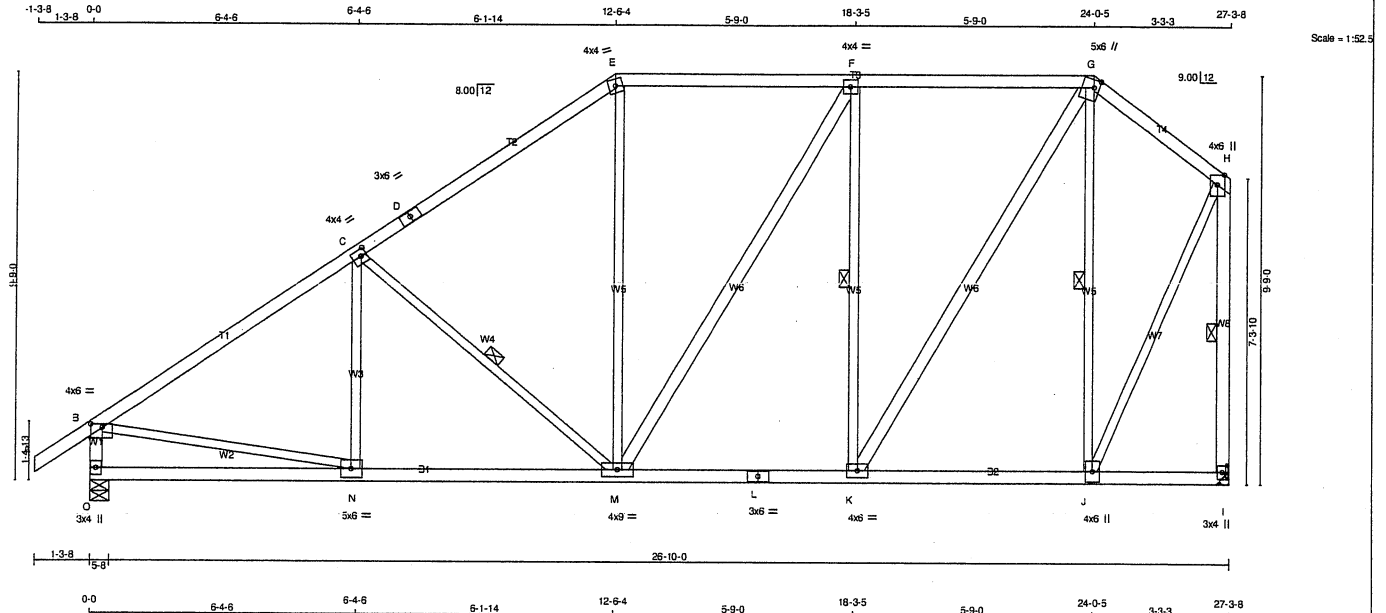


Structural component only
DWG# T-2115640

JOB NAME 411168	TRUSS NAME T14	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBr2xE89xtNtRz_BuP-9PUjrk572d4LMk86A?fmK2Red2TCNTFethctazCvWA



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN
B	TMVW-p	MT20	4.0	6.0
C	TMVW-t	MT20	4.0	4.0
D	TS-t	MT20	3.0	6.0
E	TTW-m	MT20	4.0	4.0
F	TMVW-t	MT20	4.0	4.0
G	TTWV+m	MT20	5.0	6.0
H	TMVW+p	MT20	4.0	6.0
I	BMV1+p	MT20	3.0	4.0
J	BMVW-t	MT20	4.0	6.0
K	BMVW-t	MT20	4.0	6.0
L	BS-t	MT20	3.0	6.0
M	BMVW-t	MT20	4.0	9.0
N	BMVW-t	MT20	5.0	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
O	1630	0	1630	0	5-8	5-8		
I	1504	0	1504	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	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1151	768 / 0	0 / 0	0 / 0	0 / 0	382 / 0	0 / 0
I	1064	698 / 0	0 / 0	0 / 0	0 / 0	366 / 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 = 4.44 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-M, F-K, G-J, 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	N-C	-120 / 64	0.06 (1)
B-C	-1733 / 0	-91.8 -91.8	0.56 (1)	4.44	C-M	-517 / 0	0.24 (1)
C-D	-1339 / 0	-91.8 -91.8	0.51 (1)	4.97	M-E	0 / 309	0.07 (1)
D-E	-1339 / 0	-91.8 -91.8	0.51 (1)	4.97	M-F	0 / 155	0.02 (1)
E-F	-1084 / 0	-91.8 -91.8	0.41 (1)	5.54	K-F	-783 / 0	0.50 (1)
F-G	-1004 / 0	-91.8 -91.8	0.40 (1)	5.70	K-G	0 / 1041	0.17 (1)
G-H	-592 / 0	-91.8 -91.8	0.13 (1)	6.25	J-G	-884 / 0	0.56 (1)
O-B	-1582 / 0	0.0 0.0	0.16 (1)	6.56	B-N	0 / 1495	0.34 (1)
I-H	-1485 / 0	0.0 0.0	0.37 (1)	5.38	J-H	0 / 1086	0.24 (1)
O-N	0 / 0	-18.5 -18.5	0.18 (4)	10.00			
N-M	0 / 1474	-18.5 -18.5	0.33 (1)	10.00			
M-L	0 / 1004	-18.5 -18.5	0.23 (1)	10.00			
L-K	0 / 1004	-18.5 -18.5	0.23 (1)	10.00			
K-J	0 / 463	-18.5 -18.5	0.16 (4)	10.00			
J-I	0 / 0	-18.5 -18.5	0.09 (4)	10.00			

TOTAL WEIGHT = 3 X 146 = 437 lb [MIF]

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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 (0.91")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.91")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.56/1.00 (B-C:1), BC=0.33/1.00 (M-N:1), WB=0.56/1.00 (G-J:1), SSI=0.26/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

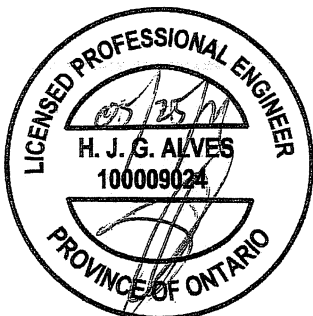
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.84 (H) (INPUT = 0.90)
JSI METAL = 0.39 (B) (INPUT = 1.00)

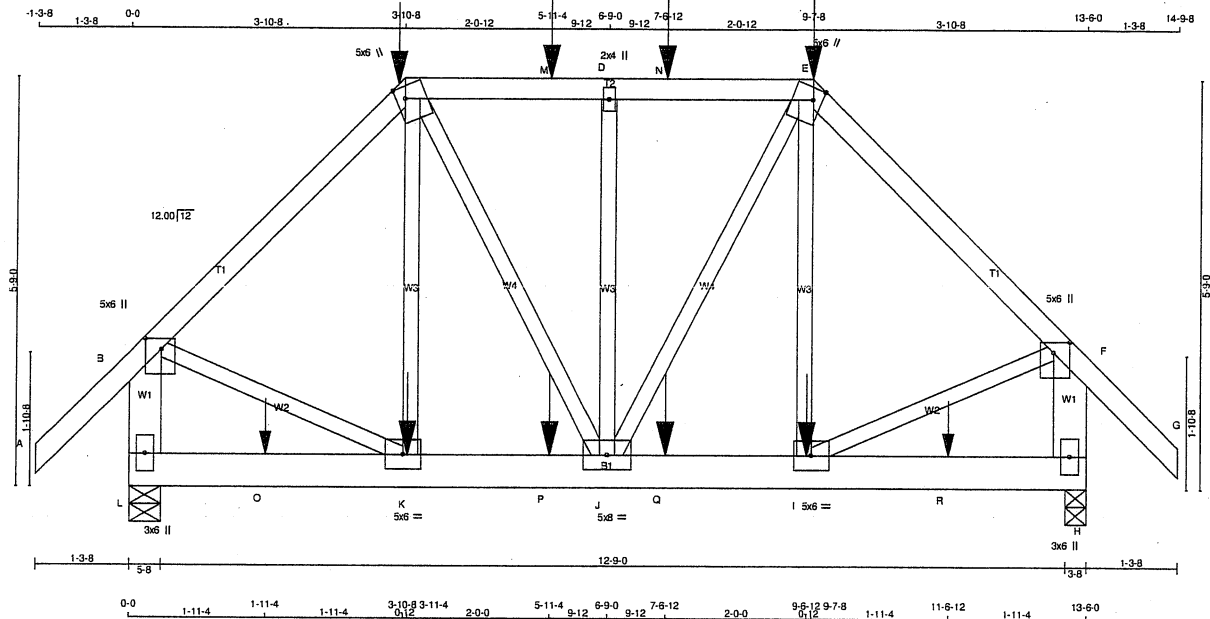


Structural component only
DWG# T-2115641

JOB NAME 411168	TRUSS NAME T15	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:28 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-ec25246lpwCC_ujijA?iF_TcSts6_9N6LLRH0zCw9



TOTAL WEIGHT = 2 X 81 = 161 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	1.75	2.75
C	TTWW+m	MT20	5.0	6.0	2.00	1.50
D	TMW+w	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	2.00	1.50
F	TMVW+p	MT20	5.0	6.0	1.75	2.75
H	BMV1+p	MT20	3.0	6.0		
I	BMVW-t	MT20	5.0	6.0		
J	BMVW-t	MT20	5.0	6.0		
K	BMVW-t	MT20	5.0	6.0		
L	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		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
L	1165	0	1165	0	0	5-8	5-8		
H	1127	0	1127	0	0	3-8	3-8		

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS		SNOW		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED																
L	819	564 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	255 / 0	0 / 0	0 / 0
H	792	546 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	246 / 0	0 / 0	0 / 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 = 6.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 45	-91.8	-91.8	0.14 (1)	10.00	K-C	-113 / 32	0.05 (1)	
B-C	-858 / 0	-91.8	-91.8	0.28 (1)	6.20	C-J	0 / 223	0.06 (1)	
C-M	-707 / 0	-91.8	-91.8	0.17 (1)	6.25	J-D	-416 / 0	0.20 (1)	
M-D	-707 / 0	-91.8	-91.8	0.17 (1)	6.25	J-E	0 / 280	0.07 (1)	
D-N	-707 / 0	-91.8	-91.8	0.17 (1)	6.25	E-I	-101 / 36	0.05 (1)	
N-E	-707 / 0	-91.8	-91.8	0.17 (1)	6.25	B-K	0 / 643	0.16 (1)	
E-F	-820 / 0	-91.8	-91.8	0.28 (1)	6.25	I-F	0 / 614	0.15 (1)	
F-G	0 / 45	-91.8	-91.8	0.14 (1)	10.00				
L-B	-1134 / 0	0.0	0.0	0.09 (1)	7.81				
H-F	-1096 / 0	0.0	0.0	0.08 (1)	7.81				
L-O	0 / 0	-18.5	-18.5	0.03 (4)	10.00				
O-K	0 / 0	-18.5	-18.5	0.03 (4)	10.00				
K-P	0 / 602	-18.5	-18.5	0.11 (1)	10.00				
P-J	0 / 602	-18.5	-18.5	0.11 (1)	10.00				
J-Q	0 / 575	-18.5	-18.5	0.10 (1)	10.00				
Q-I	0 / 575	-18.5	-18.5	0.10 (1)	10.00				
I-R	0 / 0	-18.5	-18.5	0.03 (4)	10.00				
R-H	0 / 0	-18.5	-18.5	0.03 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)		MAX. FACTORED		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX-	MAX+									
C	3-10.8	-159	-159		BACK	VERT	TOTAL						C1
E	9-7.8	-96	-96		BACK	VERT	TOTAL						C1
I	9-6.12	-10	-10		BACK	VERT	TOTAL						C1
K	3-11.4	-10	-10		BACK	VERT	TOTAL						C1
M	5-11.4	-43	-43		BACK	VERT	TOTAL						C1
N	7-6.12	-43	-43		BACK	VERT	TOTAL						C1
O	1-11.4	-0	-0		BACK	VERT	TOTAL						C1
P	5-11.4	-10	-10		BACK	VERT	TOTAL						C1
Q	7-6.12	-10	-10		BACK	VERT	TOTAL						C1
R	11-6.12	-0	-0		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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.28/1.00 (B-C:1), BC=0.11/1.00 (J-K:1), WB=0.20/1.00 (D-J:1), SS=0.18/1.00 (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

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= 0.44 (F) (INPUT = 0.90)
JSI METAL= 0.30 (B) (INPUT = 1.00)



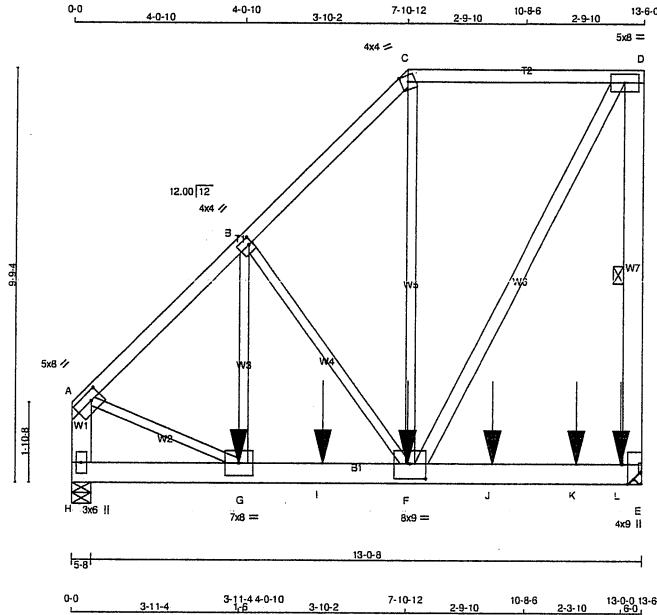
Structural component only
DWG# T-2115642

Structural component only
DWG# T-2115643

JOB NAME 411168	TRUSS NAME T17	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:31 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-2BkEh69e6ranrMStPrjiVucwegikJGTpoJa5uLzCw6



Scale = 1:51.9

TOTAL WEIGHT = 2 X 94 = 188 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		
E - D	2x6 DRY	No.2	SPF		
H - A	2x6 DRY	No.2	SPF		
H - E	2x6 DRY	No.2	SPF		
ALL WEBS EXCEPT F - D	2x3 DRY	No.2	SPF		
	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	12	TOP
C - D	12	TOP
D - E	12	TOP
H - A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H - E	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
B - G	6	SIDE(307.1)
F - C	6	SIDE(153.6)
2x3	6	
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

FACTORED GROSS REACTION	FACTORED GROSS REACTION	INPUT BRG	REQD BRG
VERT	HORZ	IN-SX	IN-SX
JT 5305	0	5305	0
E 4206	0	4206	0
H 4206	0	4206	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
COMBINED	SNOW	LIVE	PERM. LIVE	
JT 3756	2441 / 0	0 / 0	0 / 0	1315 / 0
E 2988	1885 / 0	0 / 0	0 / 0	1102 / 0
H 2988	1885 / 0	0 / 0	0 / 0	1102 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE	FACTORED			MEMB.	MAX. FORCE	MAX. FACTORED
	(LBS)	VERT. LOAD	LC1	MAX		(LBS)	MAX
		(PLF)		CS1 (LC)	UNBRAC		CS1 (LC)
FR-TO		FROM	TO		LENGTH	FR-TO	
A-B	-4035 / 0	-91.8	-91.8	0.20 (1)	4.58	G-B	0 / 1364 0.17 (1)
B-C	-3024 / 0	-91.8	-91.8	0.16 (1)	5.18	B-F	-1301 / 0 0.55 (1)
C-D	-2131 / 0	-91.8	-91.8	0.31 (1)	5.69	F-C	0 / 1720 0.21 (1)
E-D	-3885 / 0	0.0	0.0	0.55 (1)	5.75	F-D	0 / 4217 0.37 (1)
H-A	-4041 / 0	0.0	0.0	0.16 (1)	7.08	A-G	0 / 3046 0.38 (1)
H-G	0 / 0	-78.0	-78.0	0.06 (1)	10.00		
G-I	0 / 2871	-78.0	-78.0	0.86 (1)	10.00		
I-F	0 / 2871	-78.0	-78.0	0.86 (1)	10.00		
F-J	0 / 0	-78.0	-78.0	0.71 (1)	10.00		
J-K	0 / 0	-78.0	-78.0	0.71 (1)	10.00		
K-L	0 / 0	-78.0	-78.0	0.71 (1)	10.00		
L-E	0 / 0	-78.0	-78.0	0.71 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	7-11-4	-911	-911	---	BACK	VERT	TOTAL	---	C1
G	3-11-4	-1329	-1329	---	BACK	VERT	TOTAL	---	C1
I	5-11-4	-911	-911	---	BACK	VERT	TOTAL	---	C1
J	9-11-4	-911	-911	---	BACK	VERT	TOTAL	---	C1
K	11-11-4	-911	-911	---	BACK	VERT	TOTAL	---	C1
L	13-0-0	-119	-119	---	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

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

GIRDER TYPE: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 3-4-8
END DISTANCE = 13-6-0
END SPAN CARRIED = 3-4-8
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

*** 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, NBC0 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC0 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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.55/1.00 (D-E-1), BC=0.86/1.00 (F-G-1), WB=0.55/1.00 (B-F-1), SSI=0.59/1.00 (E-F-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 (PL)
	MAX	MIN	MAX
MT20	650	371	1747
	788	1987	1873

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115644

JOB NAME 411168	TRUSS NAME T17	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:42:31 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-2BkEh69e6ranrMStPrijVucwegikJGTpoJa5uLzCw6

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	8.0	2.25	3.00
B	TMVW-t	MT20	4.0	4.0	2.00	1.00
C	TTW-m	MT20	4.0	4.0	Edge	
D	TMVW-t	MT20	5.0	8.0		
E	BMV1-t	MT20	4.0	9.0	Edge	1.50
F	BMVWW-t	MT20	8.0	9.0	4.25	4.50
G	BMVW-t	MT20	7.0	8.0		
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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (D) (INPUT = 0.90)

JSI METAL= 0.38 (F) (INPUT = 1.00)

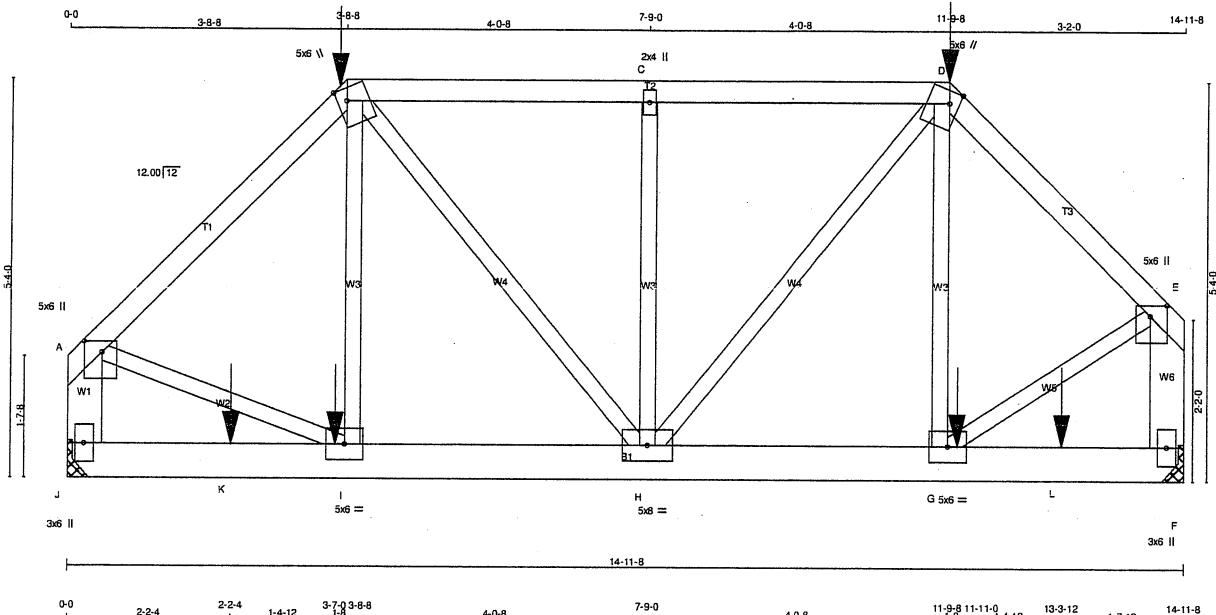


Structural component only
DWG# T-2115644 *mr*

JOB NAME 411168	TRUSS NAME T18	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:42:32 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-WNlcuS9Gt9ieTV13yYEx1599d3DO2oxz1zJeRnzCvv5



TOTAL WEIGHT = 79 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4 DRY	No.2	SPF		
B - D	2x4 DRY	No.2	SPF		
D - E	2x4 DRY	No.2	SPF		
J - A	2x6 DRY	No.2	SPF		
F - E	2x6 DRY	No.2	SPF		
J - F	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
A	TMVW+p	MT20	5.0	6.0	1.75 2.75
B	TTWW+m	MT20	5.0	6.0	2.00 1.50
C	TMVW+w	MT20	2.0	4.0	
D	TTWW+m	MT20	5.0	6.0	2.00 1.50
E	TMVW+p	MT20	5.0	6.0	1.75 2.75
F	BMV1+p	MT20	3.0	6.0	
G	BMVW-t	MT20	5.0	6.0	
H	BMVW-t	MT20	5.0	6.0	
I	BMVW-t	MT20	5.0	6.0	
J	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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
J	1308	0	1308	0	0	MECHANICAL
F	1345	0	1345	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	MAX./MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	924	613 / 0	0 / 0	0 / 0	0 / 0	0 / 0	312 / 0	0 / 0
F	950	630 / 0	0 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1	MAX LC2	MAX UNBRAC LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX LC1	MAX LC2
FR-TO							FR-TO				
A-B	-1181 / 0	-91.8	-91.8	0.28 (1)	5.52	5.83	I-B	0 / 221	0.05 (1)		
B-C	-1008 / 0	-91.8	-91.8	0.28 (1)	5.83	5.83	B-H	0 / 270	0.07 (1)		
C-D	-1008 / 0	-91.8	-91.8	0.28 (1)	5.83	5.83	H-C	-442 / 0	0.18 (1)		
D-E	-1076 / 0	-91.8	-91.8	0.20 (1)	5.82	5.82	H-D	0 / 393	0.10 (1)		
J-A	-1268 / 0	0.0	0.0	0.09 (1)	7.81	7.81	G-D	0 / 86	0.03 (4)		
F-E	-1310 / 0	0.0	0.0	0.11 (1)	7.81	7.81	A-I	0 / 871	0.22 (1)		
							G-E	0 / 857	0.21 (1)		
J-K	0 / 0	-18.5	-18.5	0.04 (4)	10.00						
K-I	0 / 0	-18.5	-18.5	0.04 (4)	10.00						
I-H	0 / 837	-18.5	-18.5	0.13 (1)	10.00						
H-G	0 / 759	-18.5	-18.5	0.12 (1)	10.00						
G-L	0 / 0	-18.5	-18.5	0.03 (4)	10.00						
L-F	0 / 0	-18.5	-18.5	0.03 (4)	10.00						

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	3-8-8	-61	-61	---	FRONT	VERT	TOTAL	---	C1
D	11-9-8	-61	-61	---	FRONT	VERT	TOTAL	---	C1
G	11-11-0	-282	-282	---	FRONT	VERT	TOTAL	---	C1
I	3-7-0	-282	-282	---	FRONT	VERT	TOTAL	---	C1
K	2-2-4	-11	-11	---	FRONT	VERT	TOTAL	---	C1
L	13-3-12	-11	-11	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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) = $L/360$ (0.50")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.50")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CSI: TC=0.28/1.00 (B-C:1), BC=0.13/1.00 (H-I:1),
WB=0.22/1.00 (A-I:1), SS=0.20/1.00 (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 (PSI)	SECTION (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 = 0.62 (A) (INPUT = 0.90)
JSI METAL = 0.37 (A) (INPUT = 1.00)

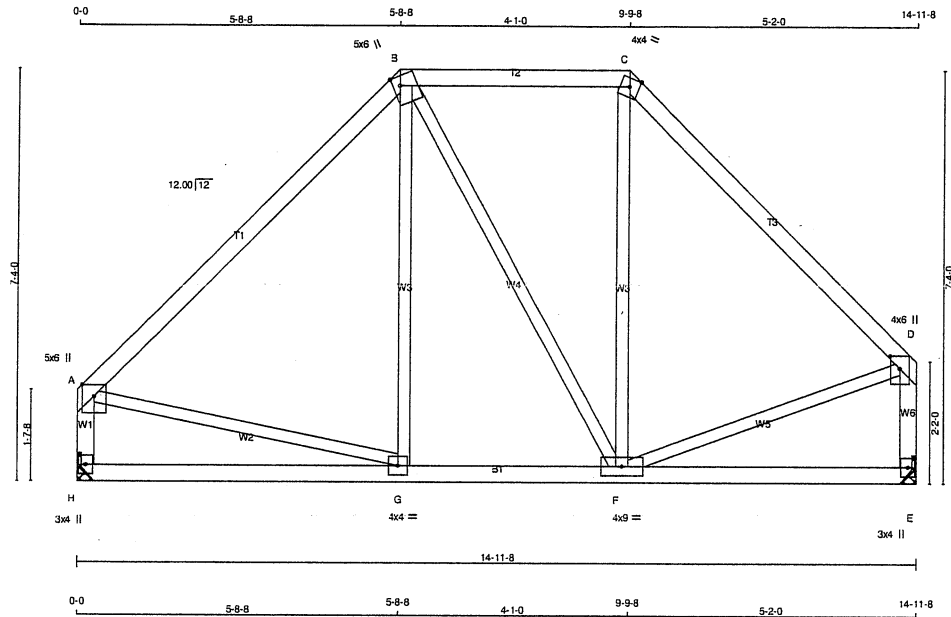


Structural component only
DWG# T-2115645

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T19	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:33 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-_Zs_6oAueTrV4fcFWGIAaJhleTZGnH16Gd3CzDzCvv4



TOTAL WEIGHT = 69 lb
(M/F)

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	2x4	DRY	No.2	SPF
H - A	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - E	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A - B	TMVW+p	MT20	5.0	6.0	Edge	
B - C	TTWW+m	MT20	5.0	6.0	2.00	1.50
C - D	TTW-m	MT20	4.0	4.0	Edge	
D - E	TMVW+p	MT20	4.0	6.0	2.75	2.00
E - F	BMV1+p	MT20	3.0	4.0		
F - G	BMVWW-t	MT20	4.0	9.0		
G - H	BMWW-t	MT20	4.0	4.0		
H - E	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP	IN-SX
H	825	0	825	0
E	825	0	825	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	583	383 / 0	0 / 0	0 / 0	0 / 0	200 / 0	0 / 0
E	583	383 / 0	0 / 0	0 / 0	0 / 0	200 / 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)

CHORDS	MEMB.	MAX. FACTORED	FORCE	VERT. LOAD	LC1	MAX	CS1 (LC)	UNBRAC	MEMB.	MAX. FACTORED	FORCE	MAX	CS1 (LC)
FR-TO									FR-TO				
A-B	-599 / 0	-91.8	-91.8	0.39	(1)	6.25	G-B	0 / 81	0.03	(4)			
B-C	-404 / 0	-91.8	-91.8	0.20	(1)	6.25	B-F	-38 / 0	0.05	(1)			
C-D	-574 / 0	-91.8	-91.8	0.32	(1)	6.25	F-C	-18 / 65	0.02	(4)			
H-A	-779 / 0	0.0	0.0	0.08	(1)	7.81	A-G	0 / 433	0.10	(1)			
E-D	-783 / 0	0.0	0.0	0.09	(1)	7.81	F-D	0 / 428	0.10	(1)			
H-G	0 / 0	-18.5	-18.5	0.13	(4)	10.00							
G-F	0 / 423	-18.5	-18.5	0.16	(4)	10.00							
F-E	0 / 0	-18.5	-18.5	0.11	(4)	10.00							

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.50")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.50")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.39/1.00 (A-B:1) , BC=0.16/1.00 (F-G:4) ,
WB=0.10/1.00 (A-G:1) , SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

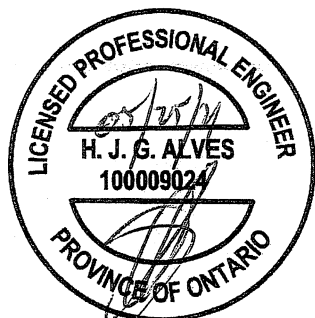
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

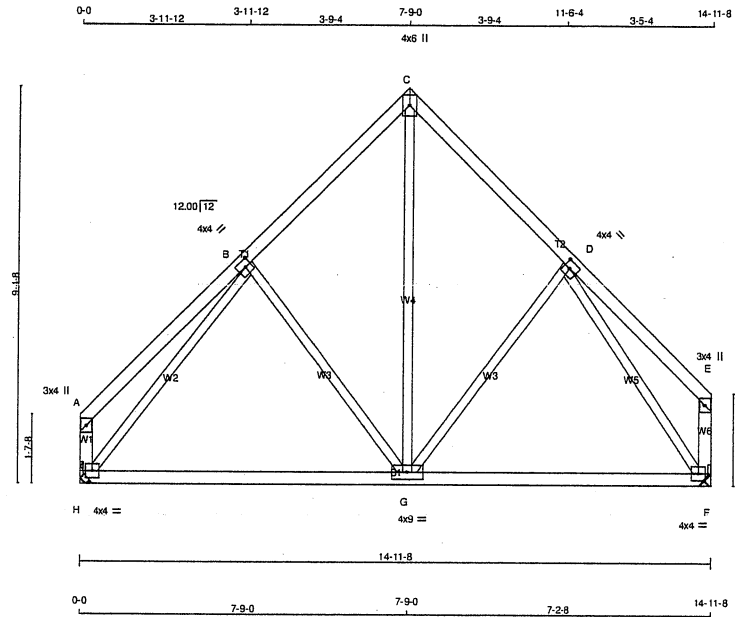
JSI GRIP= 0.52 (D) (INPUT = 0.90)
JSI METAL= 0.28 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115646

JOB NAME 411168	TRUSS NAME T20	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-SIQMJ8BWPmzMpBS4zHP7WEW1tsiWdsGUHoIVgzCvv3



TOTAL WEIGHT = 72 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 - A	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
H - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMVW-t	MT20	4.0	4.0	2.00	1.75
C	TTW+p	MT20	4.0	6.0		
D	TMVW-t	MT20	4.0	4.0	2.00	1.75
E	TMV+p	MT20	3.0	4.0		
F	BMVW1-t	MT20	4.0	4.0		
G	BMVWVW-t	MT20	4.0	9.0		
H	BMVW1-t	MT20	4.0	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	GROSS REACTION	GROSS REACTION	BRG	BRG	
H	825 0	825 0	0	MECHANICAL	
F	825 0	825 0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	583	383 / 0	0 / 0	0 / 0	0 / 0	200 / 0	0 / 0
F	583	383 / 0	0 / 0	0 / 0	0 / 0	200 / 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)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 30	-91.8	-91.8 0.22 (1)	10.00	B-G	-200 / 0	0.15 (1)
B-C	-531 / 0	-91.8	-91.8 0.17 (1)	6.25	G-C	0 / 428	0.10 (1)
C-D	-527 / 0	-91.8	-91.8 0.16 (1)	6.25	G-D	-123 / 0	0.09 (1)
D-E	0 / 30	-91.8	-91.8 0.20 (1)	10.00	H-B	-794 / 0	0.57 (1)
H-A	-134 / 0	0.0	0.0 0.01 (1)	7.81	D-F	-794 / 0	0.50 (1)
F-E	-108 / 0	0.0	0.0 0.01 (1)	7.81			
H-G	0 / 477	-18.5	-18.5 0.34 (4)	10.00			
G-F	0 / 430	-18.5	-18.5 0.33 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.50")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.50")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.22/1.00 (A-B:1) , BC=0.34/1.00 (G-H:4) ,
WB=0.57/1.00 (B-H:1) , SSI=0.12/1.00 (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 .

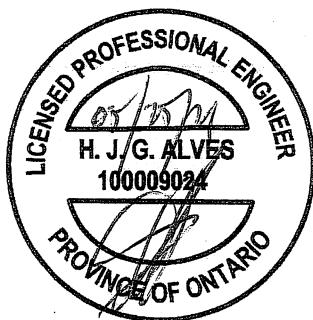
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

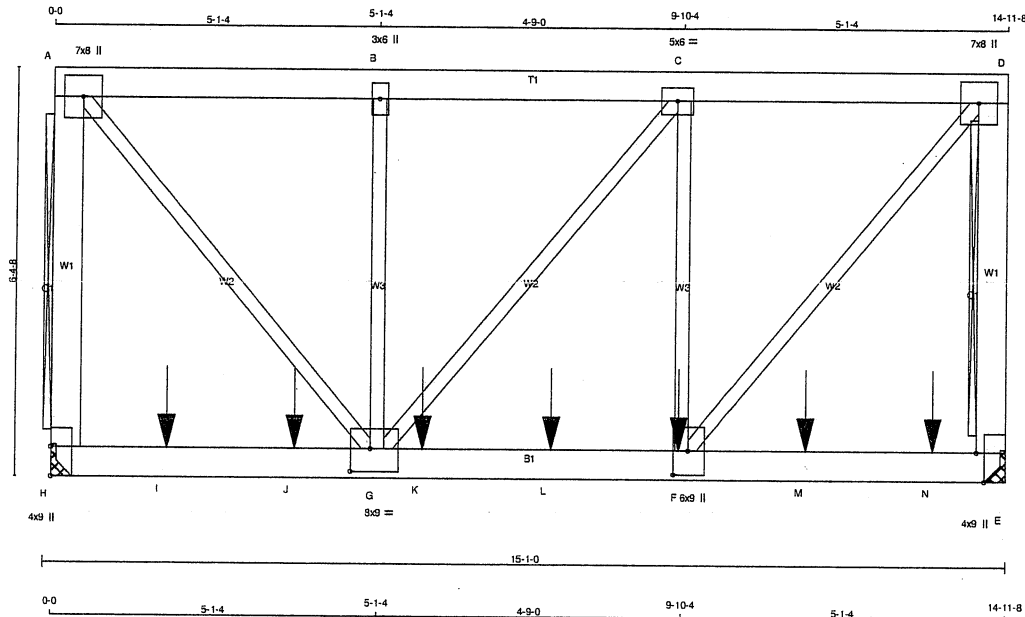
JSI GRIP= 0.83 (D) (INPUT = 0.90)
JSI METAL= 0.28 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115647

JOB NAME 411168	TRUSS NAME T21	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:42:36 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-P8X7kpCmxOD3x7LqBOJtCxJoehPR_UdZybHsaYzCvv1



TOTAL WEIGHT = 2 X 99 = 199 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
H - A	2x6 DRY	No.2	SPF		
A - D	2x6 DRY	No.2	SPF		
E - D	2x6 DRY	No.2	SPF		
H - E	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		
H - A 2	12	TOP
A - D 2	12	TOP
D - E 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H - E 2	12	SIDE (183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
F - C 1	6	SIDE (204.6)
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 is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	7.0	8.0	
B	TMW+w	MT20	3.0	6.0	
C	TMWW-t	MT20	5.0	6.0	
D	TMVW+p	MT20	7.0	8.0	

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
H	5789	5789	0	0
E	6262	6262	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
H	4088	2716 / 0	0 / 0	0 / 0
E	4422	2938 / 0	0 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 5.60 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.

2x4 DRY SPF No.2 T-BRACE AT A-H, D-E

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
H-A	-4748 / 0	0.0 0.0 0.47 (1)	F-D	0 / 6035
A-B	-3907 / 0	-91.8 -91.8 0.12 (1)	A-G	0 / 5981
B-C	-3907 / 0	-91.8 -91.8 0.09 (1)	F-C	-427 / 0
C-D	-3943 / 0	-91.8 -91.8 0.12 (1)	G-B	-463 / 0
E-D	-4787 / 0	0.0 0.0 0.47 (1)	G-C	-57 / 0
H-I	0 / 0	-18.5 -18.5 0.68 (1)		
I-J	0 / 0	-18.5 -18.5 0.68 (1)		
J-G	0 / 0	-18.5 -18.5 0.68 (1)		
G-K	0 / 3943	-18.5 -18.5 0.89 (1)		
K-L	0 / 3943	-18.5 -18.5 0.89 (1)		
L-F	0 / 3943	-18.5 -18.5 0.89 (1)		
F-M	0 / 0	-18.5 -18.5 0.62 (1)		
M-N	0 / 0	-18.5 -18.5 0.62 (1)		
N-E	0 / 0	-18.5 -18.5 0.62 (1)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
F	9-9-12	-1049	-1049	---	BACK	VERT	---	C1
I	1-9-12	-1049	-1049	---	BACK	VERT	---	C1
J	3-9-12	-1049	-1049	---	BACK	VERT	---	C1
K	5-9-12	-1049	-1049	---	BACK	VERT	---	C1
L	7-9-12	-1049	-1049	---	BACK	VERT	---	C1
M	11-9-12	-1049	-1049	---	BACK	VERT	---	C1
N	13-9-12	-1049	-1049	---	BACK	VERT	---	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 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2015

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 (0.50")
CALCULATED VERT. DEFL.(LL)= L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.50")
CALCULATED VERT. DEFL.(TL)= L/999 (0.15")

CSI: TC=0.47/1.00 (D-E:1), BC=0.89/1.00 (F-G:1), WB=0.75/1.00 (D-F:1), SS=0.67/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

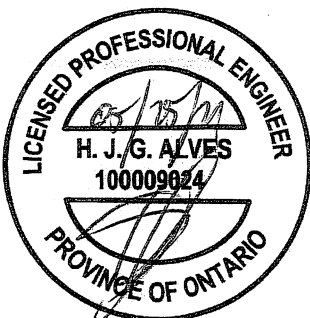
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (G) (INPUT = 0.90)
JSI METAL= 0.59 (F) (INPUT = 1.00)



Structural component only
DWG# T-2115648

JOB NAME 411168	TRUSS NAME T21	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:36 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-P8X7kpCmxOD3x7LqBOJtCxJoehPR UdZybhSaYzCvv1

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
E	BMV1+t	MT20	4.0	9.0	Edge	1.50
F	BMWW+t	MT20	6.0	9.0	4.50	2.75
G	BMWW+t	MT20	8.0	9.0	4.25	3.75
H	BMV1+t	MT20	4.0	9.0	5.50	

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

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

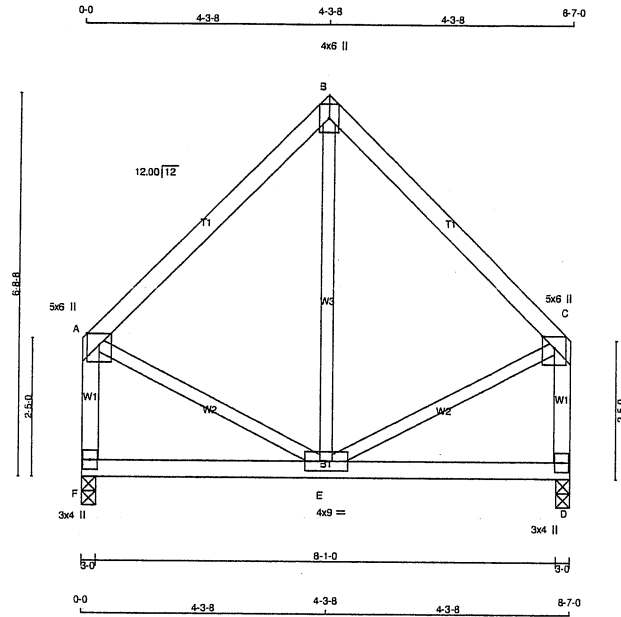


Structural component only
DWG# T-2115648 *2/2*

JOB NAME 411168	TRUSS NAME T22	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-tK5Vx9DPihLwZhv1l6q6k9s1P4x8j6r1AF1P6?zCvv0



Scale = 1/32"

TOTAL WEIGHT = 41 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	6.0	Edge	
B	TTW+p	MT20	4.0	6.0		
C	TMVW+p	MT20	5.0	6.0	Edge	
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
F	473	0	473	0	0	3-0	3-0	
D	473	0	473	0	0	3-0	3-0	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	335	220 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0
D	335	220 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. VERT. LOAD LC1 (PLF)	MAX. VERT. LOAD LC2 (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. VERT. LOAD LC1 (PLF)	MAX. VERT. LOAD LC2 (PLF)
FR-TO								
A-B	-235 / 0	-91.8	-91.8	0.22 (1)	6.25	E-B	-62 / 51	0.04 (1)
B-C	-235 / 0	-91.8	-91.8	0.22 (1)	6.25	A-E	0 / 184	0.04 (1)
F-A	-443 / 0	0.0	0.0	0.06 (1)	7.81	E-C	0 / 184	0.04 (1)
D-C	-443 / 0	0.0	0.0	0.06 (1)	7.81			
F-E	0 / 0	-18.5	-18.5	0.10 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.10 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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 (0.29")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.22/1.00 (A-B:1), BC=0.10/1.00 (E-F:4), WB=0.04/1.00 (B-E:1), SS=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

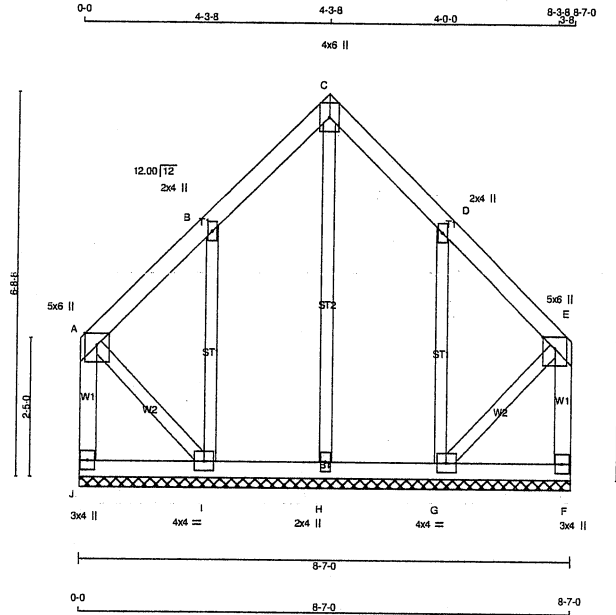
JSI GRIP= 0.21 (A) (INPUT = 0.90)
JSI METAL= 0.11 (A) (INPUT = 1.00)



Structural component only
DWG# T-2115649

JOB NAME 411168	TRUSS NAME G22	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:41:51 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNIRz_BuP-DUJ6HRgYXZYS2COB3R?JtSyBKYFWxHxxc5uzUfzCwvk



TOTAL WEIGHT = 45 lb
[M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
J - A	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
J - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
A TMVW+p	MT20	5.0	6.0	Edge
B TMW+w	MT20	2.0	4.0	
C TTV+w	MT20	4.0	6.0	
D TMW+w	MT20	2.0	4.0	
E TMVW+p	MT20	5.0	6.0	Edge
F BMV1+p	MT20	3.0	4.0	
G BMW1-t	MT20	4.0	4.0	
H BMW1+w	MT20	2.0	4.0	
I BMW1-t	MT20	4.0	4.0	
J 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
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
J-A	-123 / 0	0.0	0.0 0.02 (1)	H-C	-109 / 0	7.81	0.08 (1)
A-B	-18 / 0	-91.8	-91.8 0.07 (1)	I-B	-238 / 0	6.25	0.08 (1)
B-C	-43 / 0	-91.8	-91.8 0.07 (1)	G-D	-238 / 0	6.25	0.08 (1)
C-D	-43 / 0	-91.8	-91.8 0.07 (1)	A-I	0 / 32	6.25	0.01 (1)
D-E	-18 / 0	-91.8	-91.8 0.07 (1)	G-E	0 / 32	6.25	0.01 (1)
F-E	-123 / 0	0.0	0.0 0.02 (1)			7.81	
J-I	0 / 0	-18.5	-18.5 0.02 (4)			10.00	
I-H	0 / 18	-18.5	-18.5 0.02 (4)			10.00	
H-G	0 / 18	-18.5	-18.5 0.02 (4)			10.00	
G-F	0 / 0	-18.5	-18.5 0.02 (4)			10.00	

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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=0.07/1.00 (B-C:1), BC=0.02/1.00 (H-I:4), WB=0.08/1.00 (C-H:1), SSI=0.07/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.12 (B) (INPUT = 1.00)

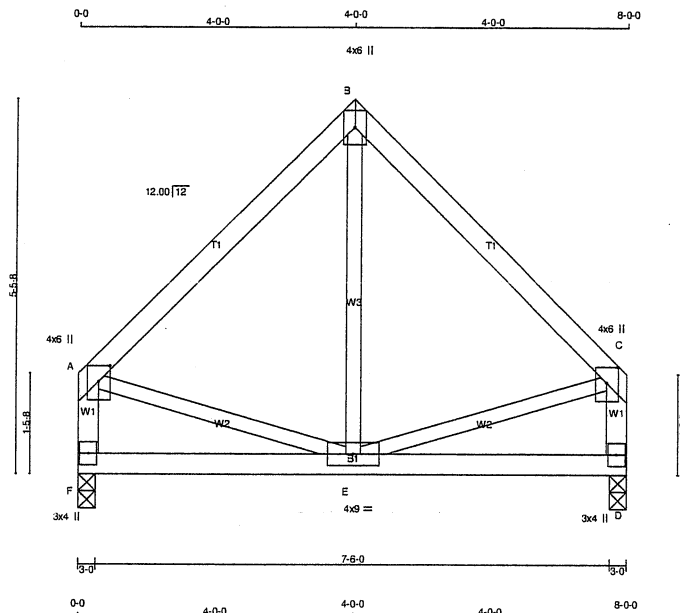


Structural component only
DWG# T-2115612

JOB NAME 411168	TRUSS NAME T25	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:42:38 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-LXft9VE1T?TnBQUDJpLLHMOcbUHaSZ8rPvmzeRzCw?



Scale: 3/8"=1'

TOTAL WEIGHT = 35 lb

LUMBER				DESCR.	
N. L. G. A. RULES	SIZE	LUMBER			
CHORDS					
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	6.0	2.75 2.00
B	TTW+p	MT20	4.0	6.0	
C	TMVW+p	MT20	4.0	6.0	2.75 2.00
D	BMV1+p	MT20	3.0	4.0	
E	BMVWW-t	MT20	4.0	9.0	
F	BMV1+p	MT20	3.0	4.0	

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		MAXIMUM FACTORED		INPUT	REQRD
	GROSS REACTION	GROSS REACTION	DOWN	HORIZ		
F	441	0	441	0	3-0	3-0
D	441	0	441	0	3-0	3-0

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	312	205 / 0	0 / 0	0 / 0	0 / 0	107 / 0	0 / 0
D	312	205 / 0	0 / 0	0 / 0	0 / 0	107 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRAC LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	-253 / 0	-91.8 -91.8	0.19 (1)	6.25	E-B	-9 / 66	0.02 (4)
B-C	-253 / 0	-91.8 -91.8	0.19 (1)	6.25	A-E	0 / 186	0.04 (1)
F-A	-412 / 0	0.0 0.0	0.04 (1)	7.81	E-C	0 / 186	0.04 (1)
D-C	-412 / 0	0.0 0.0	0.04 (1)	7.81			
F-E	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
E-D	0 / 0	-18.5 -18.5	0.08 (4)	10.00			

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 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 (0.27")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.19/1.00 (B-C:1), BC=0.08/1.00 (E-F:4),
WB=0.04/1.00 (A-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.28 (C) (INPUT = 0.90)
JSI METAL= 0.14 (C) (INPUT = 1.00)

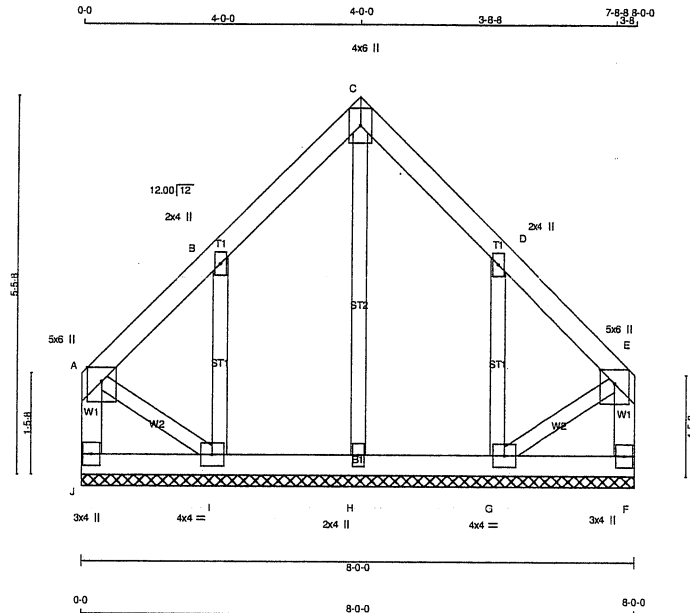


Structural component only
DWG# T-2115650

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	G25	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-hgtUVngAltgJgMzNc9WYQrVNCxbpgli4qldX06zCvvi



TOTAL WEIGHT = 37 lb

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE	DRY	LUMBER	DESCR.	
J - A	2x4	DRY	No.2	SPF	
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 - J	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
ALL GABLE WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2'-0" O.C.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW+p	MT20	5.0	6.0	Edge
B	TMW+w	MT20	2.0	4.0	
C	TTW+p	MT20	4.0	6.0	
D	TMW+w	MT20	2.0	4.0	
E	TMVW+p	MT20	5.0	6.0	Edge
F	BMV1+p	MT20	3.0	4.0	
G	BMW1-t	MT20	4.0	4.0	
H	BMW1+w	MT20	2.0	4.0	
I	BMW1-t	MT20	4.0	4.0	
J	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
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
J-A	-115 / 0	0.0	0.0 0.01 (1)	H-C	-100 / 0	0.04 (1)	0.04 (1)
A-B	-30 / 0	-91.8	-91.8 0.06 (1)	I-B	-220 / 0	0.04 (1)	0.04 (1)
B-C	-51 / 0	-91.8	-91.8 0.06 (1)	G-D	-220 / 0	0.04 (1)	0.04 (1)
C-D	-51 / 0	-91.8	-91.8 0.06 (1)	A-I	0 / 38	0.01 (1)	0.01 (1)
D-E	-30 / 0	-91.8	-91.8 0.06 (1)	G-E	0 / 38	0.01 (1)	0.01 (1)
F-E	-115 / 0	0.0	0.0 0.01 (1)				
J-I	0 / 0	-18.5	-18.5 0.02 (4)				
I-H	0 / 25	-18.5	-18.5 0.02 (4)				
H-G	0 / 25	-18.5	-18.5 0.02 (4)				
G-F	0 / 0	-18.5	-18.5 0.02 (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

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=0.06/1.00 (C-D:1), BC=0.02/1.00 (G-H:4), WB=0.04/1.00 (D-G:1), SS=0.06/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

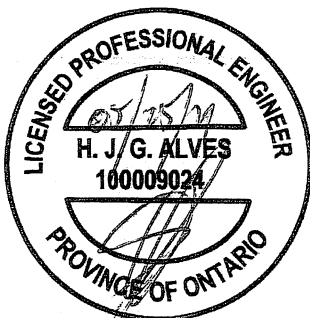
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.12 (B) (INPUT = 1.00)

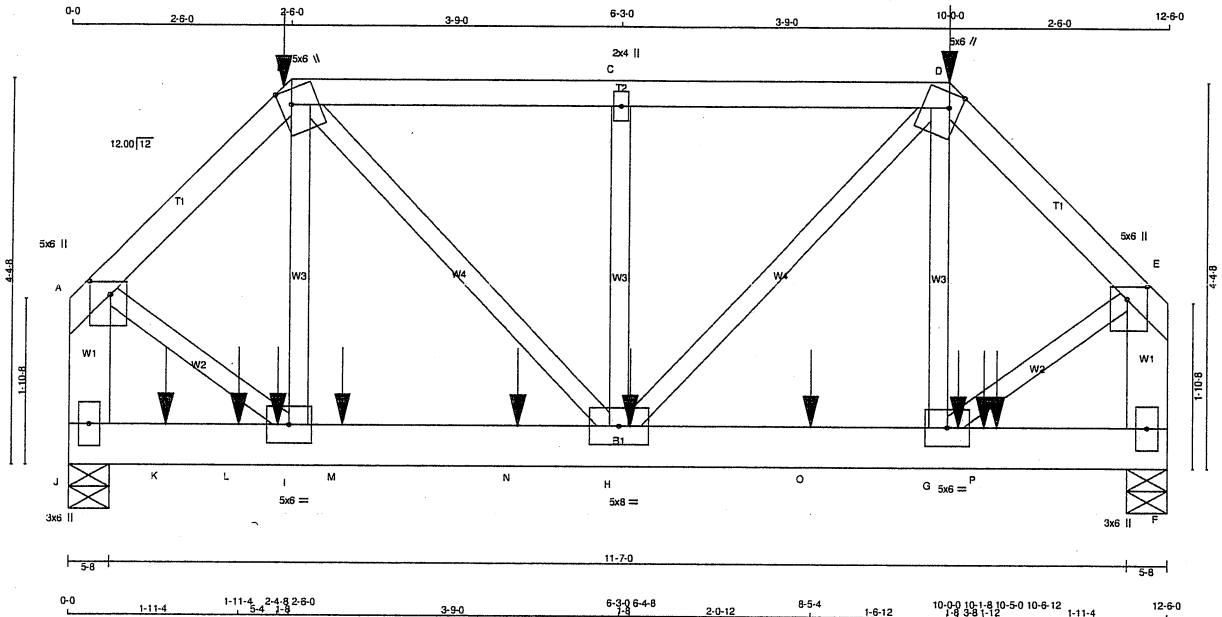


Structural component only
DWG# T-2115613

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T26	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:39 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-pjDFMrFidJbepa3PtWsapaxOUub0Azf?eZWAtzCvv_



TOTAL WEIGHT = 2 X 66 = 132 lb [M]

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - B	2x4	DRY	No.2	SPF		
B - D	2x4	DRY	No.2	SPF		
D - E	2x4	DRY	No.2	SPF		
J - A	2x6	DRY	No.2	SPF		
F - E	2x6	DRY	No.2	SPF		
J - F	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 - B 1 12	SIDE(61.0)	
B - D 1 12	SIDE(61.0)	
D - E 1 12	SIDE(61.0)	
J - A 2 12	TOP	
F - E 2 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J - F 2 12	SIDE(183.1)	
WEBS : (0.122"x3") SPIRAL NAILS		
C - H 1 6	SIDE(138.9)	
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.

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	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
JT	2385	0	2385	0	5-8	5-8		
J	2538	0	2538	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN.	COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
J	1679	1142 / 0	0 / 0	0 / 0	0 / 0	537 / 0	0 / 0	
F	1790	1204 / 0	0 / 0	0 / 0	0 / 0	586 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.71 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. (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
A - B	-1987 / 0	-91.8 -91.8	0.07 (1)	6.17	I - B	0 / 79	0.01 (4)
B - C	-2376 / 0	-91.8 -91.8	0.12 (1)	5.71	B - H	0 / 1424	0.18 (1)
C - D	-2376 / 0	-91.8 -91.8	0.12 (1)	5.71	H - C	-372 / 0	0.05 (1)
D - E	-2174 / 0	-91.8 -91.8	0.07 (1)	5.97	H - D	0 / 1222	0.15 (1)
J - A	-2300 / 0	0.0 0.0	0.09 (1)	7.81	G - D	0 / 359	0.04 (1)
F - E	-2506 / 0	0.0 0.0	0.10 (1)	7.81	A - I	0 / 1596	0.20 (1)
					G - E	0 / 1746	0.22 (1)
J - K	0 / 0	-18.5 -18.5	0.04 (1)	10.00			
K - L	0 / 0	-18.5 -18.5	0.04 (1)	10.00			
L - I	0 / 0	-18.5 -18.5	0.04 (1)	10.00			
I - M	0 / 1399	-18.5 -18.5	0.14 (1)	10.00			
M - N	0 / 1399	-18.5 -18.5	0.14 (1)	10.00			
N - H	0 / 1399	-18.5 -18.5	0.14 (1)	10.00			
H - O	0 / 1537	-18.5 -18.5	0.20 (1)	10.00			
O - G	0 / 1537	-18.5 -18.5	0.20 (1)	10.00			
G - P	0 / 0	-18.5 -18.5	0.07 (1)	10.00			
P - F	0 / 0	-18.5 -18.5	0.07 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-6-0	-18	-18	---	BACK	VERT	TOTAL	---	C1
D	10-0-0	-18	-18	---	BACK	VERT	TOTAL	---	C1
G	10-1-8	-302	-302	---	BACK	VERT	TOTAL	---	C1
H	6-4-8	-869	-869	---	FRONT	VERT	TOTAL	---	C1
I	2-4-8	-302	-302	---	BACK	VERT	TOTAL	---	C1
K	1-1-4	-127	-127	---	FRONT	VERT	TOTAL	---	C1
L	1-11-4	-5	-5	---	BACK	VERT	TOTAL	---	C1
M	3-1-4	-127	-127	---	FRONT	VERT	TOTAL	---	C1
N	5-1-4	-127	-127	---	FRONT	VERT	TOTAL	---	C1
O	8-5-4	-297	-297	---	FRONT	VERT	TOTAL	---	C1
P	10-5-0	-297	-297	---	FRONT	VERT	TOTAL	---	C1
P	10-6-12	-5	-5	---	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/C

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

*** NON STANDARD GIRDER ***
ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 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 (0.42")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.12/1.00 (B-C:1) , BC=0.20/1.00 (G-H:1) , WB=0.22/1.00 (E-G:1) , SS=0.15/1.00 (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 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= 0.55 (D) (INPUT = 0.90)
JSI METAL= 0.32 (A) (INPUT = 1.00)



Structural component only
DWG# T-2115651

CONTINUED ON PAGE 2

JOB NAME 411168	TRUSS NAME T26	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:39 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-pjDFMrFtDjbepa3PtWsapaxOUub0Azf?eZWWAtzCvv

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	6.0	1.75	2.75
B	TTWW+m	MT20	5.0	6.0	2.00	1.50
C	TMW+w	MT20	2.0	4.0		
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW+p	MT20	5.0	6.0	1.75	2.75
F	BMV1+p	MT20	3.0	6.0		
G	BMWW-t	MT20	5.0	6.0		
H	BMWW-t	MT20	5.0	8.0		
I	BMWW-t	MT20	5.0	6.0		
J	BMV1+p	MT20	3.0	6.0		

NOTES- (1)

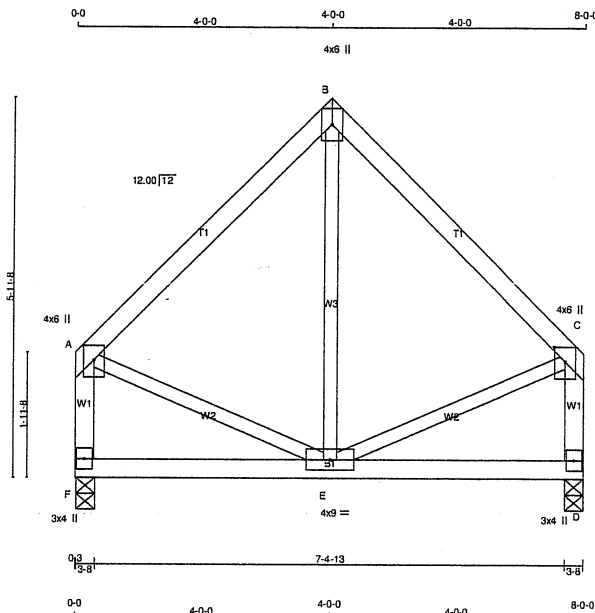
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115651 *7/2*

JOB NAME 411168	TRUSS NAME T27	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:40 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-HvneaBFH_cjVQkebQENpMnUY4Iz1vTg8tDF3jzCvuz



Scale = 1/32"

TOTAL WEIGHT = 37 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	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 EXCEPT	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	6.0	2.75	2.00
B	TTW+p	MT20	4.0	6.0		
C	TMVW+p	MT20	4.0	6.0	2.75	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

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	IN-SX	IN-SX	IN-SX	IN-SX
F	441	0	441	0	0	3-8	3-8	
D	441	0	441	0	0	3-8	3-8	

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	312	205 / 0	0 / 0	0 / 0	0 / 0	107 / 0	0 / 0
D	312	205 / 0	0 / 0	0 / 0	0 / 0	107 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	-231 / 0	-91.8	-91.8 0.19 (1)	E-B	-40 / 54	0.02 (1)	
B-C	-231 / 0	-91.8	-91.8 0.19 (1)	A-E	0 / 176	0.04 (1)	
F-A	-412 / 0	0.0	0.0 0.05 (1)	E-C	0 / 176	0.04 (1)	
D-C	-412 / 0	0.0	0.0 0.05 (1)				
F-E	0 / 0	-18.5	-18.5 0.08 (4)				
E-D	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

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 (0.27")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.19/1.00 (B-C:1), BC=0.08/1.00 (E-F:4),
WB=0.04/1.00 (A-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

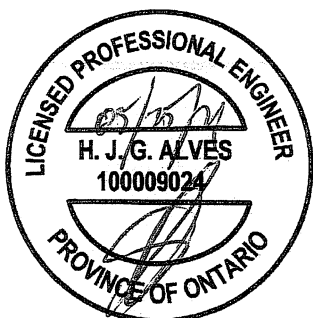
NAIL VALUES

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= 0.28 (A) (INPUT = 0.90)
JSI METAL= 0.13 (C) (INPUT = 1.00)

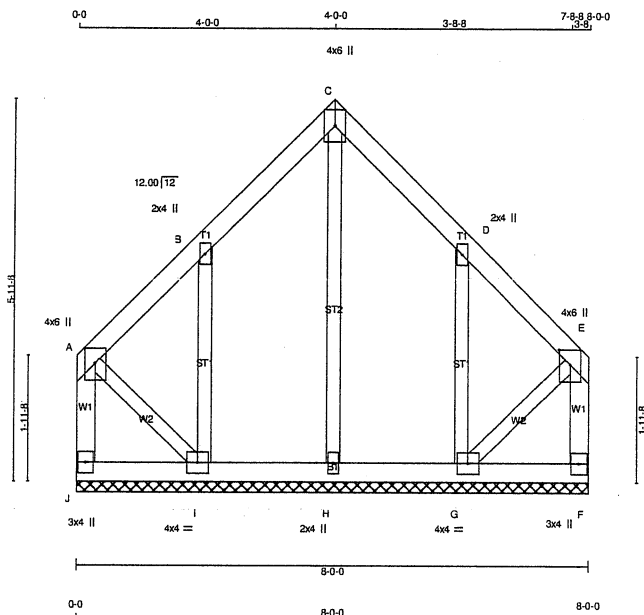


Structural component only
DWG# T-2115652

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	G27	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:41:53 2021 Page 1
ID:GAonzd6DLBr2xE89xtNtRz_BuP-9tRti6ho3AoAHWYZAs1ny1t1YyLx2PCnD3PN4YYzCwv



TOTAL WEIGHT = 40 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
J - A	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
J - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2'-0" OC.				

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN Y	X
A TMVW+p	MT20	4.0	6.0	2.75 2.00
B TMW+w	MT20	2.0	4.0	
C TTW+p	MT20	4.0	6.0	
D TMW+w	MT20	2.0	4.0	
E TMVW+p	MT20	4.0	6.0	2.75 2.00
F BMV1+p	MT20	3.0	4.0	
G BMWW1-t	MT20	4.0	4.0	
H BMW1+w	MT20	2.0	4.0	
I BMWW1-t	MT20	4.0	4.0	
J 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
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
J-A	-116 / 0	0.0 0.0 0.01 (1)	7.81	H-C	-107 / 0	0.06 (1)	
A-B	-24 / 0	-91.8 -91.8 0.06 (1)	6.25	I-B	-221 / 0	0.05 (1)	
B-C	-46 / 0	-91.8 -91.8 0.06 (1)	6.25	G-D	-221 / 0	0.05 (1)	
C-D	-46 / 0	-91.8 -91.8 0.06 (1)	6.25	A-I	0 / 37	0.01 (1)	
D-E	-24 / 0	-91.8 -91.8 0.06 (1)	6.25	G-E	0 / 37	0.01 (1)	
F-E	-116 / 0	0.0 0.0 0.01 (1)	7.81				
J-I	0 / 0	-18.5 -18.5 0.02 (4)	10.00				
I-H	0 / 22	-18.5 -18.5 0.02 (4)	10.00				
H-G	0 / 22	-18.5 -18.5 0.02 (4)	10.00				
G-F	0 / 0	-18.5 -18.5 0.02 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.06/1.00 (C-D:1), BC=0.02/1.00 (G-H:4), WB=0.06/1.00 (C-H:1), SSI=0.06/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

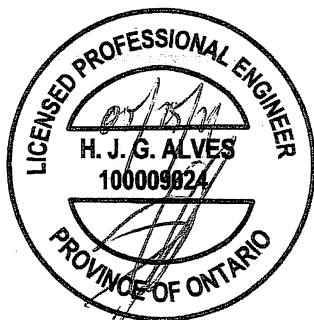
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.12 (D) (INPUT = 1.00)

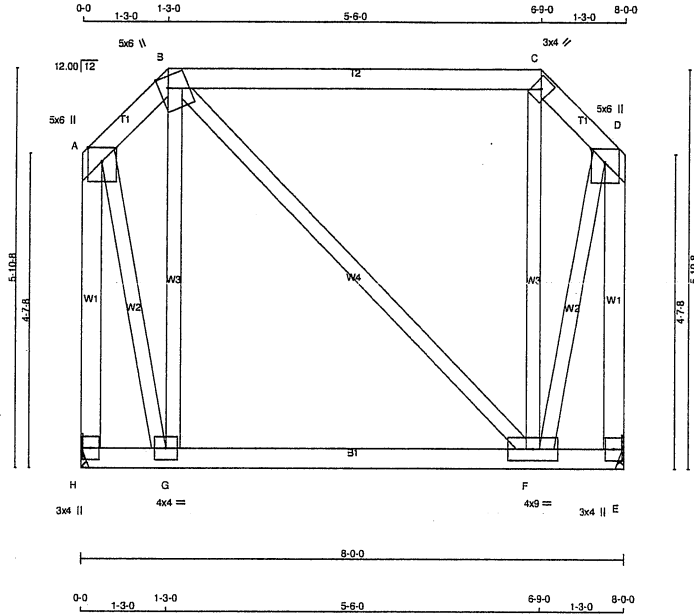


Structural component only
DWG# T-2115614

JOB NAME 411168	TRUSS NAME T28	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:42 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-DiuO_tHXWEzDg2o_YfQHRCZp65eMNM?RKWkAmCzCvux



TOTAL WEIGHT = 52 lb

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	2x4	DRY	No.2	SPF	
H - A	2x4	DRY	No.2	SPF	
E - D	2x4	DRY	No.2	SPF	
H - E	2x4	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A - B	TMVW+p	MT20	5.0	6.0	Edge	
B - C	TTWW+m	MT20	5.0	6.0	2.00	1.50
C - D	TTW+h	MT20	3.0	4.0		
D - E	TMVW+p	MT20	5.0	6.0	Edge	
E - F	BMV1+p	MT20	3.0	4.0		
F - G	BMVWW-t	MT20	4.0	9.0		
G - H	BMVWW-t	MT20	4.0	4.0		
H - E	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	HORZ	DOWN	HORZ
H	441	0	441	0
E	441	0	441	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED
H	312 205 / 0 0 / 0 0 / 0 0 / 0 107 / 0 0 / 0
E	312 205 / 0 0 / 0 0 / 0 0 / 0 107 / 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)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO	FROM	TO	FROM	TO	FROM	TO	FROM
A-B	-136 / 0	-91.8	-91.8	0.02 (1)	6.25	G-B	-212 / 0
B-C	-90 / 0	-91.8	-91.8	0.47 (1)	6.25	B-F	0 / 0
C-D	-135 / 0	-91.8	-91.8	0.02 (1)	6.25	F-C	-213 / 0
H-A	-453 / 0	0.0	0.0	0.17 (1)	7.81	A-G	0 / 314
E-D	-451 / 0	0.0	0.0	0.17 (1)	7.81	F-D	0 / 312
H-G	0 / 0	-18.5	-18.5	0.08 (4)	10.00		
G-F	0 / 91	-18.5	-18.5	0.09 (4)	10.00		
F-E	0 / 0	-18.5	-18.5	0.08 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.27")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.47/1.00 (B-C:1), BC=0.09/1.00 (F-G:4), WB=0.11/1.00 (C-F:1), SSI=0.20/1.00 (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

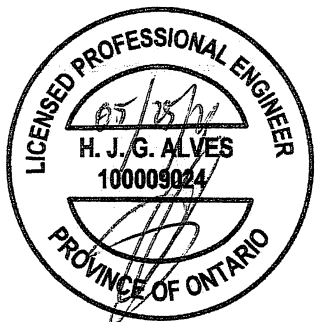
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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.

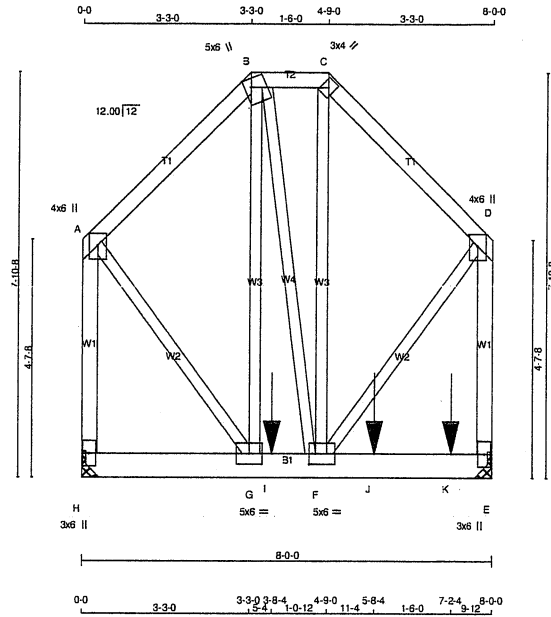
JSI GRIP= 0.72 (C) (INPUT = 0.90)
JSI METAL= 0.09 (G) (INPUT = 1.00)



Structural component only
DWG# T-2115653

JOB NAME 411168	TRUSS NAME T29	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:43 2021 Page 1
ID:GAonzd6DLBrD2xE89xtNtRz_BuP-hUSmCDI9HX54HCNA6MxW_Q62WVzE6pNaZAuklezCvuw



TOTAL WEIGHT = 2 X 62 = 124 lb

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	2x4 DRY No.2	SPF			
H - A	2x4 DRY No.2	SPF			
E - D	2x4 DRY No.2	SPF			
H - E	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 - B 1 12	TOP	
B - C 1 12	TOP	
C - D 1 12	TOP	
H - A 1 12	TOP	
E - D 1 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H - E 2 12	SIDE(183.1)	
WEBS : (0.122"x3") SPIRAL NAILS		
G - B 1 6	SIDE(87.3)	
2x3 1 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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	IN-SX	IN-SX
H	1253	0	1253	0
E	1963	0	1963	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
H	883 594 / 0 0 / 0 0 / 0 289 / 0 0 / 0
E	1384 932 / 0 0 / 0 0 / 0 451 / 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)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
MEMB.									
FR-TO									
A - B	-680 / 0	-91.8	-91.8	0.09 (1)	6.25	G - B	-60 / 6	0.03 (1)	
B - C	-538 / 0	-91.8	-91.8	0.02 (1)	6.25	B - F	0 / 330	0.04 (1)	
C - D	-759 / 0	-91.8	-91.8	0.09 (1)	6.25	F - C	0 / 321	0.04 (1)	
H - A	-1230 / 0	0.0	0.0	0.22 (1)	7.81	A - G	0 / 766	0.09 (1)	
E - D	-1355 / 0	0.0	0.0	0.24 (1)	7.81	F - D	0 / 854	0.11 (1)	
H - G	0 / 0	-18.5	-18.5	0.01 (4)	10.00				
G - I	0 / 478	-18.5	-18.5	0.17 (1)	10.00				
I - F	0 / 478	-18.5	-18.5	0.17 (1)	10.00				
F - J	0 / 0	-18.5	-18.5	0.18 (1)	10.00				
J - K	0 / 0	-18.5	-18.5	0.18 (1)	10.00				
K - E	0 / 0	-18.5	-18.5	0.18 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	3-8-4	-729	-729	---	FRONT	VERT	TOTAL	---	C1
J	5-8-4	-456	-456	---	FRONT	VERT	TOTAL	---	C1
K	7-2-4	-458	-458	---	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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.27")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.24/1.00 (D-E:1), BC=0.18/1.00 (E-F:1), WB=0.11/1.00 (D-F:1), SS=0.25/1.00 (E-F: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= 0.54 (C) (INPUT = 0.90)
JSI METAL= 0.16 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115654

CONTINUED ON PAGE 2

JOB NAME 411168	TRUSS NAME T29	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

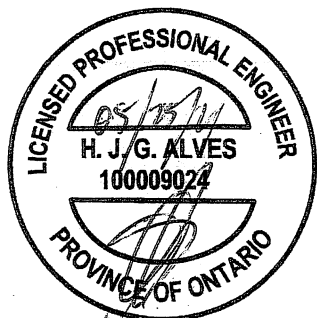
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:43 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	2.75	2.00
B	TTWW+m	MT20	5.0	6.0	2.00	1.50
C	TTW+h	MT20	3.0	4.0		
D	TMVW+p	MT20	4.0	6.0	2.75	2.00
E	BMV1+p	MT20	3.0	6.0		
F	BMWWW-t	MT20	5.0	6.0	2.50	1.50
G	BMWW-t	MT20	5.0	6.0		
H	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-2115654 *mn*



TOTAL WEIGHT = 64 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

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

UNFACTORED REACTIONS

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.37 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED

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

LOADING

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S				
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	0 / 35	-91.8	-91.8	0.14 (1)	10.00	H-C	-157 / 13	0.03 (1)
B-C	-926 / 0	-91.8	-91.8	0.19 (1)	6.16	C-G	-183 / 0	0.06 (1)
C-D	-811 / 0	-91.8	-91.8	0.18 (1)	6.25	G-H	-371 / 0	0.18 (1)
D-J	-649 / 0	-91.8	-91.8	0.80 (1)	5.37	G-E	0 / 911	0.23 (1)
J-K	-649 / 0	-91.8	-91.8	0.80 (1)	5.37	B-H	0 / 820	0.20 (1)
K-L	-649 / 0	-91.8	-91.8	0.80 (1)	5.37			
L-E	-649 / 0	-91.8	-91.8	0.80 (1)	5.37			
F-E	-992 / 0	0.0	0.0	0.57 (1)	7.81			
I-B	-1003 / 0	0.0	0.0	0.07 (1)	7.81			
I-M	0 / 0	-18.5	-18.5	0.04 (4)	10.00			
M-H	0 / 0	-18.5	-18.5	0.04 (4)	10.00			
H-N	0 / 786	-18.5	-18.5	0.13 (4)	10.00			
N-O	0 / 786	-18.5	-18.5	0.13 (4)	10.00			
O-G	0 / 786	-18.5	-18.5	0.13 (4)	10.00			
G-P	0 / 0	-18.5	-18.5	0.09 (4)	10.00			
P-Q	0 / 0	-18.5	-18.5	0.09 (4)	10.00			
Q-R	0 / 0	-18.5	-18.5	0.09 (4)	10.00			
R-F	0 / 0	-18.5	-18.5	0.09 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-6-4	-38	-38	---	FRONT	VERT	DEAD	---	C1
D	6-6-4	-165	-165	---	FRONT	VERT	SNOW	---	C1
J	6-11-4	-70	-70	---	BACK	VERT	TOTAL	---	C1
K	8-11-4	-51	-51	---	BACK	VERT	TOTAL	---	C1
L	10-11-4	-51	-51	---	BACK	VERT	TOTAL	---	C1
M	1-11-4	-14	-14	---	BACK	VERT	TOTAL	---	C1
N	3-11-4	-14	-14	---	BACK	VERT	TOTAL	---	C1
O	4-11-4	-14	-14	---	BACK	VERT	TOTAL	---	C1
P	6-11-4	-12	-12	---	BACK	VERT	TOTAL	---	C1
Q	8-11-4	-12	-12	---	BACK	VERT	TOTAL	---	C1
R	10-11-4	-12	-12	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***
ADDT'L 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 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.80/1.00 (D-E:1) , BC=0.13/1.00 (G-H:4) ,
WB=0.23/1.00 (E-G:1) , SSI=0.35/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

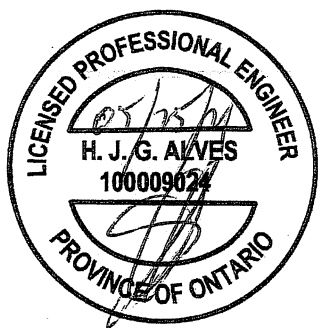
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (B) (INPUT = 0.90)
JSI METAL= 0.25 (B) (INPUT = 1.00)

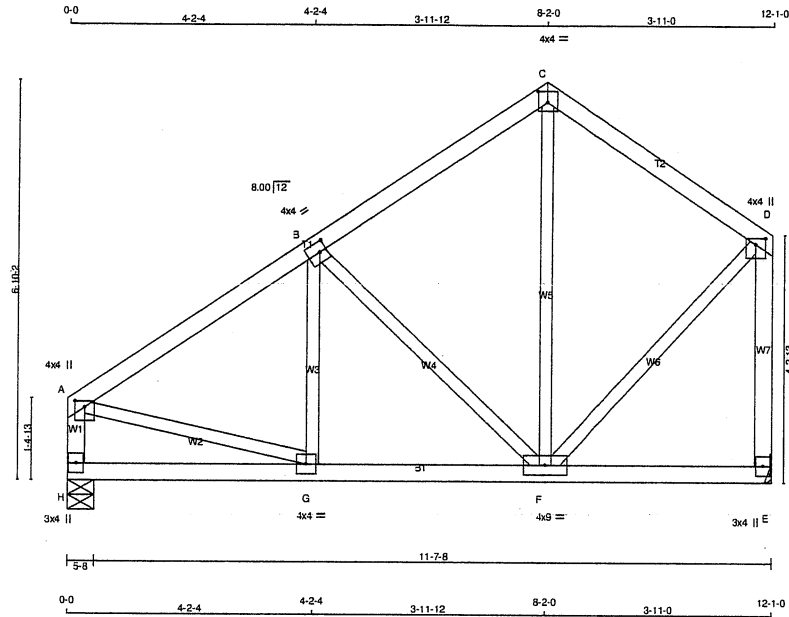


Structural component only
DWG# T-2115655

JOB NAME 411168	TRUSS NAME T31	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 56 = 112 lb
[M/F]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
H - A	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - E	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
A	TMVW+p	MT20	4.0	4.0	1.25 2.00
B	TMWW-t	MT20	4.0	4.0	2.00 1.50
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMV1+p	MT20	3.0	4.0	
F	BMWW-t	MT20	4.0	9.0	
G	BMWW-t	MT20	4.0	4.0	
H	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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	UPLIFT	IN-SX
H	666	0	666	0	5-8
E	666	0	666	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	471	309/0	0/0	0/0	0/0	162/0	0/0
E	471	309/0	0/0	0/0	0/0	162/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	-806 / 0	-91.8	-91.8 0.20 (1)	6.25	G-B	-55 / 47	0.02 (4)
B-C	-355 / 0	-91.8	-91.8 0.19 (1)	6.25	B-F	-349 / 0	0.18 (1)
C-D	-330 / 0	-91.8	-91.8 0.18 (1)	6.25	F-C	0 / 71	0.02 (4)
H-A	-633 / 0	0.0	0.0 0.07 (1)	7.81	A-G	0 / 542	0.12 (1)
E-D	-637 / 0	0.0	0.0 0.19 (1)	7.81	F-D	0 / 388	0.09 (1)
H-G	0 / 0	-18.5	-18.5 0.07 (4)	10.00			
G-F	0 / 524	-18.5	-18.5 0.12 (1)	10.00			
F-E	0 / 0	-18.5	-18.5 0.06 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.20/1.00 (A-B:1) , BC=0.12/1.00 (F-G:1) , WB=0.18/1.00 (B-F:1) , SSI=0.15/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.61 (G) (INPUT = 0.90)
JSI METAL= 0.18 (G) (INPUT = 1.00)

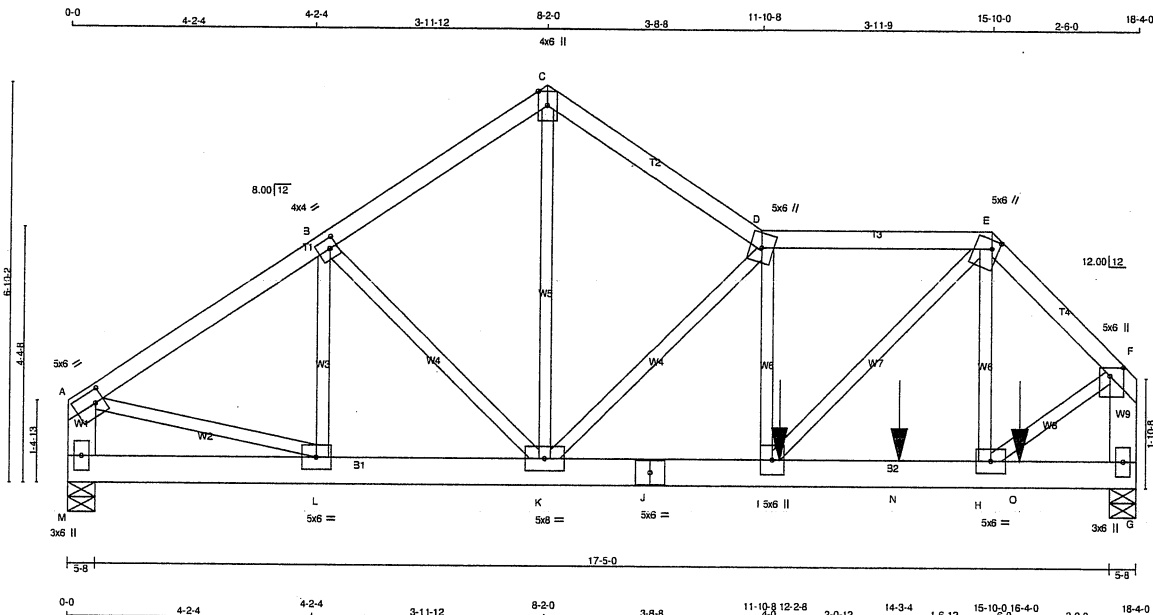


Structural component only
DWG# T-2115656

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T32	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 94 = 188 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - D	2x4	DRY	No.2	SPF	
D - E	2x4	DRY	No.2	SPF	
E - F	2x4	DRY	No.2	SPF	
M - A	2x6	DRY	No.2	SPF	
G - F	2x6	DRY	No.2	SPF	
M - J	2x6	DRY	No.2	SPF	
J - G	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	TOP
C - D	12	TOP
D - E	12	TOP
E - F	12	TOP
M - A	12	TOP
G - F	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
M - J	12	TOP
J - G	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
I - D	6	SIDE(183.1)
2x3	1	SIDE(324.1)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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	HORIZ	DOWN	HORIZ
M	1824	0	1824	0
G	2985	0	2985	0

UNFACTORED REACTIONS

	1ST CASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
M	1288	859 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0
G	2106	1412 / 0	0 / 0	0 / 0	0 / 0	694 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.86 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. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO									
A - B	-2143 / 0	-91.8	-91.8	0.15 (1)	5.90	L - B	-370 / 0	0.05 (1)	
B - C	-2127 / 0	-91.8	-91.8	0.15 (1)	5.92	B - K	-73 / 0	0.02 (1)	
C - D	-2099 / 0	-91.8	-91.8	0.14 (1)	5.96	K - C	0 / 2024	0.25 (1)	
D - E	-3459 / 0	-91.8	-91.8	0.18 (1)	4.86	K - D	-2498 / 0	0.62 (1)	
E - F	-2606 / 0	-91.8	-91.8	0.08 (1)	5.57	I - D	0 / 332	0.04 (1)	
M - A	-1774 / 0	0.0	0.0	0.06 (1)	7.81	I - E	0 / 2341	0.29 (1)	
G - F	-2981 / 0	0.0	0.0	0.12 (1)	7.81	H - E	-135 / 5	0.02 (1)	
						A - L	0 / 1847	0.23 (1)	
						H - F	0 / 2093	0.26 (1)	
M - L	0 / 0	-18.5	-18.5	0.03 (1)	10.00				
L - K	0 / 1800	-18.5	-18.5	0.13 (1)	10.00				
K - J	0 / 3451	-18.5	-18.5	0.28 (1)	10.00				
J - I	0 / 3451	-18.5	-18.5	0.28 (1)	10.00				
I - N	0 / 1828	-18.5	-18.5	0.23 (1)	10.00				
N - H	0 / 1828	-18.5	-18.5	0.23 (1)	10.00				
H - O	0 / 0	-18.5	-18.5	0.11 (1)	10.00				
O - G	0 / 0	-18.5	-18.5	0.11 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
I	12-2-8	-1369	-1369	---	BACK	VERT	TOTAL	---	C1
N	14-3-4	-297	-297	---	BACK	VERT	TOTAL	---	C1
O	16-4-0	-298	-298	---	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 6.00/12

*** NON STANDARD GIRDER ***

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.61")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.61")
CALCULATED VERT. DEFL.(TL)= L/999 (0.07")

CSI: TC=0.18/1.00 (D-E:1), BC=0.28/1.00 (I-K:1),
WB=0.62/1.00 (D-K:1), SSI=0.15/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (E) (INPUT = 0.90)
JSI METAL= 0.38 (F) (INPUT = 1.00)



Structural component only
DWG# T-2115657

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T32	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:47 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-aGiH2aLgLmbWmpgyLC?S8GGIN6Jg2UHAUoSxRPzCvus

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	6.0	2.50	1.75
B	TMWW-t	MT20	4.0	4.0	2.00	1.50
C	TTW+p	MT20	4.0	6.0	Edge	
D	TTWW+m	MT20	5.0	6.0		
E	TTWW+m	MT20	5.0	6.0	1.75	1.50
F	TMVW+p	MT20	5.0	6.0	1.75	2.75
G	BMV1+p	MT20	3.0	6.0		
H	BMWW-t	MT20	5.0	6.0		
I	BMWW-t	MT20	5.0	6.0		
J	BS-t	MT20	5.0	6.0		
K	BMWW-t	MT20	5.0	8.0		
L	BMWW-t	MT20	5.0	6.0		
M	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

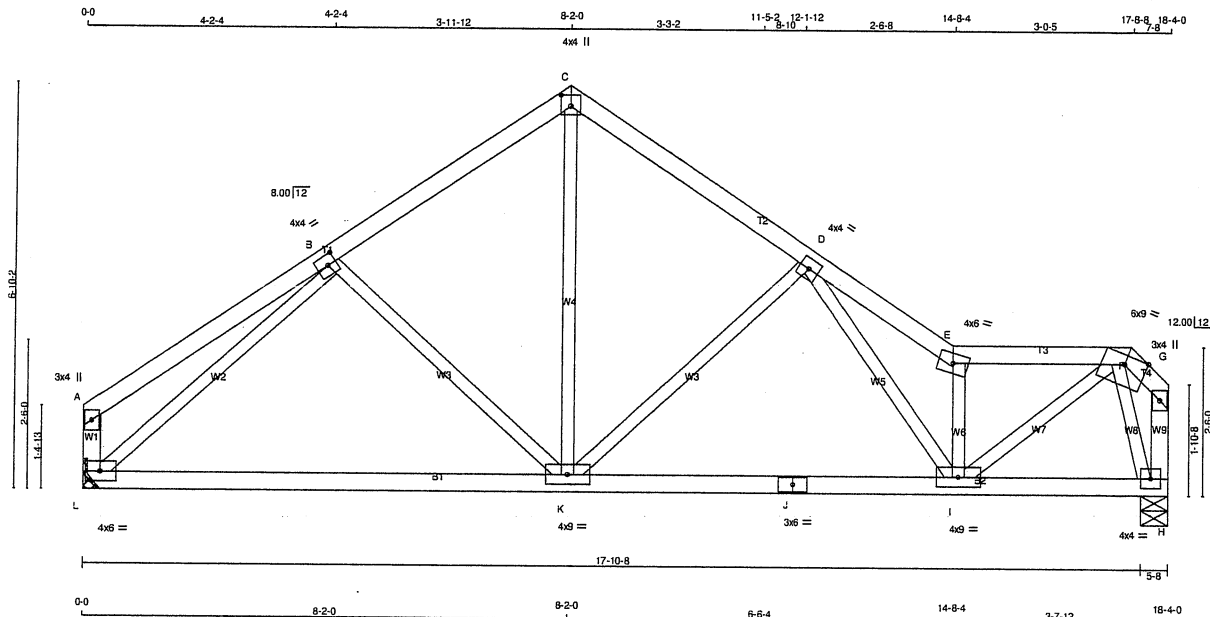


Structural component only
DWG# T-2115657 *W*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T33	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:42:48 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNRz_BuP-2SGfFwMl64kMOzF8uvXhhTpvEWdKnxsKISBV_szCvur



TOTAL WEIGHT = 76 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	
E - F	2x4	DRY	No.2	SPF	
F - G	2x4	DRY	No.2	SPF	
L - A	2x4	DRY	No.2	SPF	
H - G	2x4	DRY	No.2	SPF	
L - 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
A	TMV+p	MT20	3.0	4.0		
B	TMWW-t	MT20	4.0	4.0	2.00	1.75
C	TTW+p	MT20	4.0	4.0	2.25	2.00
D	TMWW-t	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	6.0		
F	TTWW-m	MT20	6.0	9.0	Edge	
G	TMV+p	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	4.0		
I	BMVWW-t	MT20	4.0	9.0		
J	BS-t	MT20	3.0	6.0		
K	BMVWW-t	MT20	4.0	9.0		
L	BMVW1-t	MT20	4.0	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

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UP
L	1011	0	1011	0
H	1011	0	1011	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
L	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
L	715	489 / 0	0 / 0	0 / 0	246 / 0	0 / 0
H	715	489 / 0	0 / 0	0 / 0	246 / 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 = 5.05 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)	MAX. FACTORED VERT. LOAD (LC4)	MAX. FACTORED VERT. LOAD (LC5)	MAX. FACTORED VERT. LOAD (LC6)	MAX. FACTORED VERT. LOAD (LC7)	MAX. FACTORED VERT. LOAD (LC8)	MAX. FACTORED VERT. LOAD (LC9)	MAX. FACTORED VERT. LOAD (LC10)
FR-TO												
A-B	0 / 24	-91.8	-91.8	0.24 (1)	10.00	B-K	-197 / 0	0.10 (1)				
B-C	-889 / 0	-91.8	-91.8	0.19 (1)	6.25	K-C	0 / 662	0.15 (1)				
C-D	-885 / 0	-91.8	-91.8	0.18 (1)	6.25	K-D	-528 / 0	0.28 (1)				
D-E	-1606 / 0	-91.8	-91.8	0.18 (1)	5.05	D-I	0 / 469	0.11 (1)				
E-F	-1315 / 0	-91.8	-91.8	0.12 (1)	5.52	I-E	-1100 / 0	0.17 (1)				
F-G	0 / 0	-91.8	-91.8	0.01 (1)	10.00	L-B	-1182 / 0	0.60 (1)				
L-A	-144 / 0	0.0	0.0	0.01 (1)	7.81	F-H	-994 / 0	0.16 (1)				
H-G	-31 / 0	0.0	0.0	0.00 (1)	7.81	I-F	0 / 1289	0.29 (1)				
L-K	0 / 865	-18.5	-18.5	0.35 (4)	10.00							
K-J	0 / 1107	-18.5	-18.5	0.38 (4)	10.00							
J-I	0 / 1107	-18.5	-18.5	0.38 (4)	10.00							
I-H	0 / 295	-18.5	-18.5	0.09 (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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (0.61")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.61")
CALCULATED VERT. DEFL.(TL)= L/999 (0.14")

CSI: TC=0.24/1.00 (A-B:1), BC=0.38/1.00 (H-K:4), WB=0.60/1.00 (B-L:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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= 0.85 (C) (INPUT = 0.90)
JSI METAL= 0.42 (J) (INPUT = 1.00)

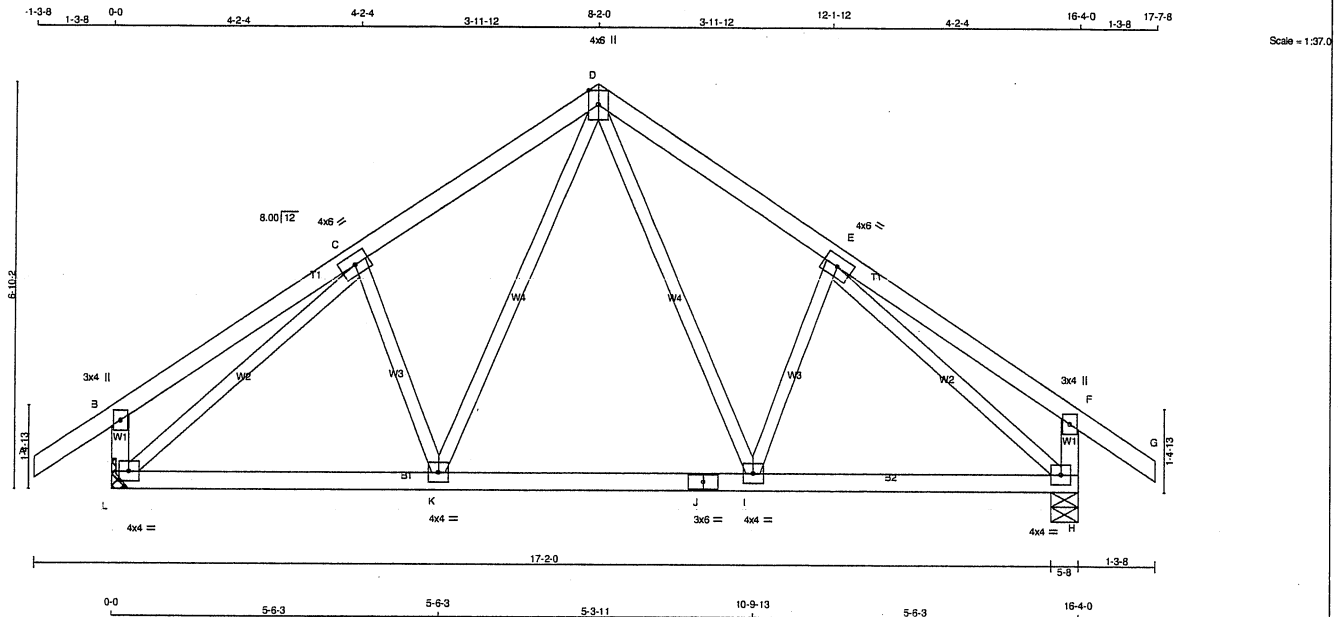


Structural component only
DWG# T-2115658

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T34	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:49 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-Weq1TGMwtNsD77qKSd2wDhM4yw0UWPFtx6x2WlzCvuq



TOTAL WEIGHT = 73 lb
[M][F]

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER	DESCR	
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
L - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
L - 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	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	6.0		
D	TTWW+p	MT20	4.0	6.0		Edge
E	TMWW-t	MT20	4.0	6.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	4.0		
I	BMVW-t	MT20	4.0	4.0		
J	BS-t	MT20	3.0	6.0		
K	BMVW-t	MT20	4.0	4.0		
L	BMVW-t	MT20	4.0	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
L	1026	0	1026	0
H	1026	0	1026	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	723	488 / 0	0 / 0	0 / 0	0 / 0	235 / 0	0 / 0
H	723	488 / 0	0 / 0	0 / 0	0 / 0	235 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	D-I	0 / 338	0.08 (1)
B-C	0 / 24	-91.8 -91.8	0.24 (1)	10.00	I-E	-219 / 0	0.06 (1)
C-D	-851 / 0	-91.8 -91.8	0.19 (1)	6.25	K-D	0 / 338	0.08 (1)
D-E	-851 / 0	-91.8 -91.8	0.19 (1)	6.25	C-K	-219 / 0	0.06 (1)
E-F	0 / 24	-91.8 -91.8	0.24 (1)	10.00	L-C	-1048 / 0	0.53 (1)
F-G	0 / 35	-91.8 -91.8	0.12 (1)	10.00	E-H	-1048 / 0	0.53 (1)
L-B	-269 / 0	0.0 0.0	0.03 (1)	7.81			
H-F	-269 / 0	0.0 0.0	0.03 (1)	7.81			
L-K	0 / 767	-18.5 -18.5	0.19 (1)	10.00			
K-J	0 / 561	-18.5 -18.5	0.17 (4)	10.00			
J-I	0 / 561	-18.5 -18.5	0.17 (4)	10.00			
I-H	0 / 767	-18.5 -18.5	0.19 (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

ALLOWABLE DEFL.(LL) = $L/360$ (0.54")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.54")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.05")

CSI: TC=0.24/1.00 (B-C:1), BC=0.19/1.00 (K-L:1), WB=0.53/1.00 (C-L:1), SSI=0.15/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (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 = 0.90)
JSI METAL = 0.26 (H) (INPUT = 1.00)

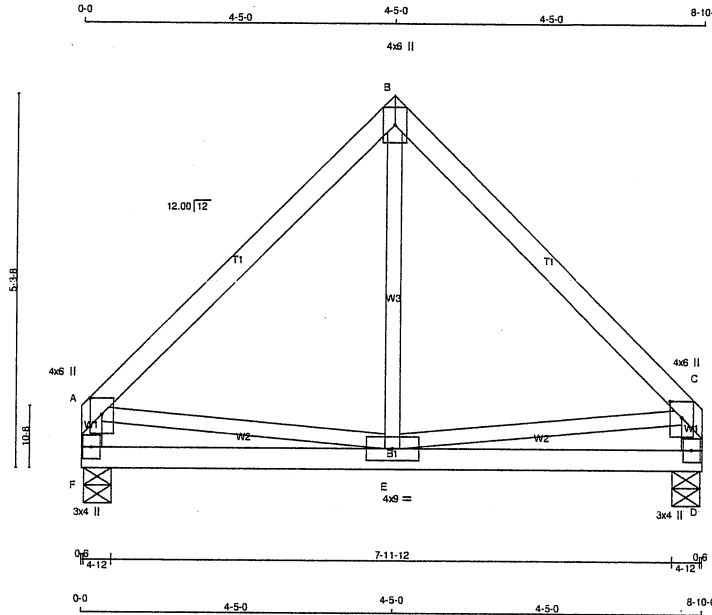


Structural component only
DWG# T-2115659

JOB NAME 411168	TRUSS NAME T35	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNrZ_BuP-_qNQgcNYeh_4dGPW0KZ9muuFvKN5F_ycAmgb2kzCvup



TOTAL WEIGHT = 36 lb
[M/F]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	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 EXCEPT	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	6.0	2.75	2.00
B	TTW+p	MT20	4.0	6.0		
C	TMVW+p	MT20	4.0	6.0	2.75	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

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	IN-SX	IN-SX	IN-SX	IN-SX
F	487	0	487	0	4-12	4-12	4-12	4-12
D	487	0	487	0	4-12	4-12	4-12	4-12

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	344	226 / 0	0 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0
D	344	226 / 0	0 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	-319 / 0	-91.8	-91.8 0.23 (1)	E-B	0 / 94	0.03 (4)	0.03 (4)
B-C	-319 / 0	-91.8	-91.8 0.23 (1)	A-E	0 / 227	0.05 (1)	0.05 (1)
F-A	-455 / 0	0.0	0.0 0.05 (1)	E-C	0 / 227	0.05 (1)	0.05 (1)
D-C	-455 / 0	0.0	0.0 0.05 (1)				
F-E	0 / 0	-18.5	-18.5 0.10 (4)				
E-D	0 / 0	-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/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

ALLOWABLE DEFL.(LL)= L/360 (0.29")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL)= L/999 (0.01")

CSI: TC=0.23/1.00 (B-C:1), BC=0.10/1.00 (E-F:4), WB=0.05/1.00 (A-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.30 (A) (INPUT = 0.90)
JSI METAL= 0.17 (C) (INPUT = 1.00)

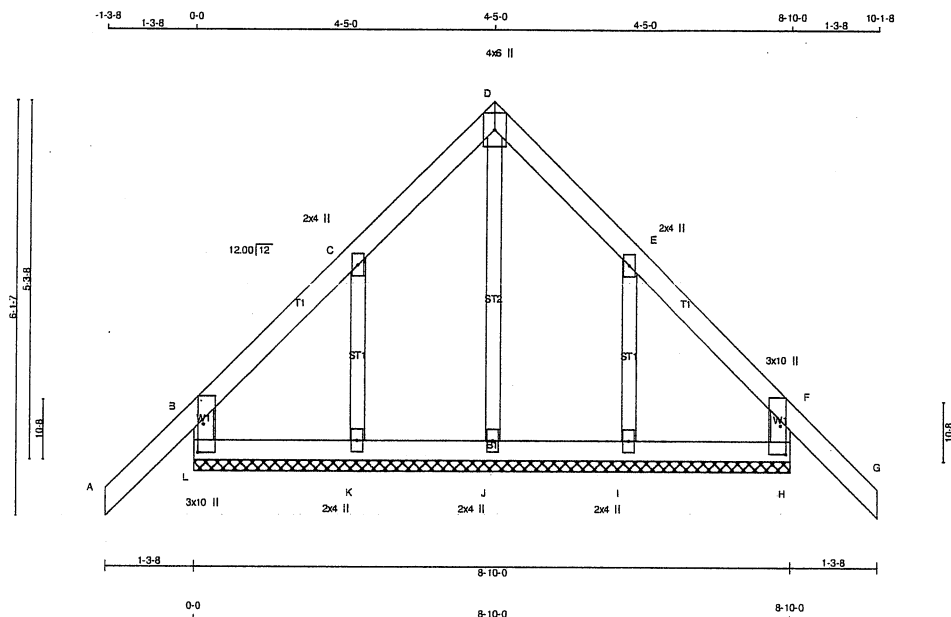


Structural component only
DWG# T-2115660

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	G35	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1:32.4

TOTAL WEIGHT = 38 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
L - B	2x4	DRY	No.2	SPF	
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
L - H	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
ALL GABLE WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT	2'-0-0	OC.			

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B, F, H, L						
C	TMW+w	MT20	2.0	4.0		
D	TTW+p	MT20	4.0	6.0		
E	TMW+w	MT20	2.0	4.0		
F	TMBMV1+p	MT20	3.0	10.0	5.00	1.00
I, J, K						
I	BMW1+w	MT20	2.0	4.0		
L	TMBMV1+p	MT20	3.0	10.0	5.00	1.00

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									
BEARINGS									
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.									
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.									
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO	MAX. FACTORED FORCE (LBS)
L-B	-278 / 0	0.0	0.0	0.02 (1)	7.81	J-D	-124 / 0	0.05 (1)	
A-B	0 / 45	-91.8	-91.8	0.13 (1)	10.00	K-C	-194 / 0	0.04 (1)	
B-C	-59 / 0	-91.8	-91.8	0.06 (1)	6.25	I-E	-194 / 0	0.04 (1)	
C-D	-48 / 0	-91.8	-91.8	0.05 (1)	6.25				
D-E	-48 / 0	-91.8	-91.8	0.05 (1)	6.25				
E-F	-59 / 0	-91.8	-91.8	0.06 (1)	6.25				
F-G	0 / 45	-91.8	-91.8	0.13 (1)	10.00				
H-F	-278 / 0	0.0	0.0	0.02 (1)	7.81				
L-K	0 / 40	-18.5	-18.5	0.02 (4)	10.00				
K-J	0 / 33	-18.5	-18.5	0.02 (4)	10.00				
J-I	0 / 33	-18.5	-18.5	0.02 (4)	10.00				
I-H	0 / 40	-18.5	-18.5	0.02 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, 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

CSI: TC=0.13/1.00 (A-B:1), BC=0.02/1.00 (H-I:4),
WB=0.05/1.00 (D-J:1), SS=0.07/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

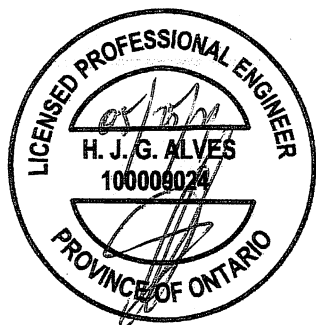
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

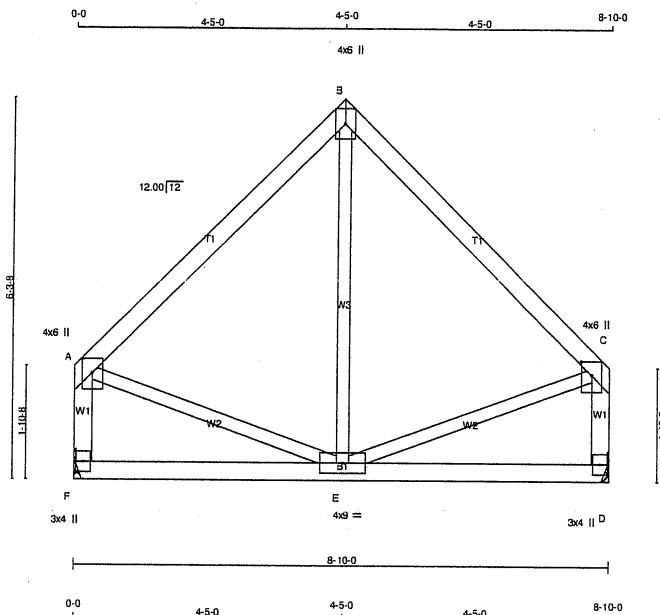
JSI GRIP = 0.15 (E) (INPUT = 0.90)
JSI METAL = 0.10 (E) (INPUT = 1.00)



Structural component only
DWG# T-2115615

JOB NAME 411168	TRUSS NAME T36	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:36.2

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	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	6.0	2.75	2.00
B	TTW+p	MT20	4.0	6.0		
C	TMVW+p	MT20	4.0	6.0	2.75	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

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	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
F	487	0	487	0	0	MECHANICAL			
D	487	0	487	0	0	MECHANICAL			

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 LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	344	226 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 0	0 / 0
D	344	226 / 0	0 / 0	0 / 0	0 / 0	118 / 0	0 / 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)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	-266 / 0	-91.8	-91.8 0.23 (1)	6.25	E-B	-29 / 65	0.02 (4)
B-C	-266 / 0	-91.8	-91.8 0.23 (1)	6.25	A-E	0 / 199	0.04 (1)
F-A	-456 / 0	0.0	0.0 0.05 (1)	7.81	E-C	0 / 199	0.04 (1)
D-C	-456 / 0	0.0	0.0 0.05 (1)	7.81			
F-E	0 / 0	-18.5	-18.5 0.10 (4)	10.00			
E-D	0 / 0	-18.5	-18.5 0.10 (4)	10.00			

TOTAL WEIGHT = 40 lb
(M)(F)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCO 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 (0.29")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.23/1.00 (B-C:1), BC=0.10/1.00 (E-F:4), WB=0.04/1.00 (A-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.30 (C) (INPUT = 0.90)
JSI METAL= 0.15 (C) (INPUT = 1.00)

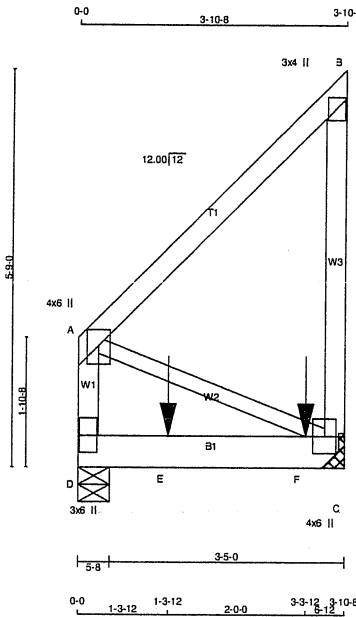


Structural component only
DWG# T-2115661

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T37	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale: 3/8"=1'

TOTAL WEIGHT = 2 X 23 = 47 lb [M]

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 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	6.0	2.75	2.00
B	TMV+p	MT20	3.0	4.0		
C	BMVW1+p	MT20	4.0	6.0		
D	BMV1+p	MT20	3.0	6.0		

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

BEARINGS	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	MECHANICAL	
JT								
D	1016	0	1016	0	0	5-8	5-8	
C	1415	0	1415	0	0			

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	717	480/0	0/0	0/0	0/0	237/0	0/0
C	997	675/0	0/0	0/0	0/0	321/0	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 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 MAX CSI (LC)	
FR-TO		FROM TO		FR-TO			
D - A	-178 / 0	0.0 0.0 0.01 (1)	7.81	A - C	0 / 0	0.00 (1)	
A - B	0 / 0	-91.8 -91.8 0.13 (1)	10.00				
C - B	-178 / 0	0.0 0.0 0.05 (1)	7.81				
D - E	0 / 0	-18.5 -18.5 0.40 (1)	10.00				
E - F	0 / 0	-18.5 -18.5 0.40 (1)	10.00				
F - C	0 / 0	-18.5 -18.5 0.40 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	1-3-12	-700	-700	---	BACK	VERT	TOTAL	---	C1
F	3-3-12	-712	-712	---	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 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 (0.19")
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=0.13/1.00 (A-B:1), BC=0.40/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SSI=0.41/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

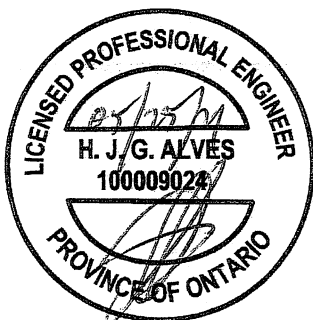
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.06 (A) (INPUT = 0.90)
JSI METAL= 0.03 (B) (INPUT = 1.00)

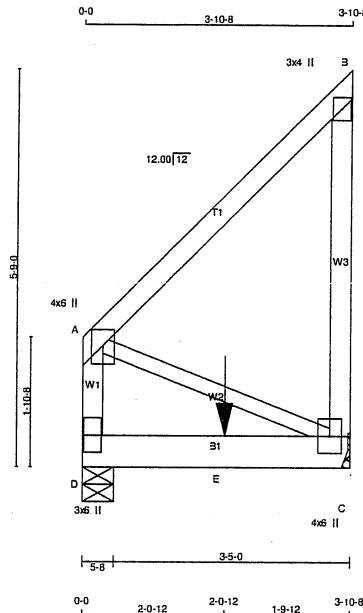


Structural component only
DWG# T-2115662

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	T37Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale: 3/8"=1'

TOTAL WEIGHT = 2 X 23 = 47 lb [M]

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 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	6.0	2.75	2.00
B	TMV+p	MT20	3.0	4.0		
C	BMVW1+p	MT20	4.0	6.0		
D	BMV1+p	MT20	3.0	6.0		

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
D	433	0	433	0
C	463	0	463	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	305	205 / 0	0 / 0	0 / 0	0 / 0	0 / 0	100 / 0	0 / 0
C	327	219 / 0	0 / 0	0 / 0	0 / 0	0 / 0	107 / 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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	CS1 (LC)	UNBRAC LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO							FR-TO		
D-A	-178 / 0	0.0	0.0	0.01 (1)	7.81	7.81	A-C	0 / 0	0.00 (1)
A-B	0 / 0	-91.8	-91.8	0.13 (1)	10.00	10.00			
C-B	-178 / 0	0.0	0.0	0.05 (1)	7.81	7.81			
D-E	0 / 0	-18.5	-18.5	0.18 (1)	10.00	10.00			
E-C	0 / 0	-18.5	-18.5	0.18 (1)	10.00	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-0-12	-330	-330	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

CSI: TC=0.13/1.00 (A-B:1), BC=0.18/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SSI=0.09/1.00 (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

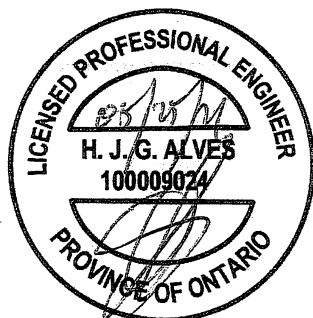
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	650	371	1747
	MAX	MIN	MAX
	MIN	MAX	MIN

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.06 (A) (INPUT = 0.90)

JSI METAL= 0.03 (B) (INPUT = 1.00)

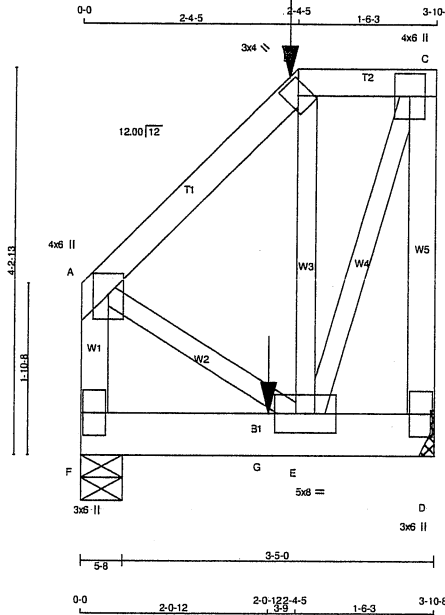


Structural component only
DWG# T-2115663

JOB NAME 411168	TRUSS NAME T38	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 26 = 52 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4 DRY	No.2	SPF		
B - C	2x4 DRY	No.2	SPF		
D - C	2x4 DRY	No.2	SPF		
F - A	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 SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122\"X3\") SPIRAL NAILS		
A - B 1 12		SIDE(61.0)
B - C 1 12		SIDE(61.0)
C - D 1 12		TOP
F - A 1 12		TOP
BOTTOM CHORDS : (0.122\"X3\") SPIRAL NAILS		
F - D 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 is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	6.0	2.75 2.00

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
D	530	0	530	0	5-8	MECHANICAL	5-8	
F	476	0	476	0	5-8	MECHANICAL	5-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	373	257 / 0	0 / 0	0 / 0	0 / 0	116 / 0	0 / 0
F	335	229 / 0	0 / 0	0 / 0	0 / 0	106 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FORCE (LBS)	FACTORED			MEMB.	MAX. FORCE (LBS)	FACTORED		
		VERT. LOAD (PLF)	LC1	MAX CSI (LC)					
FR-TO		FROM	TO		UNBRACED LENGTH	FR-TO			
A-B	-244 / 0	-91.8	-91.8	0.05 (1)	6.25	E-B	-118 / 0	0.02 (1)	
B-C	-168 / 0	-91.8	-91.8	0.02 (1)	6.25	E-C	0 / 489	0.06 (1)	
D-C	-526 / 0	0.0	0.0	0.07 (1)	7.81	A-E	0 / 198	0.02 (1)	
F-A	-382 / 0	0.0	0.0	0.02 (1)	7.81				
F-G	0 / 0	-18.5	-18.5	0.06 (1)	10.00				
G-E	0 / 0	-18.5	-18.5	0.06 (1)	10.00				
E-D	0 / 0	-18.5	-18.5	0.01 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-4-5	-15	-15	---	FRONT	VERT	DEAD	---	C1
B	2-4-5	-61	-61	---	FRONT	VERT	SNOW	---	C1
G	2-0-12	-330	-330	---	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

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.19")
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=0.07/1.00 (C-D:1), BC=0.06/1.00 (E-F:1), WB=0.06/1.00 (C-E:1), SSI=0.14/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2115664

CONTINUED ON PAGE 2

JOB NAME 411168	TRUSS NAME T38	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

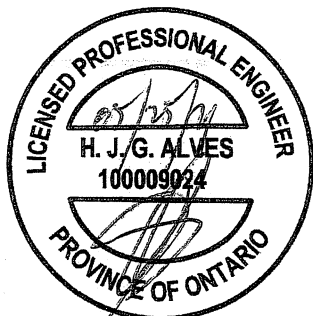
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:55 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TTW+h	MT20	3.0	4.0		
C	TMVW+p	MT20	4.0	6.0		
D	BMV1+p	MT20	3.0	6.0		
E	BMWVW-t	MT20	5.0	8.0		
F	BMV1+p	MT20	3.0	6.0		

NOTES- (1)

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

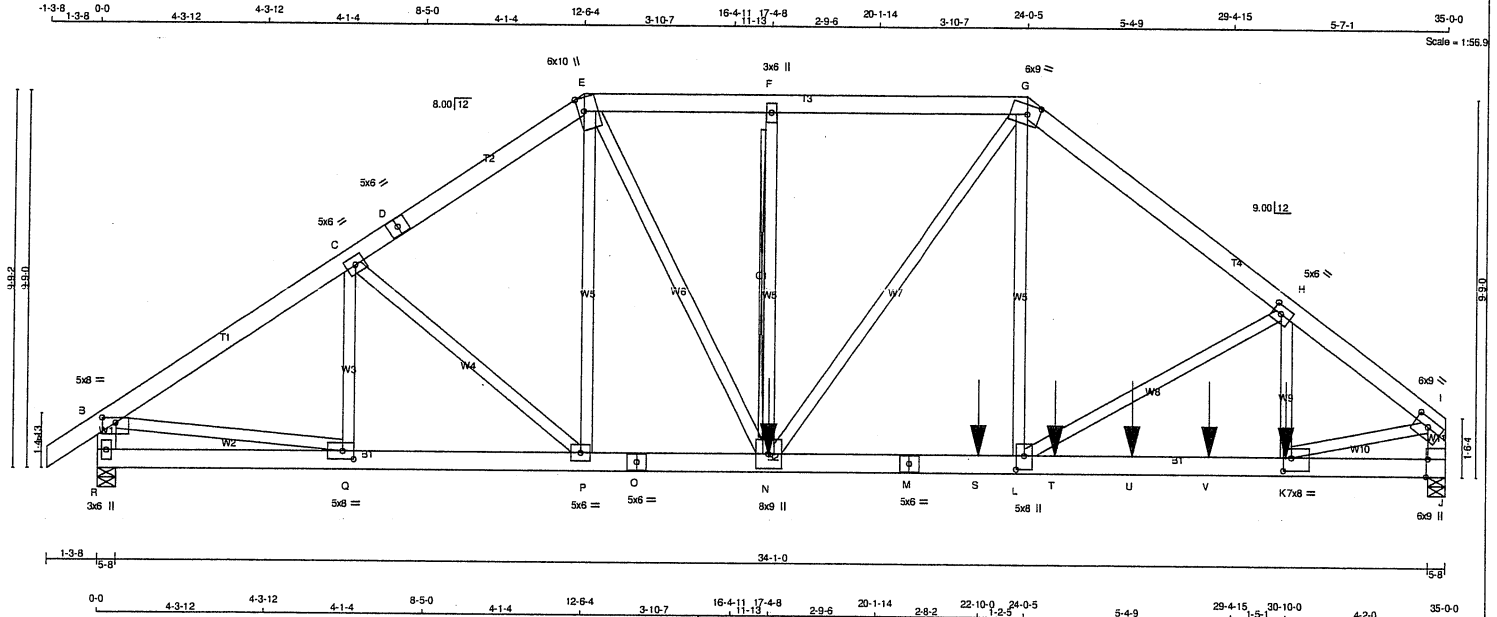


Structural component only
DWG# T-2115664 *m*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411169	T50	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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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
R - B	2x6	DRY	No.2 SPF
J - I	2x6	DRY	No.2 SPF
R - O	2x6	DRY	1650F 1.5E SPF
O - M	2x6	DRY	1650F 1.5E SPF
M - J	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 - D	2	12
D - E	2	12
E - G	2	12
G - I	2	12
R - B	2	12
J - I	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
R - O	2	12
O - M	2	12
M - J	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
F - N	1	5
H - K	1	5
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	REQD
JT	VERT	HORZ	UPLIFT	BRG
R	5741	0	0	5-8
J	8968	0	0	5-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	4068	2622 / 0	0 / 0	0 / 0	0 / 0	1446 / 0	0 / 0
J	6365	4043 / 0	0 / 0	0 / 0	0 / 0	2322 / 0	0 / 0

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

BRACING

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

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

2x4 DRY SPF No.2 T-BRACE AT F-N

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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	FACTORED	VERT. LOAD	MAX	MAX. UNBRACED LENGTH	MEMB.	WEBS	FACTORED	MAX
		FORCE (LBS)	PLF	CSI (LC)	FROM TO			FORCE (LBS)	CSI (LC)
FR-TO						FR-TO			
A-B	0 / 36	-91.8	-91.8	0.04 (1)	10.00	Q-C	-842 / 0	0.14 (1)	
B-C	-7873 / 0	-91.8	-91.8	0.26 (1)	4.14	C-P	0 / 114	0.01 (1)	
C-D	-8053 / 0	-91.8	-91.8	0.26 (1)	4.10	P-E	0 / 114	0.01 (4)	
D-E	-8053 / 0	-91.8	-91.8	0.26 (1)	4.10	E-N	0 / 4426	0.39 (1)	
E-F	-8717 / 0	-91.8	-91.8	0.20 (1)	3.99	L-G	0 / 4173	0.37 (1)	
F-G	-8717 / 0	-91.8	-91.8	0.28 (1)	3.92	L-H	-1296 / 0	0.62 (1)	
G-H	-9824 / 0	-91.8	-91.8	0.40 (1)	3.67	K-H	0 / 891	0.08 (1)	
H-I	-11155 / 0	-91.8	-91.8	0.26 (1)	3.53	B-Q	0 / 6638	0.59 (1)	
I-B	-5687 / 0	0.0	0.0	0.20 (1)	6.18	K-I	0 / 9201	0.81 (1)	
J-I	-9014 / 0	0.0	0.0	0.32 (1)	5.02	N-F	-537 / 0	0.20 (1)	
						N-G	0 / 1407	0.12 (1)	
R-Q	0 / 0	-18.5	-18.5	0.04 (1)	10.00				
Q-P	0 / 6576	-18.5	-18.5	0.30 (1)	10.00				
P-O	0 / 6665	-18.5	-18.5	0.31 (1)	10.00				
O-N	0 / 6665	-18.5	-18.5	0.31 (1)	10.00				
N-M	0 / 7897	-43.5	-43.5	0.80 (1)	10.00				
M-S	0 / 7897	-43.5	-43.5	0.80 (1)	10.00				
S-L	0 / 7897	-43.5	-43.5	0.80 (1)	10.00				
L-T	0 / 8945	-43.5	-43.5	0.84 (1)	10.00				
T-U	0 / 8945	-43.5	-43.5	0.84 (1)	10.00				
U-V	0 / 8945	-43.5	-43.5	0.84 (1)	10.00				
V-K	0 / 8945	-43.5	-43.5	0.84 (1)	10.00				
K-J	0 / 0	-86.0	-86.0	0.24 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
K	30-10-0	-348	-348	---	FRONT	VERT	---	C1
K	30-10-0	-721	-721	---	FRONT	VERT	---	C1
N	17-4-8	-3154	-3154	---	FRONT	VERT	---	C1
S	22-10-0	-348	-348	---	FRONT	VERT	---	C1
S	22-10-0	-721	-721	---	FRONT	VERT	---	C1
T	24-10-0	-198	-198	---	FRONT	VERT	---	C1
T	24-10-0	-417	-417	---	FRONT	VERT	---	C1
U	26-10-0	-198	-198	---	FRONT	VERT	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CStdGirder
START DISTANCE = 30-10-0
START SPAN CARRIED = 4-0-0
END DISTANCE = 35-0-0
END SPAN CARRIED = 4-0-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

*** 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 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.33")

CSI: TC=0.40/1.00 (G-H:1), BC=0.84/1.00 (K-L:1), WB=0.81/1.00 (H-K:1), SS=0.59/1.00 (K-L: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 650 371 1747 788 1987 1873

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115670

JOB NAME 411169	TRUSS NAME T50	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:GAonzd6DLBr2xE89xtNtRz BuP-knnlcfNcfzbfGSik2tOONaAAmqnKrr 0s9QeAzCviC

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.50	4.00
C	TMWW-t	MT20	5.0	6.0		
D	TS-t	MT20	5.0	6.0		
E	TTWW+m	MT20	6.0	10.0	Edge	1.75
F	TMW+w	MT20	3.0	6.0		
G	TTWW-m	MT20	6.0	9.0	3.00	3.75
H	TMWW-t	MT20	5.0	6.0	2.50	2.75
I	TMVW-t	MT20	6.0	9.0	2.50	4.50
J	BMV1+t	MT20	6.0	9.0	Edge	0.50
K	BMWW-t	MT20	7.0	8.0	4.00	2.50
L	BMWW+t	MT20	5.0	8.0	4.25	2.50
M	BS-t	MT20	5.0	6.0		
N	BMWWW+t	MT20	8.0	9.0		
O	BS-t	MT20	5.0	6.0		
P	BMWW-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	8.0	2.50	3.50
R	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.
U	26-10-0	-417	-417	---	FRONT	VERT	SNOW	---	C1
V	28-10-0	-198	-198	---	FRONT	VERT	DEAD	---	C1
V	28-10-0	-417	-417	---	FRONT	VERT	SNOW	---	C1

CONNECTION REQUIREMENTS

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.89 (I) (INPUT = 1.00)

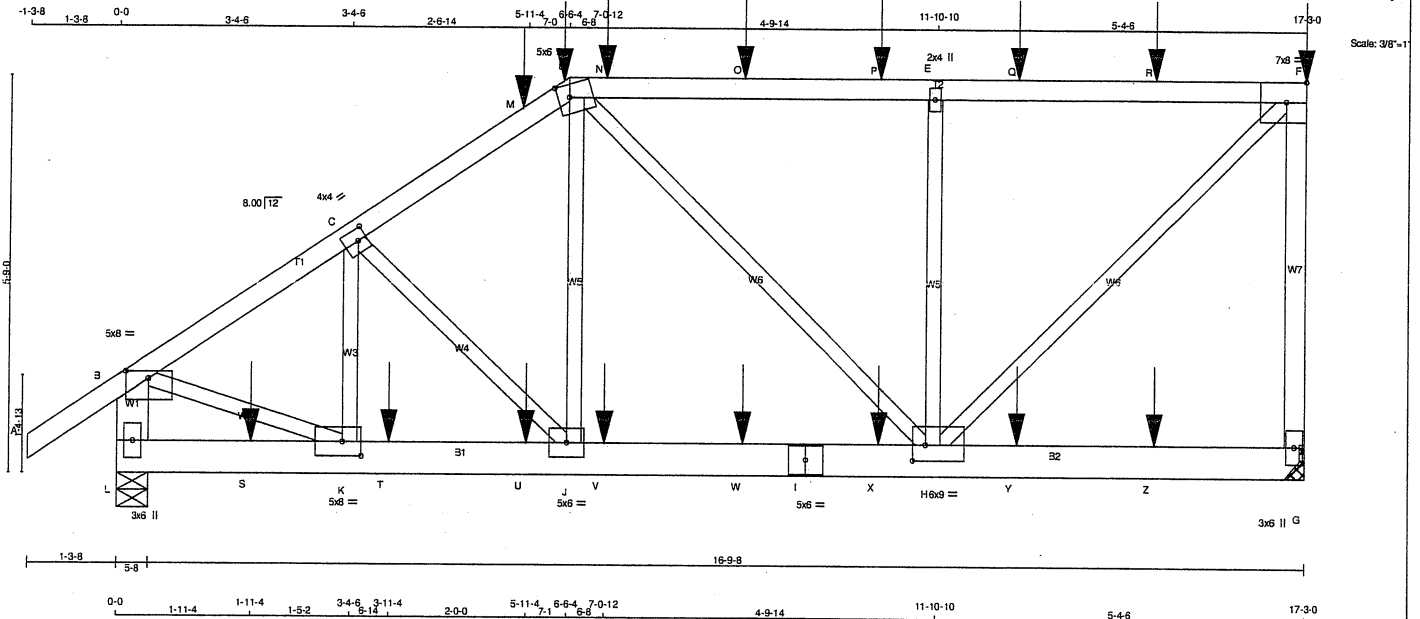


Structural component only
DWG# T-2115670

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411169	T51	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:55:14 2021 Page 1
ID:GAonzd6DLBr2xE89xtNtRz_BuP-CzLgp?NEQHjWuchWbbvdwniEIEGRaNC7FWvzAczCvjB



TOTAL WEIGHT = 89 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
G - F	2x4	DRY	No.2	SPF
L - B	2x6	DRY	No.2	SPF
L - I	2x6	DRY	No.2	SPF
I - 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	5.0	8.0	1.25	4.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTVW-m	MT20	5.0	8.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TMVW-t	MT20	7.0	8.0	Edge	3.50
G	BMV1+p	MT20	3.0	6.0		
H	BMVWW-t	MT20	6.0	9.0	2.75	2.25
I	BS-t	MT20	5.0	6.0		
J	BMVW-t	MT20	5.0	6.0		
K	BMVW-t	MT20	5.0	8.0	2.50	3.25
L	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
G	1564	0	1564	0	5-8	5-8
L	1551	0	1551	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					SOIL
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	
G	1102	745 / 0	0 / 0	0 / 0	0 / 0	358 / 0	0 / 0
L	1094	735 / 0	0 / 0	0 / 0	0 / 0	359 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 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		MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
			FROM	TO				
A-B	0 / 35	-91.8	-91.8	0.14 (1)	10.00	K-C	-330 / 0	0.07 (1)
B-C	-1551 / 0	-91.8	-91.8	0.22 (1)	5.02	C-J	-59 / 0	0.02 (1)
C-M	-1527 / 0	-91.8	-91.8	0.22 (1)	5.05	J-D	0 / 188	0.06 (4)
M-D	-1527 / 0	-91.8	-91.8	0.22 (1)	5.05	D-H	-159 / 0	0.17 (1)
D-N	-1157 / 0	-91.8	-91.8	0.77 (1)	4.44	H-E	-891 / 0	0.43 (1)
N-O	-1157 / 0	-91.8	-91.8	0.77 (1)	4.44	E-F	0 / 1631	0.40 (1)
O-P	-1157 / 0	-91.8	-91.8	0.77 (1)	4.44	F-K	0 / 1363	0.34 (1)
P-E	-1157 / 0	-91.8	-91.8	0.77 (1)	4.44			
E-Q	-1157 / 0	-91.8	-91.8	0.78 (1)	4.44			
Q-R	-1157 / 0	-91.8	-91.8	0.78 (1)	4.44			
R-F	-1157 / 0	-91.8	-91.8	0.78 (1)	4.44			
G-F	-1505 / 0	0.0	0.0	0.86 (1)	6.65			
L-B	-1503 / 0	0.0	0.0	0.11 (1)	7.81			

L-S	0 / 0	-18.5	-18.5	0.05 (4)	10.00
S-K	0 / 0	-18.5	-18.5	0.05 (4)	10.00
K-T	0 / 1307	-18.5	-18.5	0.20 (1)	10.00
T-U	0 / 1307	-18.5	-18.5	0.20 (1)	10.00
U-J	0 / 1307	-18.5	-18.5	0.20 (1)	10.00
J-V	0 / 1269	-18.5	-18.5	0.21 (1)	10.00
V-W	0 / 1269	-18.5	-18.5	0.21 (1)	10.00
W-I	0 / 1269	-18.5	-18.5	0.21 (1)	10.00
I-X	0 / 1269	-18.5	-18.5	0.21 (1)	10.00
X-H	0 / 1269	-18.5	-18.5	0.21 (1)	10.00
H-Y	0 / 0	-18.5	-18.5	0.09 (4)	10.00
Y-Z	0 / 0	-18.5	-18.5	0.09 (4)	10.00
Z-G	0 / 0	-18.5	-18.5	0.09 (4)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-6-4	-38	-38		FRONT	VERT	DEAD		C1
D	6-6-4	-148	-148		FRONT	VERT	SNOW		C1
F	17-3-0	-85	-85		FRONT	VERT	TOTAL		C1
M	5-11-4	-72	-72		FRONT	VERT	TOTAL		C1
N	7-0-12	-74	-74		FRONT	VERT	TOTAL		C1
O	9-0-12	-59	-59		FRONT	VERT	TOTAL		C1
P	11-0-12	-59	-59		FRONT	VERT	TOTAL		C1
Q	13-0-12	-59	-59		FRONT	VERT	TOTAL		C1
R	15-0-12	-59	-59		FRONT	VERT	TOTAL		C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***
ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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 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 (0.58")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.58")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.86/1.00 (F-G:1), BC=0.21/1.00 (H-J:1), WB=0.43/1.00 (E-H:1), SSI=0.39/1.00 (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

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= 0.49 (H) (INPUT = 0.90)
JSI METAL= 0.27 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115671

CONTINUED ON PAGE 2

JOB NAME 411169	TRUSS NAME T51	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:55:14 2021 Page 2
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SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
S	1-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
T	3-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
U	5-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
V	7-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
W	9-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
X	11-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
Y	13-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
Z	15-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

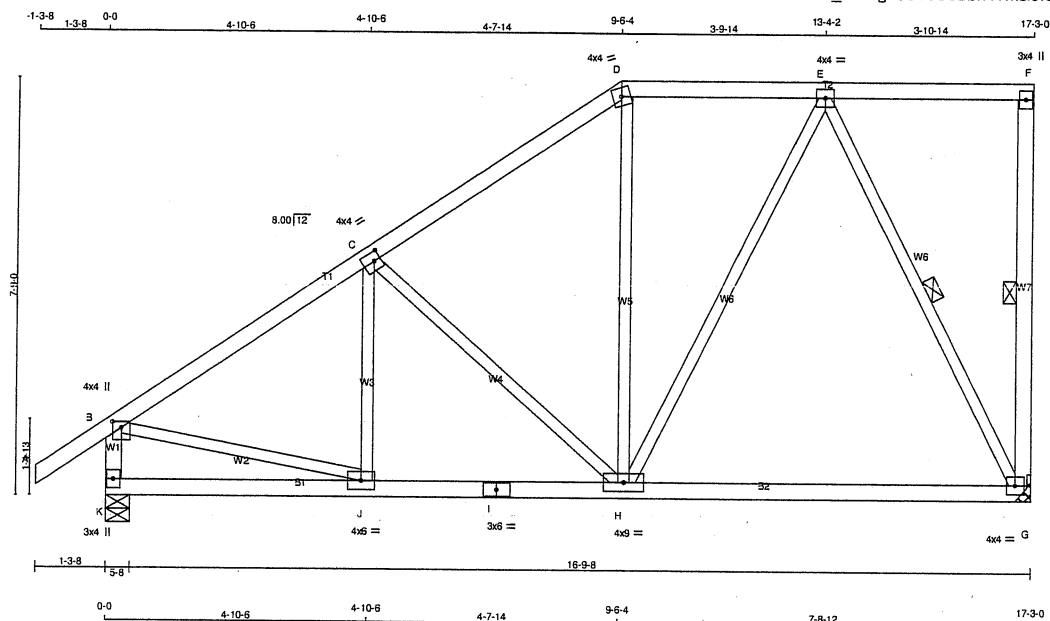
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2115671

JOB NAME 411169	TRUSS NAME T52	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:55:15 2021 Page 1
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TOTAL WEIGHT = 84 lb
[M/F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
C	TMVW-t	MT20	4.0	4.0	2.00 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMVW-t	MT20	4.0	4.0	
F	TMV+p	MT20	3.0	4.0	
G	BMVW1-t	MT20	4.0	4.0	
H	BMVWW-t	MT20	4.0	4.0	
I	BS-t	MT20	3.0	6.0	
J	BMVW-t	MT20	4.0	6.0	
K	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		REQRD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
G	951	0	951	0	0	5-8	MECHANICAL	5-8	
K	1077	0	1077	0	0	5-8	MECHANICAL	5-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	672	441 / 0	0 / 0	0 / 0	0 / 0	231 / 0	0 / 0
K	759	512 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.98 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-G, E-G.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	J-C	-107 / 28	0.03 (1)	
B-C	-970 / 0	-91.8 -91.8	0.28 (1)	C-H	-375 / 0	0.28 (1)	
C-D	-696 / 0	-91.8 -91.8	0.27 (1)	H-D	0 / 78	0.03 (4)	
D-E	-554 / 0	-91.8 -91.8	0.18 (1)	B-J	0 / 851	0.19 (1)	
E-F	0 / 0	-91.8 -91.8	0.23 (1)	H-E	0 / 355	0.08 (1)	
G-F	-137 / 0	0.0 0.0	0.04 (1)	E-G	-853 / 0	0.40 (1)	
K-B	-1036 / 0	0.0 0.0	0.11 (1)				
K-J	0 / 0	-18.5 -18.5	0.10 (4)				
J-I	0 / 831	-18.5 -18.5	0.29 (4)				
I-H	0 / 831	-18.5 -18.5	0.29 (4)				
H-G	0 / 396	-18.5 -18.5	0.26 (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 6.00/12

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 (0.58")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.58")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.28/1.00 (B-C:1), BC=0.29/1.00 (H-J:4), WB=0.40/1.00 (E-G:1), SSI=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

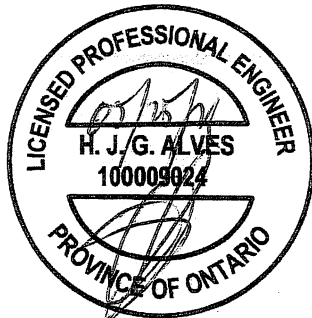
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (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 (B) (INPUT = 0.90)
JSI METAL= 0.26 (B) (INPUT = 1.00)

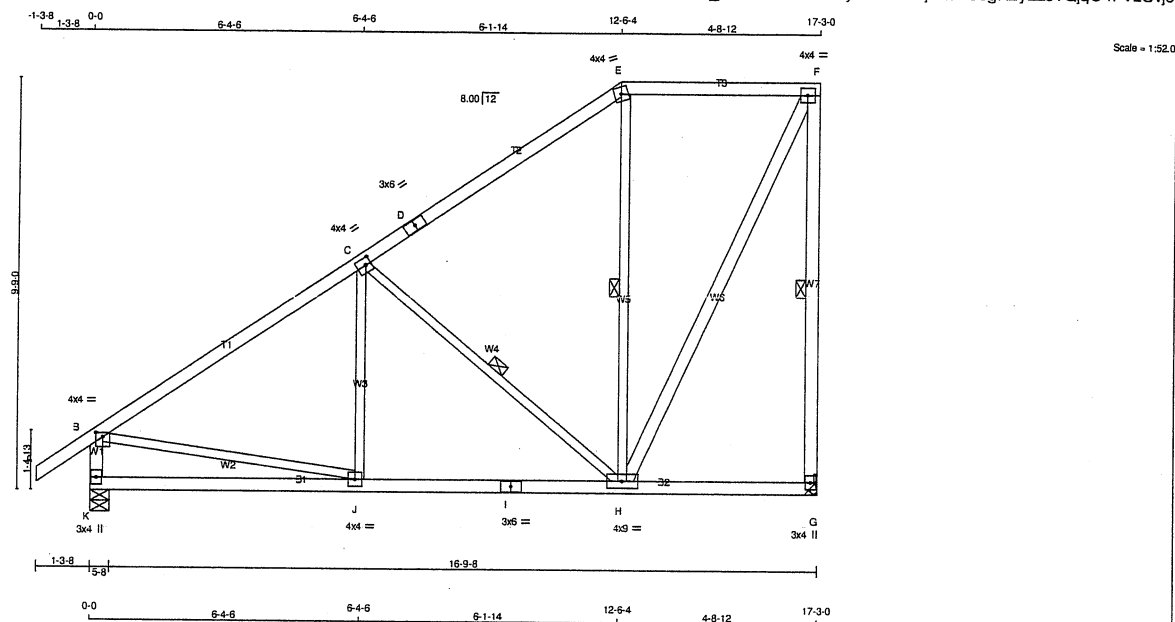


Structural component only
DWG# T-2115672

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411169	T53	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 3 X 90 = 271 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
G - B	2x4	DRY	No.2
K - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
I - G	2x4	DRY	No.2
ALL WEBS EXCEPT H - F	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	1.25	2.00
C	TMWW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW-t	MT20	4.0	4.0		
G	BMV1+p	MT20	3.0	4.0		
H	BMWW-t	MT20	4.0	9.0		
I	BS-t	MT20	3.0	6.0		
J	BMWW-t	MT20	4.0	4.0		
K	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	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
G	951	0	951	0	0	MECHANICAL
K	1077	0	1077	0	0	5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
G	672	441 / 0	0 / 0	0 / 0	0 / 0	231 / 0	0 / 0
K	759	512 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.68 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	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	J-C	-6 / 103	0.04 (4)
B-C	-940 / 0	-91.8	-91.8	0.50 (1)	5.68	C-H	-615 / 0	0.28 (1)
C-D	-455 / 0	-91.8	-91.8	0.47 (1)	6.25	H-E	-197 / 2	0.13 (1)
D-E	-455 / 0	-91.8	-91.8	0.47 (1)	6.25	H-F	0 / 782	0.13 (1)
E-F	-343 / 0	-91.8	-91.8	0.26 (1)	6.25	B-J	0 / 826	0.19 (1)
G-F	-918 / 0	0.0	0.0	0.42 (1)	6.25			
K-B	-1029 / 0	0.0	0.0	0.11 (1)	7.74			
K-J	0 / 0	-18.5	-18.5	0.18 (4)	10.00			
J-I	0 / 814	-18.5	-18.5	0.25 (4)	10.00			
I-H	0 / 814	-18.5	-18.5	0.25 (4)	10.00			
H-G	0 / 0	-18.5	-18.5	0.12 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.58")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.58")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.50/1.00 (B-C:1), BC=0.25/1.00 (H-J:4), WB=0.28/1.00 (C-H:1), SSI=0.23/1.00 (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= 0.86 (J) (INPUT = 0.90)
JSI METAL= 0.31 (I) (INPUT = 1.00)



Structural component only
DWG# T-2115673

TOTAL WEIGHT = 2 X 88 = 176 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	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	39.0	PSF	

SPACING = 24.0 IN./C

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

GIRDER TYPE: CStdGirder

START DISTANCE = 0-0

START SPAN CARRIED = 5-5-8

END DISTANCE = 13-6-0

END SPAN CARRIED = 5-5-8

END WALL WIDTH = 1-8

APPLIED TO FRONT SIDE OF BOTTOM CHORD.

- ADDTL LOADS BASED ON 55 % OF GSL.

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.45")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")

ALLOWABLE DEFL.(TL)= L/360 (0.45")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13")

CSI: TC=0.75/1.00 (D-E:1), BC=0.72/1.00 (F-G:1), WB=0.53/1.00 (B-F:1), SS=0.50/1.00 (E-F: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)	(PLI)	(PSI)	(PLI)	(PSI)	(PLI)
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

JOB NAME 411169	TRUSS NAME T54	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:55:17 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-dYOpS1Q7/C55i305HITKYQKnERA9niSZxU7dnxzCvj8

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	5.0	8.0	2.25	3.00
B	TMWW-t	MT20	4.0	6.0	2.00	2.75
C	TTW-m	MT20	4.0	4.0	Edge	
D	TMVW-t	MT20	5.0	6.0	2.50	2.00
E	BMV1+p	MT20	3.0	6.0		
F	BMWWW-t	MT20	8.0	9.0	4.25	4.50
G	BMWW-t	MT20	6.0	9.0	4.50	2.75
H	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

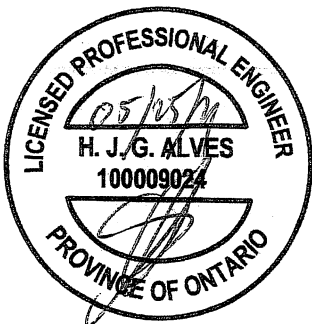
1) Lateral braces to be a minimum of 2x4 SPF #2

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

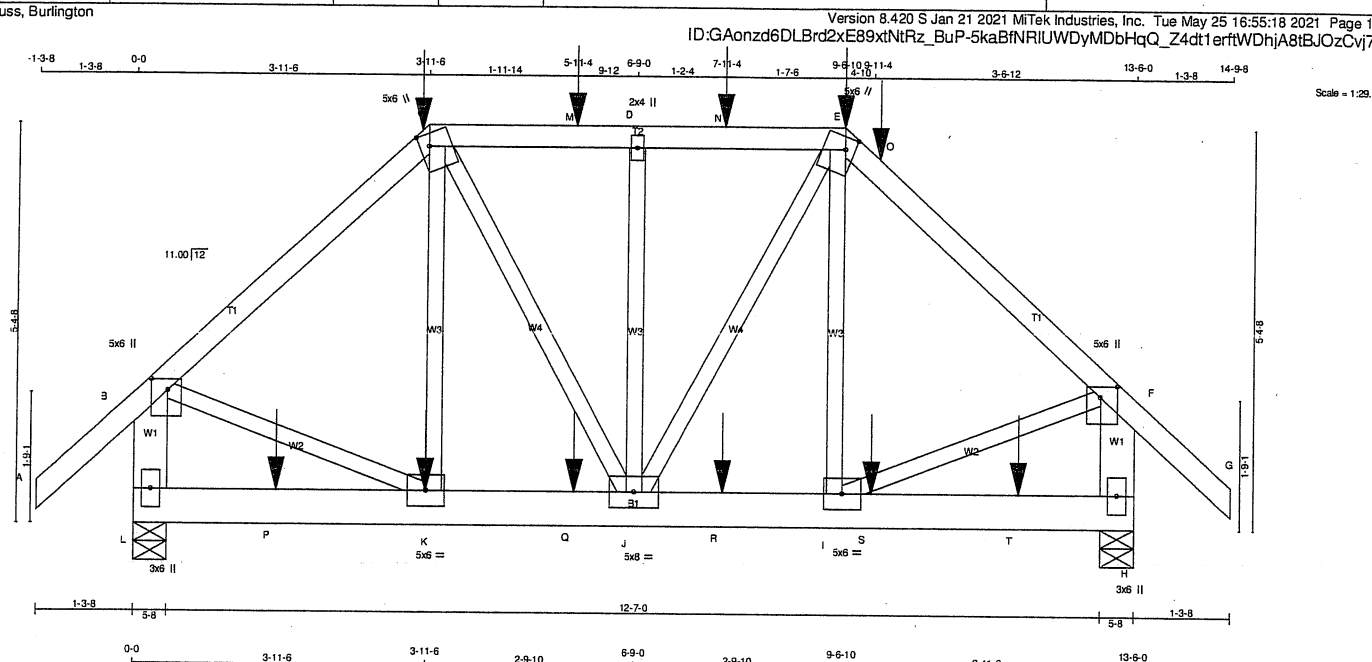
JSI GRIP= 0.72 (D) (INPUT = 0.90)

JSI METAL= 0.38 (G) (INPUT = 1.00)



Structural component only
DWG# T-2115674 *in*

JOB NAME 411169	TRUSS NAME T55	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
L - B	2x6	DRY	No.2
H - F	2x6	DRY	No.2
L - H	2x6	DRY	No.2

ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	6.0	1.75	2.75
C TTWW+m	MT20	5.0	6.0	2.00	1.50
D TMW+w	MT20	2.0	4.0		
E TTWW+m	MT20	5.0	6.0	2.00	1.50
F TMVW+p	MT20	5.0	6.0	1.75	2.75
H BMV1+p	MT20	3.0	6.0		
I BMWW-t	MT20	5.0	6.0		
J BMWWW-t	MT20	5.0	8.0		
K BMWW-t	MT20	5.0	6.0		
L BMV1+p	MT20	3.0	6.0		

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	GROSS REACTION	BRG	BRG
L	1652	0	1652	0	5-8
H	1689	0	1689	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1164	789 / 0	0 / 0	0 / 0	0 / 0	375 / 0	0 / 0
H	1190	807 / 0	0 / 0	0 / 0	0 / 0	382 / 0	0 / 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 = 5.05 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	MAX.	WEBS	MAX. FACTORED	MAX.
MEMB.	FORCE (LBS)	VERT. (PLF)	LC1 (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX. (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 43	-91.8	-91.8	0.14 (1)	10.00	K-C	-170 / 59
B-C	-1409 / 0	-91.8	-91.8	0.32 (1)	5.09	C-J	0 / 359
C-M	-1207 / 0	-91.8	-91.8	0.26 (1)	5.47	J-D	-582 / 0
M-D	-1207 / 0	-91.8	-91.8	0.26 (1)	5.47	J-E	0 / 341
D-N	-1207 / 0	-91.8	-91.8	0.26 (1)	5.46	I-E	-171 / 62
N-E	-1207 / 0	-91.8	-91.8	0.26 (1)	5.46	B-K	0 / 1089
E-O	-1364 / 0	-91.8	-91.8	0.39 (1)	5.05	I-F	0 / 1099
O-F	-1364 / 0	-91.8	-91.8	0.39 (1)	5.05		
F-G	0 / 43	-91.8	-91.8	0.14 (1)	10.00		
L-B	-1604 / 0	0.0	0.0	0.12 (1)	7.73		
H-F	-1635 / 0	0.0	0.0	0.12 (1)	7.68		
L-P	0 / 0	-18.5	-18.5	0.07 (4)	10.00		
P-K	0 / 0	-18.5	-18.5	0.07 (4)	10.00		
K-Q	0 / 1032	-18.5	-18.5	0.18 (1)	10.00		
Q-J	0 / 1032	-18.5	-18.5	0.18 (1)	10.00		
J-R	0 / 1040	-18.5	-18.5	0.18 (1)	10.00		
R-I	0 / 1040	-18.5	-18.5	0.18 (1)	10.00		
I-S	0 / 0	-18.5	-18.5	0.08 (4)	10.00		
S-T	0 / 0	-18.5	-18.5	0.08 (4)	10.00		
T-H	0 / 0	-18.5	-18.5	0.08 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-11-6	-41	-41		FRONT	VERT	DEAD		C1
C	3-11-6	-131	-131		FRONT	VERT	TOTAL		C1
C	3-11-6	-171	-171		FRONT	VERT	SNOW		C1
E	9-6-10	-41	-41		FRONT	VERT	DEAD		C1
E	9-6-10	-171	-171		FRONT	VERT	SNOW		C1
K	3-11-4	-29	-29		FRONT	VERT	TOTAL		C1
M	5-11-4	-125	-125		FRONT	VERT	TOTAL		C1
N	7-11-4	-125	-125		FRONT	VERT	TOTAL		C1
O	9-11-4	-144	-144		FRONT	VERT	TOTAL		C1
P	1-11-4	-29	-29		FRONT	VERT	TOTAL		C1
Q	5-11-4	-29	-29		FRONT	VERT	TOTAL		C1
R	7-11-4	-29	-29		FRONT	VERT	TOTAL		C1
S	9-11-4	-29	-29		FRONT	VERT	TOTAL		C1
T	11-11-4	-29	-29		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 78 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 = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C

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

*** 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 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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.39/1.00 (E-F:1), BC=0.18/1.00 (J-K:1), WB=0.27/1.00 (F-I:1), SSI=0.27/1.00 (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

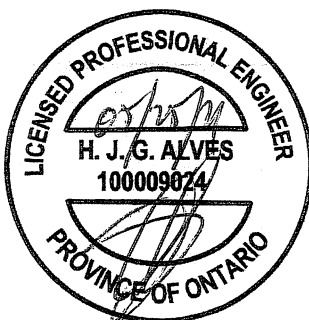
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (F) (INPUT = 0.90)
JSI METAL= 0.48 (F) (INPUT = 1.00)

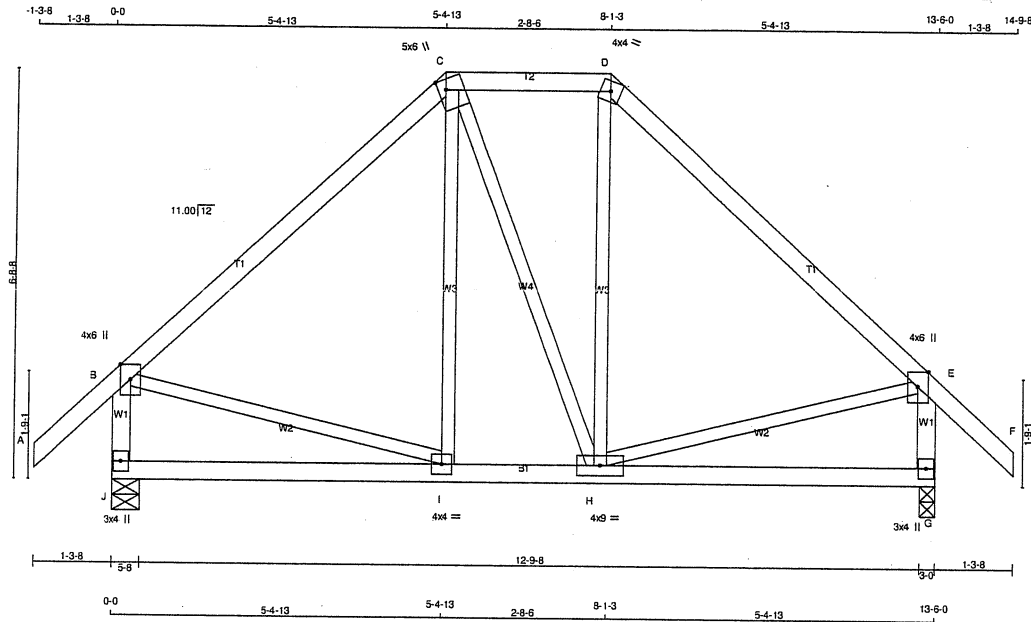


Structural component only
DWG# T-2115675

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411169	T56	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale = 1/32

TOTAL WEIGHT = 2 X 67 = 133 lb

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

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
C	TTWW+m	MT20	5.0	6.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMVW+p	MT20	4.0	6.0	Edge	
G	BMV1+p	MT20	3.0	4.0		
H	BMVWW-t	MT20	4.0	9.0		
I	BMVWW-t	MT20	4.0	4.0		
J	BMV1+p	MT20	3.0	4.0		

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

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	REQRD BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	872	0	5-8	5-8
G	872	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	614	417 / 0	0 / 0	0 / 0	0 / 0	0 / 0	198 / 0	0 / 0
G	614	417 / 0	0 / 0	0 / 0	0 / 0	0 / 0	198 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 / 43	-91.8	-91.8	0.13 (1)	10.00	I-C	-18 / 55	0.02 (4)	
B-C	-523 / 0	-91.8	-91.8	0.35 (1)	6.25	C-H	0 / 2	0.00 (4)	
C-D	-385 / 0	-91.8	-91.8	0.09 (1)	6.25	H-D	-17 / 57	0.02 (4)	
D-E	-524 / 0	-91.8	-91.8	0.35 (1)	6.25	B-I	0 / 397	0.09 (1)	
E-F	0 / 43	-91.8	-91.8	0.13 (1)	10.00	H-E	0 / 397	0.09 (1)	
J-B	-828 / 0	0.0	0.0	0.09 (1)	7.81				
G-E	-828 / 0	0.0	0.0	0.09 (1)	7.81				
J-I	0 / 0	-18.5	-18.5	0.12 (4)	10.00				
I-H	0 / 384	-18.5	-18.5	0.14 (4)	10.00				
H-G	0 / 0	-18.5	-18.5	0.12 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.35/1.00 (D-E:1), BC=0.14/1.00 (H-I:4), WB=0.09/1.00 (E-H:1), SSI=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.57 (B) (INPUT = 0.90)
JSI METAL= 0.31 (E) (INPUT = 1.00)

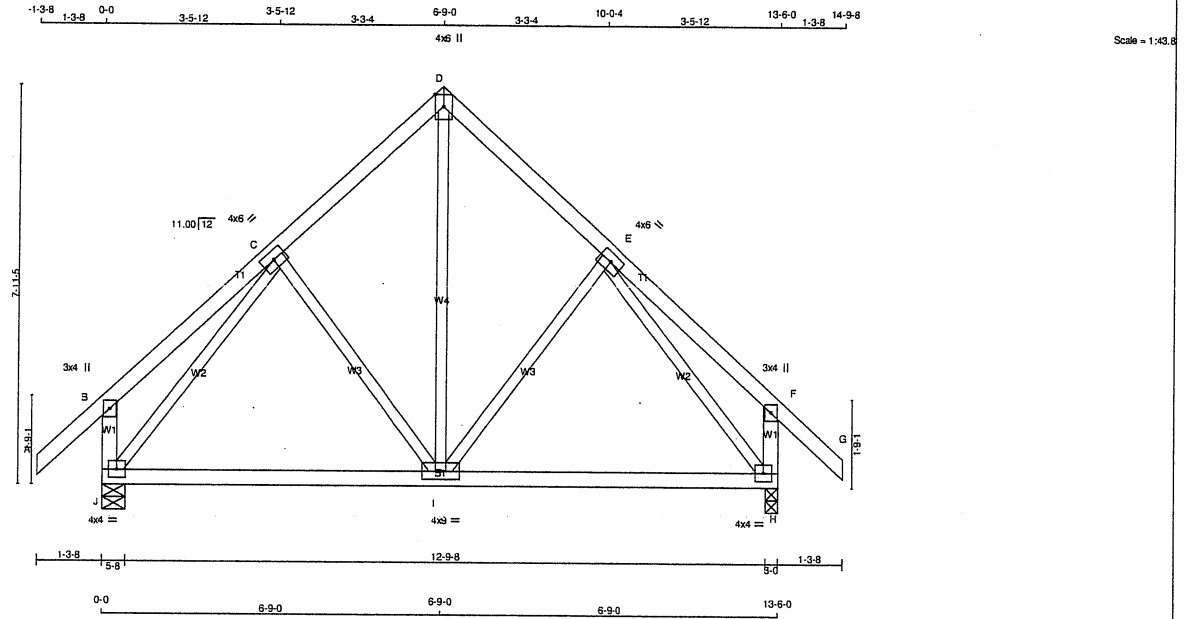


Structural component only
DWG# T-2115676

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411169	T57	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 67 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMW+t	MT20	4.0	6.0		
D	TTW+p	MT20	4.0	6.0	Edge	
E	TMW+t	MT20	4.0	6.0		
F	TMV+p	MT20	3.0	4.0		
H	BMW+t	MT20	4.0	4.0		
I	BMW+t	MT20	4.0	9.0		
J	BMW+t	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	REQRD
JT	VERT	HORZ	DOWN	HORZ
J	872	0	872	0
H	872	0	872	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	614	417 / 0	0 / 0	0 / 0	0 / 0	198 / 0	0 / 0
H	614	417 / 0	0 / 0	0 / 0	0 / 0	198 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX
MEMB.	FORCE (LBS)	PLF	CS	(LC)	UNBRAC	LENGTH	FR-TO	FORCE (LBS)	PLF	CS	(LC)	MAX
FR-TO												
A-B	0 / 43	-91.8	-91.8	0.13 (1)	10.00	I-D	0 / 387	0.09 (1)				
B-C	0 / 24	-91.8	-91.8	0.17 (1)	10.00	I-E	-146 / 0	0.08 (1)				
C-D	-490 / 0	-91.8	-91.8	0.13 (1)	6.25	C-I	-146 / 0	0.08 (1)				
D-E	-490 / 0	-91.8	-91.8	0.13 (1)	6.25	J-C	-723 / 0	0.37 (1)				
E-F	0 / 24	-91.8	-91.8	0.17 (1)	10.00	E-H	-723 / 0	0.37 (1)				
F-G	0 / 43	-91.8	-91.8	0.13 (1)	10.00							
J-B	-245 / 0	0.0	0.0	0.03 (1)	7.81							
H-F	-245 / 0	0.0	0.0	0.03 (1)	7.81							
J-I	0 / 432	-18.5	-18.5	0.27 (4)	10.00							
I-H	0 / 432	-18.5	-18.5	0.27 (4)	10.00							

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.17/1.00 (E-F:1), BC=0.27/1.00 (H-I:4),
WB=0.37/1.00 (E-H:1), SSI=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

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

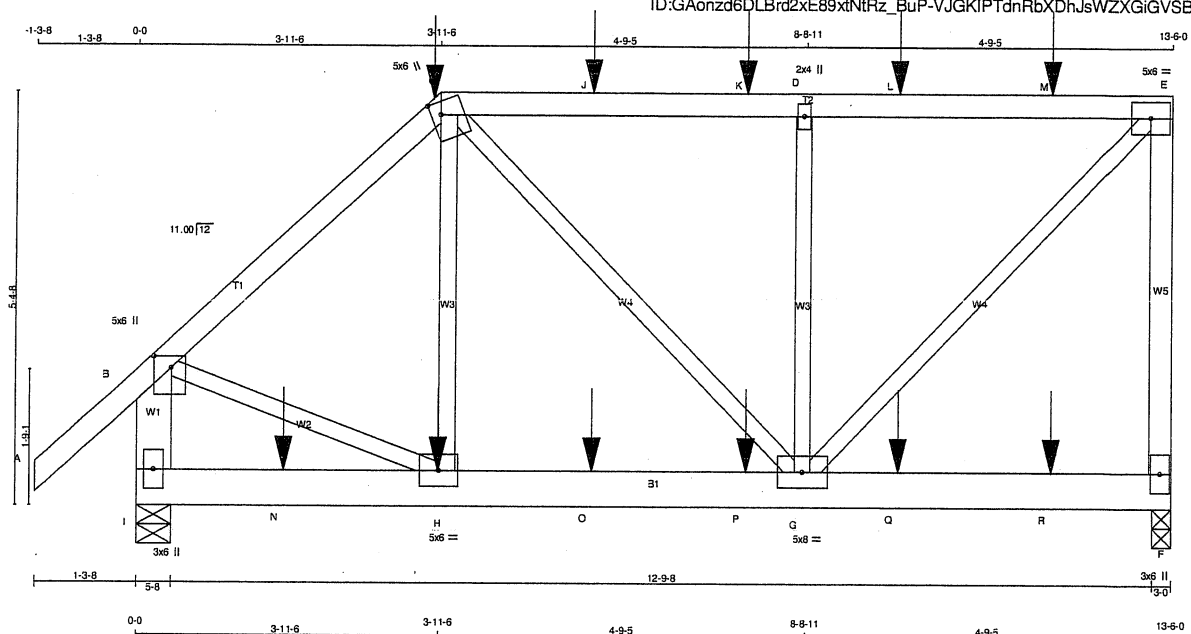
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.54 (H) (INPUT = 0.90)
JSI METAL= 0.16 (E) (INPUT = 1.00)



Structural component only
DWG# T-2115677



TOTAL WEIGHT = 72 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
I - B	2x6	DRY	No.2	SPF
I - F	2x6	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	X
B	TMVW+p	MT20	5.0	6.0	1.75 2.75
C	TTWW+m	MT20	5.0	6.0	2.00 1.50
D	TMVW-w	MT20	2.0	4.0	
E	TMVW-t	MT20	5.0	6.0	
F	BMV1+p	MT20	3.0	6.0	
G	BMVWW-t	MT20	5.0	8.0	
H	BMVWW-t	MT20	5.0	6.0	
I	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		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
F	1403	0	1403	0	0	3-0	3-0	3-0	3-0
I	1517	0	1517	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	991	656 / 0	0 / 0	0 / 0	0 / 0	335 / 0	0 / 0
I	1069	721 / 0	0 / 0	0 / 0	0 / 0	348 / 0	0 / 0

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

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 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 / 43	-91.8 -91.8 0.14 (1)	10.00	H-C	-138 / 78	0.06 (1)	
B-C	-1267 / 0	-91.8 -91.8 0.32 (1)	5.32	C-G	0 / 136	0.03 (1)	
C-J	-1021 / 0	-91.8 -91.8 0.75 (1)	4.70	G-D	-999 / 0	0.42 (1)	
J-K	-1021 / 0	-91.8 -91.8 0.75 (1)	4.70	G-E	0 / 1472	0.36 (1)	
K-D	-1021 / 0	-91.8 -91.8 0.75 (1)	4.70	B-H	0 / 979	0.24 (1)	
D-L	-1022 / 0	-91.8 -91.8 0.75 (1)	4.69				
L-M	-1022 / 0	-91.8 -91.8 0.75 (1)	4.69				
M-E	-1022 / 0	-91.8 -91.8 0.75 (1)	4.69				
F-E	-1332 / 0	0.0 0.0 0.63 (1)	6.98				
I-B	-1473 / 0	0.0 0.0 0.11 (1)	7.81				
I-N	0 / 0	-18.5 -18.5 0.06 (4)	10.00				
N-H	0 / 0	-18.5 -18.5 0.06 (4)	10.00				
H-O	0 / 928	-18.5 -18.5 0.17 (1)	10.00				
O-P	0 / 928	-18.5 -18.5 0.17 (1)	10.00				
P-Q	0 / 928	-18.5 -18.5 0.17 (1)	10.00				
Q-R	0 / 0	-18.5 -18.5 0.09 (4)	10.00				
R-F	0 / 0	-18.5 -18.5 0.09 (4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-11-6	-41	-41		FRONT	VERT	DEAD		C1
C	3-11-6	-115	-115		BACK	VERT	TOTAL		C1
C	3-11-6	-173	-173		FRONT	VERT	SNOW		C1
H	3-11-4	-26	-26		BACK	VERT	TOTAL		C1
J	5-11-4	-109	-109		BACK	VERT	TOTAL		C1
K	7-11-4	-109	-109		BACK	VERT	TOTAL		C1
L	9-11-4	-109	-109		BACK	VERT	TOTAL		C1
M	11-11-4	-109	-109		BACK	VERT	TOTAL		C1
N	1-11-4	-26	-26		BACK	VERT	TOTAL		C1
O	5-11-4	-26	-26		BACK	VERT	TOTAL		C1
P	7-11-4	-26	-26		BACK	VERT	TOTAL		C1
Q	9-11-4	-26	-26		BACK	VERT	TOTAL		C1
R	11-11-4	-26	-26		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/C

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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.75/1.00 (D-E:1), BC=0.17/1.00 (G-H:1), WB=0.42/1.00 (D-G:1), SS=0.44/1.00 (G-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 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= 0.76 (G) (INPUT = 0.90)
JSI METAL= 0.43 (B) (INPUT = 1.00)

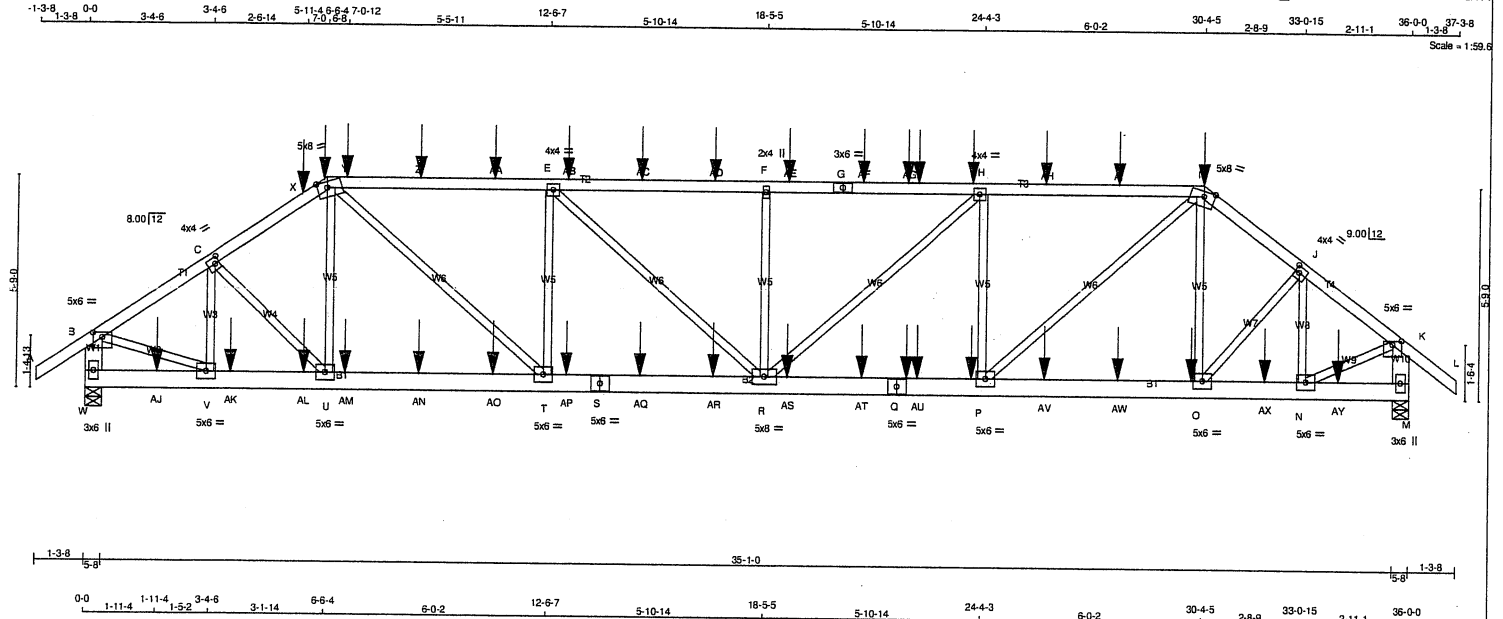


Structural component only
DWG# T-2115678

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411171	T70	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP_-3nDCLKna09wy8I_6QeFLO_DXRtZnTnEAQF65zCuww



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
W - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
W - S	2x6	DRY	No.2
S - Q	2x6	DRY	No.2
Q - M	2x6	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-D	12	SIDE(61.0)
D-G	12	SIDE(61.0)
G-I	12	SIDE(61.0)
I-L	12	SIDE(61.0)
W-B	2	TOP
M-K	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W-S	2	SIDE(0.0)
S-Q	2	SIDE(0.0)
Q-M	2	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT	3237	0	3237	0	0	5-8	5-8	
W	3240	0	3240	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	2284	1528 / 0	0 / 0	0 / 0	0 / 0	756 / 0	0 / 0
M	2287	1527 / 0	0 / 0	0 / 0	0 / 0	760 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.56 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 (IN)	CS1 (LC)	MEMB. MAX. FACTORED FORCE (LBS)	CS1 (LC)
FR-TO						
A-B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	V-C
B-C	-3625 / 0	-91.8	-91.8	0.13 (1)	4.84	C-U
C-X	-4014 / 0	-91.8	-91.8	0.14 (1)	4.63	U-D
X-D	-4014 / 0	-91.8	-91.8	0.14 (1)	4.63	O-I
D-Y	-4973 / 0	-91.8	-91.8	0.58 (1)	3.79	O-J
Y-Z	-4973 / 0	-91.8	-91.8	0.58 (1)	3.79	N-J
Z-AA	-4973 / 0	-91.8	-91.8	0.58 (1)	3.79	B-V
AA-E	-4973 / 0	-91.8	-91.8	0.58 (1)	3.79	N-K
E-AB	-5429 / 0	-91.8	-91.8	0.61 (1)	3.62	P-I
AB-AC	-5429 / 0	-91.8	-91.8	0.61 (1)	3.62	D-T
AC-AD	-5429 / 0	-91.8	-91.8	0.61 (1)	3.62	P-H
AD-F	-5429 / 0	-91.8	-91.8	0.61 (1)	3.62	T-E
F-AE	-5429 / 0	-91.8	-91.8	0.65 (1)	3.56	R-H
AE-G	-5429 / 0	-91.8	-91.8	0.65 (1)	3.56	E-R
G-AF	-5429 / 0	-91.8	-91.8	0.65 (1)	3.56	R-F
AF-AG	-5429 / 0	-91.8	-91.8	0.65 (1)	3.56	
AG-H	-5429 / 0	-91.8	-91.8	0.65 (1)	3.56	
H-AH	-4849 / 0	-91.8	-91.8	0.61 (1)	3.78	
AH-AI	-4849 / 0	-91.8	-91.8	0.61 (1)	3.78	
AI-I	-4849 / 0	-91.8	-91.8	0.61 (1)	3.78	
I-J	-3722 / 0	-91.8	-91.8	0.10 (1)	4.82	
J-K	-3240 / 0	-91.8	-91.8	0.09 (1)	5.10	
K-L	0 / 38	-91.8	-91.8	0.07 (1)	10.00	
W-B	-3167 / 0	0.0	0.0	0.11 (1)	7.77	
M-K	-3178 / 0	0.0	0.0	0.12 (1)	7.75	
W-AJ	0 / 0	-18.5	-18.5	0.04 (1)	10.00	
AJ-V	0 / 0	-18.5	-18.5	0.04 (1)	10.00	
V-AK	0 / 3031	-18.5	-18.5	0.24 (1)	10.00	
AK-AL	0 / 3031	-18.5	-18.5	0.24 (1)	10.00	
AL-U	0 / 3031	-18.5	-18.5	0.24 (1)	10.00	
U-AM	0 / 3331	-18.5	-18.5	0.25 (1)	10.00	
AM-AN	0 / 3331	-18.5	-18.5	0.25 (1)	10.00	
AN-AO	0 / 3331	-18.5	-18.5	0.25 (1)	10.00	
AO-T	0 / 3331	-18.5	-18.5	0.25 (1)	10.00	
T-AP	0 / 4974	-18.5	-18.5	0.37 (1)	10.00	
AP-S	0 / 4974	-18.5	-18.5	0.37 (1)	10.00	
S-AQ	0 / 4974	-18.5	-18.5	0.37 (1)	10.00	
AQ-AR	0 / 4974	-18.5	-18.5	0.37 (1)	10.00	
AR-R	0 / 4974	-18.5	-18.5	0.37 (1)	10.00	
R-AS	0 / 4849	-18.5	-18.5	0.37 (1)	10.00	
AS-AT	0 / 4849	-18.5	-18.5	0.37 (1)	10.00	
AT-Q	0 / 4849	-18.5	-18.5	0.37 (1)	10.00	

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (1.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.25")

CSI: TC=0.65/1.00 (F-H:1), BC=0.37/1.00 (R-T:1),
WB=0.39/1.00 (B-V:1), SSI=0.20/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
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 = 0.88 (I) (INPUT = 0.90)
JSI METAL = 0.47 (Q) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115710

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411171	T70	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP- 3nDCLKna09wy8l 6QeFLO DXRXiZnTnEAQF65zCuwn

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMWW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	8.0	2.00	3.25
E	TMWW-t	MT20	4.0	4.0		
F	TMW-w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	4.0	4.0		
I	TTWW-m	MT20	5.0	8.0	Edge	3.50
J	TMWW-t	MT20	4.0	4.0	2.00	1.50
K	TMVW-p	MT20	5.0	6.0	1.25	3.00
M	BMV1-p	MT20	3.0	6.0		
N, O, P, T, U, V						
N	BMWW-t	MT20	5.0	6.0		
Q	BS-t	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	8.0		
S	BS-t	MT20	5.0	6.0		
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: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. FACTORED (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	UNBRACED LENGTH (LC)	MAX. FACTORED (LC)
FR-TO		FROM	TO	FR-TO			
Q-AU	0 / 4849	-18.5	-18.5 0.37 (1)	10.00			
AU-P	0 / 4849	-18.5	-18.5 0.37 (1)	10.00			
P-AV	0 / 2952	-18.5	-18.5 0.23 (1)	10.00			
AV-AW	0 / 2952	-18.5	-18.5 0.23 (1)	10.00			
AW-O	0 / 2952	-18.5	-18.5 0.23 (1)	10.00			
O-AX	0 / 2603	-18.5	-18.5 0.20 (1)	10.00			
AX-N	0 / 2603	-18.5	-18.5 0.20 (1)	10.00			
N-AY	0 / 0	-18.5	-18.5 0.03 (1)	10.00			
AY-M	0 / 0	-18.5	-18.5 0.03 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	6-6-4	-38	-38	---	FRONT	VERT	DEAD	---	C1
D	6-6-4	-165	-165	---	FRONT	VERT	SNOW	---	C1
H	24-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
I	30-4-5	-38	-38	---	FRONT	VERT	DEAD	---	C1
I	30-4-5	-63	-63	---	FRONT	VERT	TOTAL	---	C1
I	30-4-5	-165	-165	---	FRONT	VERT	SNOW	---	C1
O	30-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
P	24-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
Q	22-3-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
X	5-11-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
Y	7-0-12	-74	-74	---	FRONT	VERT	TOTAL	---	C1
Z	9-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AA	11-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AB	13-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AC	15-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AD	17-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AE	19-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AF	21-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AG	22-3-4	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AG	22-6-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AH	26-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AI	28-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AJ	1-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AK	3-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AL	5-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AM	7-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AN	9-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AO	11-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AP	13-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AQ	15-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AR	17-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AS	19-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AT	21-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AU	22-6-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AV	26-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AW	28-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AX	32-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AY	34-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

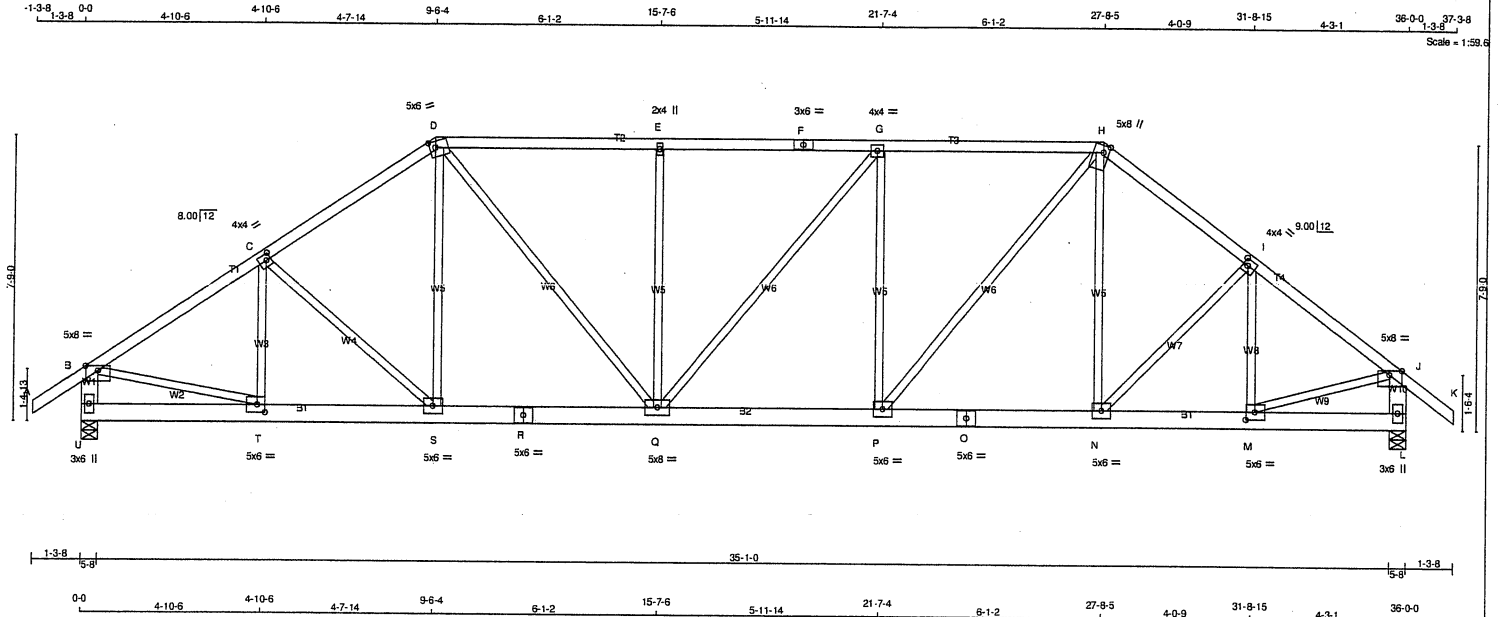


Structural component only
DWG# T-2115710 *en*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411171	T71	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:48:53 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-SFLbQhLPLKHnZtBg89UucXPQtpIAzXsqAoeXzCuWu



TOTAL WEIGHT = 185 lb
[M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
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	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	8.0 Edge
C	TMWW-t	MT20	4.0	4.0 2.00 1.50
D	TTWW-m	MT20	5.0	6.0 2.00 2.00
E	TMW+w	MT20	2.0	4.0
F	TS-t	MT20	3.0	6.0
G	TMWW-t	MT20	4.0	4.0
H	TTWW+m	MT20	5.0	8.0 2.25 1.75
I	TMWW-t	MT20	4.0	4.0 2.00 1.50
J	TMVW-p	MT20	5.0	8.0 Edge
L	BMV1+p	MT20	3.0	6.0
M	BMWW-t	MT20	5.0	6.0 2.50 2.75
N, P, S				
N	BMWW-t	MT20	5.0	6.0
O	BS-t	MT20	5.0	6.0
Q	BMWWW-t	MT20	5.0	8.0
R	BS-t	MT20	5.0	6.0
T	BMWW-t	MT20	5.0	6.0 2.50 2.50
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
U	2110	0	2110	0	5-8
L	2111	0	2111	0	5-8

UNFACTORED REACTIONS

1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	1490	991 / 0	0 / 0	0 / 0	0 / 0	499 / 0	0 / 0
L	1491	992 / 0	0 / 0	0 / 0	0 / 0	499 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (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	T-C	-353 / 0	0.11 (1)	
B-C	-2397 / 0	-91.8 -91.8 0.48 (1)	3.98	C-S	-164 / 0	0.12 (1)	
C-D	-2309 / 0	-91.8 -91.8 0.47 (1)	4.05	S-D	0 / 240	0.05 (1)	
D-E	-2424 / 0	-91.8 -91.8 0.64 (1)	3.77	D-Q	0 / 825	0.19 (1)	
E-F	-2424 / 0	-91.8 -91.8 0.64 (1)	3.75	Q-E	-600 / 0	0.63 (1)	
F-G	-2424 / 0	-91.8 -91.8 0.64 (1)	3.75	Q-G	0 / 79	0.02 (1)	
G-H	-2374 / 0	-91.8 -91.8 0.64 (1)	3.79	P-G	-663 / 0	0.70 (1)	
H-I	-2194 / 0	-91.8 -91.8 0.35 (1)	4.27	P-H	0 / 1007	0.23 (1)	
I-J	-2181 / 0	-91.8 -91.8 0.35 (1)	4.28	N-H	0 / 156	0.04 (4)	
J-K	0 / 38	-91.8 -91.8 0.12 (1)	10.00	N-I	-51 / 0	0.03 (1)	
U-B	-2058 / 0	0.0 0.0 0.13 (1)	7.06	M-I	-413 / 0	0.13 (1)	
L-J	-2063 / 0	0.0 0.0 0.14 (1)	7.05	B-T	0 / 2059	0.46 (1)	
				M-J	0 / 1824	0.41 (1)	
U-T	0 / 0	-18.5 -18.5 0.05 (4)	10.00				
T-S	0 / 2018	-18.5 -18.5 0.28 (1)	10.00				
S-R	0 / 1898	-18.5 -18.5 0.27 (1)	10.00				
R-Q	0 / 1898	-18.5 -18.5 0.27 (1)	10.00				
Q-P	0 / 2374	-18.5 -18.5 0.32 (1)	10.00				
P-O	0 / 1732	-18.5 -18.5 0.24 (1)	10.00				
O-N	0 / 1732	-18.5 -18.5 0.24 (1)	10.00				
N-M	0 / 1765	-18.5 -18.5 0.25 (1)	10.00				
M-L	0 / 0	-18.5 -18.5 0.04 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.64/1.00 (E-G:1), BC=0.32/1.00 (P-Q:1),
WB=0.70/1.00 (G-P:1), SS=0.26/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 = 0.84 (H) (INPUT = 0.90)

JSI METAL = 0.46 (T) (INPUT = 1.00)

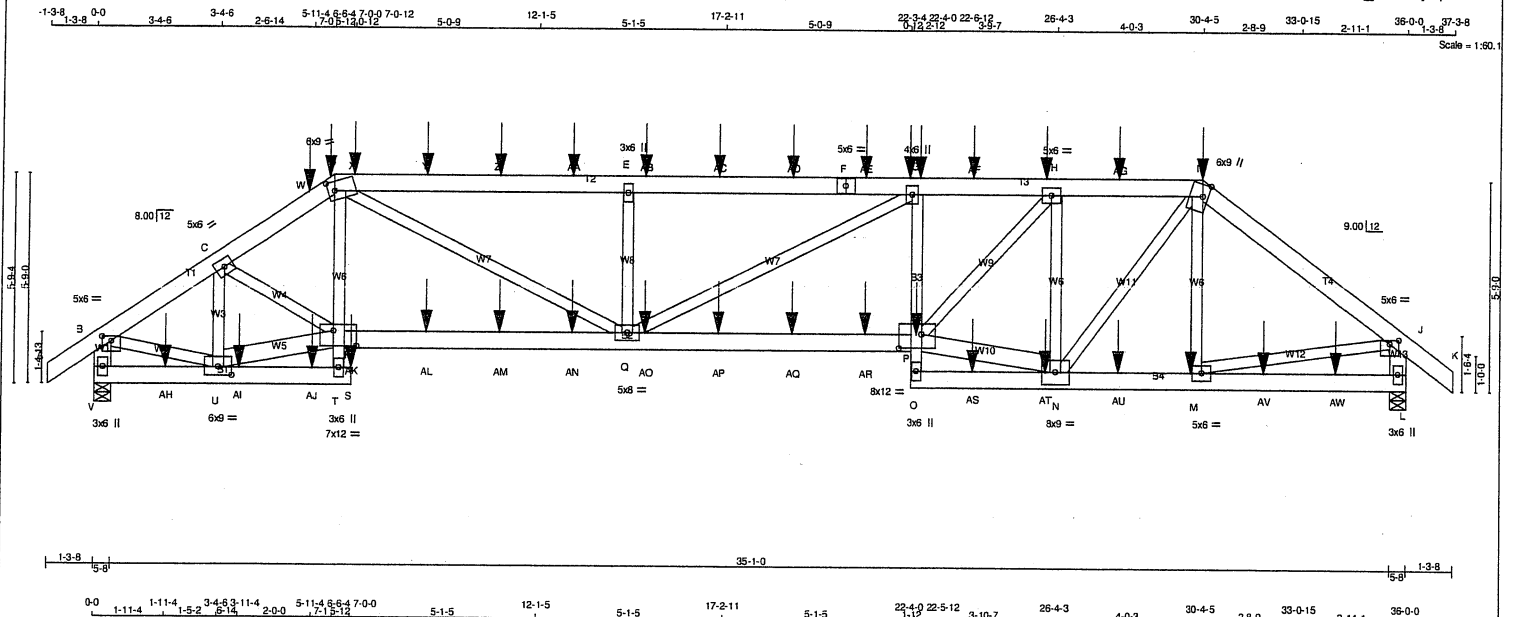


Structural component only
DWG# T-2115711

JOB NAME 411170	TRUSS NAME T70S	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:19 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP_-SXejzaG7GehlllSbO55wWD7o0MW_2YxsXjqzNzCv12



CHORDS	SIZE	LUMBER	DESCR.
A - D	2x6	DRY	No.2
D - F	2x6	DRY	No.2
F - I	2x6	DRY	No.2
I - K	2x6	DRY	No.2
V - B	2x6	DRY	No.2
L - J	2x6	DRY	No.2
V - S	2x6	DRY	No.2
R - P	2x6	DRY	No.2
O - G	2x4	DRY	No.2
O - L	2x6	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
P - N	2x6	DRY	No.2
U - R	2x6	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D	2	12
D-F	2	12
F-I	2	12
I-K	2	12
V-B	2	12
L-J	2	12
V-S	2	12
R-P	2	12
O-L	2	12
G-O	1	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V-S	2	12
R-P	2	12
O-L	2	12
G-O	1	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x4	1	6
2x6	2	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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		
V	3135	0	3135	0	5-8	5-8
L	3171	0	3171	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
V	2216	1463 / 0	0 / 0	0 / 0	0 / 0	753 / 0	0 / 0
L	2240	1482 / 0	0 / 0	0 / 0	0 / 0	759 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.45 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

MAX. UNBRACED INTERIOR CHORD LENGTH = 10.00 FT

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 36	-91.8	-91.8	0.04 (1)	10.00	U-C	-1658 / 0	0.12 (1)
B-C	-3616 / 0	-91.8	-91.8	0.06 (1)	5.86	D-Q	0 / 2665	0.24 (1)
C-W	-4812 / 0	-91.8	-91.8	0.08 (1)	5.23	Q-E	-849 / 0	0.09 (1)
W-D	-4812 / 0	-91.8	-91.8	0.08 (1)	5.23	Q-G	0 / 180	0.02 (1)
D-X	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	P-N	0 / 4274	0.28 (1)
X-Y	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	P-H	0 / 2941	0.26 (1)
Y-Z	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	N-H	-2672 / 0	0.43 (1)
Z-AA	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	N-I	0 / 2123	0.19 (1)
AA-E	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	M-I	-361 / 0	0.06 (1)
E-AB	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	M-J	0 / 2971	0.26 (1)
AB-AC	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	B-U	0 / 3119	0.28 (1)
AC-AD	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	T-R	0 / 145	0.05 (1)
AD-F	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	R-D	0 / 587	0.09 (1)
F-AE	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	U-R	0 / 3102	0.20 (1)
AE-G	-6388 / 0	-91.8	-91.8	0.32 (1)	4.45	C-R	0 / 1171	0.10 (1)
G-AF	-6207 / 0	-91.8	-91.8	0.15 (1)	4.66			
AF-H	-6207 / 0	-91.8	-91.8	0.15 (1)	4.66			
H-AG	-4186 / 0	-91.8	-91.8	0.11 (1)	5.49			
AG-I	-4186 / 0	-91.8	-91.8	0.11 (1)	5.49			
I-J	-3668 / 0	-91.8	-91.8	0.16 (1)	5.71			
J-K	0 / 39	-91.8	-91.8	0.04 (1)	10.00			
V-B	-3086 / 0	0.0	0.0	0.11 (1)	7.81			
L-J	-3109 / 0	0.0	0.0	0.11 (1)	7.81			

V-AH	0 / 0	-18.5	-18.5	0.02 (1)	10.00
AH-U	0 / 0	-18.5	-18.5	0.02 (1)	10.00
U-AI	0 / 52	-18.5	-18.5	0.02 (1)	10.00
AI-AJ	0 / 52	-18.5	-18.5	0.02 (1)	10.00
AJ-T	0 / 52	-18.5	-18.5	0.02 (1)	10.00
T-S	0 / 0	-18.5	-18.5	0.01 (1)	10.00
R-AK	0 / 4033	-18.5	-18.5	0.38 (1)	10.00
AK-AL	0 / 4033	-18.5	-18.5	0.38 (1)	10.00
AL-AM	0 / 4033	-18.5	-18.5	0.38 (1)	10.00
AM-AN	0 / 4033	-18.5	-18.5	0.38 (1)	10.00
AN-Q	0 / 4033	-18.5	-18.5	0.38 (1)	10.00
Q-AO	0 / 6229	-18.5	-18.5	0.52 (1)	10.00
AO-AP	0 / 6229	-18.5	-18.5	0.52 (1)	10.00
AP-AQ	0 / 6229	-18.5	-18.5	0.52 (1)	10.00
AQ-AR	0 / 6229	-18.5	-18.5	0.52 (1)	10.00
AR-P	0 / 6229	-18.5	-18.5	0.52 (1)	10.00
O-P	0 / 46	0.0	0.0	0.08 (1)	10.00

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***
ADD'L 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 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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.32/1.00 (D-E:1), BC=0.52/1.00 (P-Q:1),
WB=0.43/1.00 (H-N:1), SS=0.15/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

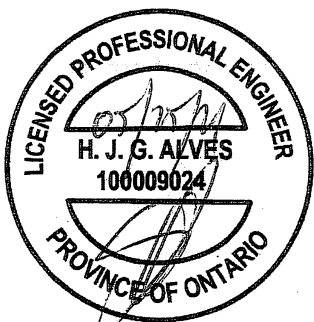
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN	MAX MIN	MAX MIN
MT20	650	371	1747	788	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (D) (INPUT = 0.90)
JSI METAL= 0.43 (N) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115691

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T70S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP- SXeizaG7GehlISbO55wWD7o0MW 2YxsXizqNzCv12

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMVW-t	MT20	5.0	6.0		
D	TTWW-m	MT20	6.0	9.0	3.00	2.25
E	TMVW-w	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMVW-p	MT20	4.0	6.0		
H	TMVW-t	MT20	5.0	6.0		
I	TTWW+m	MT20	6.0	9.0	4.00	1.75
J	TMVW-p	MT20	5.0	6.0	1.25	3.00
L	BMV1-p	MT20	3.0	6.0		
M	BMVW-t	MT20	5.0	6.0		
N	BMVW-t	MT20	8.0	9.0		
O	BMV-p	MT20	3.0	6.0		
P	BMVW-t	MT20	8.0	12.0	4.50	7.50
Q	BMVW-t	MT20	5.0	8.0		
R	BMVW-t	MT20	7.0	12.0	5.00	7.50
T	BMVW-w	MT20	3.0	6.0		
U	BMVW-t	MT20	6.0	9.0	2.75	4.50
V	BMV1-p	MT20	3.0	6.0		

NOTES- (1)

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
P-G	-771 / 0	0.0	0.0 0.10 (1)	7.81			
O-AS	0 / 94	-18.5	-18.5 0.03 (4)	10.00			
AS-AT	0 / 94	-18.5	-18.5 0.03 (4)	10.00			
AT-N	0 / 94	-18.5	-18.5 0.03 (4)	10.00			
N-AU	0 / 2917	-18.5	-18.5 0.21 (1)	10.00			
AU-M	0 / 2917	-18.5	-18.5 0.21 (1)	10.00			
M-AV	0 / 0	-18.5	-18.5 0.05 (4)	10.00			
AV-AW	0 / 0	-18.5	-18.5 0.05 (4)	10.00			
AW-L	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.
D	6-6-4	-38	-38	---	FRONT	VERT	DEAD	---	C1
D	6-6-4	-165	-165	---	FRONT	VERT	SNOW	---	C1
G	22-3-4	-4	-4	---	FRONT	VERT	TOTAL	---	C1
G	22-6-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
H	26-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
I	30-4-5	-38	-38	---	FRONT	VERT	DEAD	---	C1
I	30-4-5	-63	-63	---	FRONT	VERT	TOTAL	---	C1
I	30-4-5	-165	-165	---	FRONT	VERT	SNOW	---	C1
M	30-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
P	22-5-12	-59	-59	---	TOP	VERT	TOTAL	---	C1
P	22-5-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
S	7-0-0	-58	-58	---	TOP	VERT	TOTAL	---	C1
W	5-11-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
X	7-0-12	-18	-18	---	FRONT	VERT	TOTAL	---	C1
Y	9-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
Z	11-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AA	13-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AB	15-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AC	17-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AD	19-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AE	21-0-12	-4	-4	---	FRONT	VERT	TOTAL	---	C1
AF	24-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AG	28-0-12	-59	-59	---	FRONT	VERT	TOTAL	---	C1
AH	1-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AJ	3-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AJ	5-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AL	9-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AM	11-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AN	13-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AO	15-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AP	17-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AQ	19-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AR	21-0-12	-53	-53	---	TOP	VERT	TOTAL	---	C1
AS	24-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AT	26-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AU	28-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AV	32-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AW	34-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

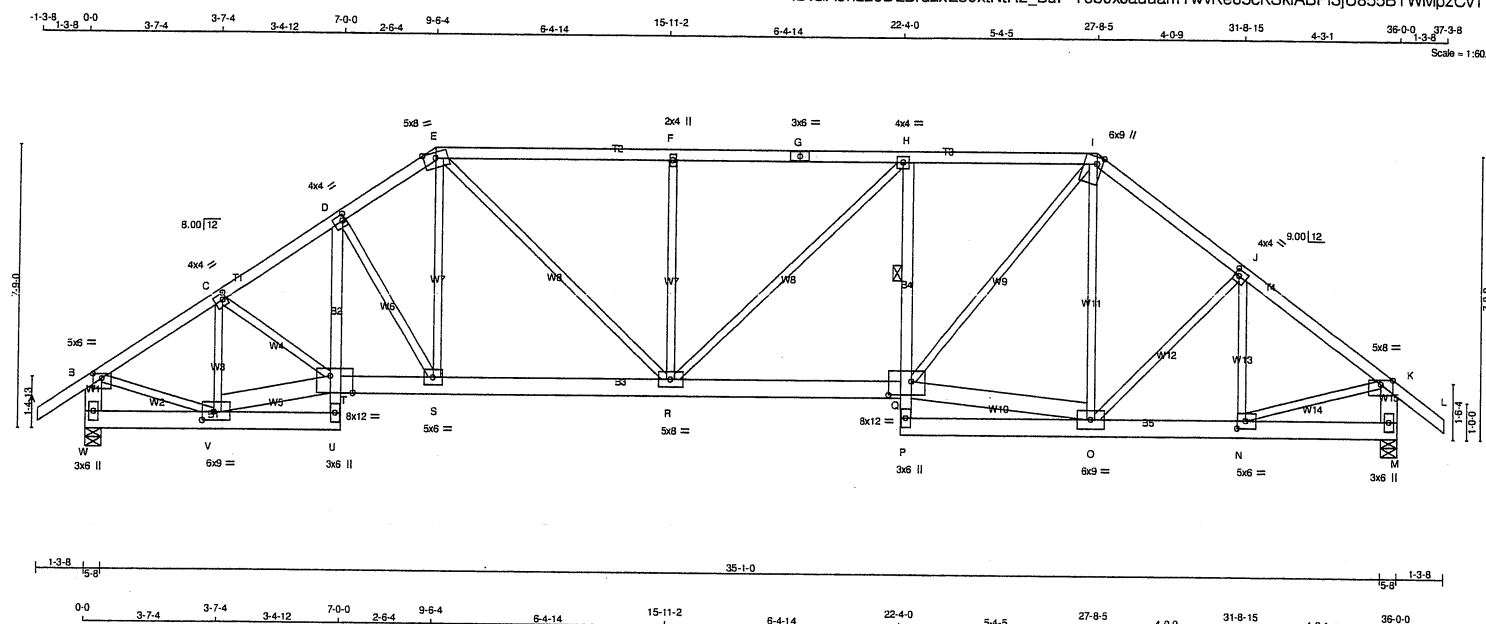
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2115691

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-Te50xJauuamYwvK8e5cKSKlABPl3jU855BTWmPzCv1



TOTAL WEIGHT = 205 lb

<u>LUMBER</u>					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER	DESCR	
A - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
G - I	2x4	DRY	No.2	SPF	
I - L	2x4	DRY	No.2	SPF	
W - B	2x6	DRY	No.2	SPF	
M - K	2x6	DRY	No.2	SPF	
W - U	2x6	DRY	No.2	SPF	
U - D	2x4	DRY	No.2	SPF	
T - Q	2x6	DRY	No.2	SPF	
P - H	2x4	DRY	No.2	SPF	
P - M	2x6	DRY	No.2	SPF	
ALL WEBS EXCEPT		2x3	DRY	No.2	SPF
V - T	2x6	DRY	No.2	SPF	
Q - O	2x6	DRY	No.2	SPF	

DRY: SEASONED LUMBER

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	CTMWW-t	MT20	4.0	4.0	2.00	1.25
D	TMVW-t	MT20	4.0	4.0	2.00	1.00
E	TTWW-m	MT20	5.0	8.0		
F	TMW+w	MT20	2.0	4.0		Edge
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	4.0	4.0		
I	TTWW-m	MT20	6.0	9.0	Edge	2.00
J	TMWW-t	MT20	4.0	4.0	2.00	1.50
K	BMVW-p	MT20	5.0	8.0		
M	BMV1+p	MT20	3.0	6.0		
N	BMWV-t	MT20	5.0	6.0	2.50	2.75
O	BMVWW-t	MT20	6.0	9.0		
P	BMV-p	MT20	3.0	6.0		
Q	BYMVW-1	MT20	8.0	12.0	4.50	7.50
R	BMVWW-t	MT20	5.0	8.0		
S	BMWV-t	MT20	5.0	6.0		
T	BYMVW-1	MT20	8.0	12.0	5.50	7.50
U	BMVW-p	MT20	3.0	6.0		
V	BMVWW-t	MT20	6.0	9.0	2.75	3.75
W	BMV1+a	MT20	3.0	6.0		

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
JT	VERT	DOWN	HORZ	UPLIFT	IN-SX
W	2110	0	2110	0	5-8
M	2111	0	2111	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
W	1490	991 / 0	0 / 0	0 / 0	0 / 0	499 / 0	0 / 0
M	1491	992 / 0	0 / 0	0 / 0	0 / 0	499 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.27 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-Q.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	V-C	-1079 / 0	0.23 (1)
B-C	-2250 / 0	-91.8	-91.8 0.21 (1)	4.38	V-T	0 / 1989	0.23 (1)
C-D	-2930 / 0	-91.8	-91.8 0.25 (1)	3.87	C-D	0 / 603	0.14 (1)
D-E	-2648 / 0	-91.8	-91.8 0.16 (1)	4.14	D-T	-484 / 0	0.22 (1)
E-F	-2834 / 0	-91.8	-91.8 0.86 (1)	3.27	S-E	0 / 501	0.11 (1)
F-G	-2834 / 0	-91.8	-91.8 0.85 (1)	3.27	E-R	0 / 891	0.20 (1)
G-H	-2834 / 0	-91.8	-91.8 0.85 (1)	3.27	R-F	-666 / 0	0.47 (1)
H-I	-2674 / 0	-91.8	-91.8 0.55 (1)	3.69	R-H	0 / 217	0.05 (1)
I-J	-2198 / 0	-91.8	-91.8 0.35 (1)	4.27	Q-O	0 / 1729	0.20 (1)
J-K	-2180 / 0	-91.8	-91.8 0.35 (1)	4.28	Q-I	0 / 1483	0.33 (1)
K-L	0 / 38	-91.8	-91.8 0.12 (1)	10.00	O-I	-173 / 9	0.18 (1)
W-B	-2069 / 0	0.0	0.0 0.13 (1)	7.05	C-J	-47 / 0	0.03 (1)
M-K	-2062 / 0	0.0	0.0 0.14 (1)	7.06	N-J	-420 / 0	0.13 (1)
					B-V	0 / 1963	0.44 (1)
					N-K	0 / 1824	0.41 (1)
W-V	0 / 0	-18.5	-18.5 0.03 (1)	10.00			
V-U	0 / 38	-18.5	-18.5 0.04 (1)	10.00			
U-T	0 / 42	0.0	0.0 0.06 (1)	10.00			
T-D	0 / 287	0.0	0.0 0.10 (1)	10.00			
T-S	0 / 2439	-18.5	-18.5 0.33 (1)	10.00			
S-R	0 / 2196	-18.5	-18.5 0.30 (1)	10.00			
R-Q	0 / 2680	-18.5	-18.5 0.37 (1)	10.00			
P-Q	0 / 43	0.0	0.0 0.05 (1)	10.00			
Q-H	-714 / 0	0.0	0.0 0.08 (1)	6.25			
P-O	0 / 35	-18.5	-18.5 0.06 (4)	10.00			
O-N	0 / 1765	-18.5	-18.5 0.25 (1)	10.00			
N-M	0 / 0	-18.5	-18.5 0.04 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR
SMALL BUILDING REQUIREMENTS OF PART 9,
NBCC 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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.26")

CSI: TC=0.86/1.00 (E-F:1), BC=0.37/1.00 (Q-R:1),
WB=0.47/1.00 (F-R:1), SSI=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.85 (G) (INPUT = 0.90)

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

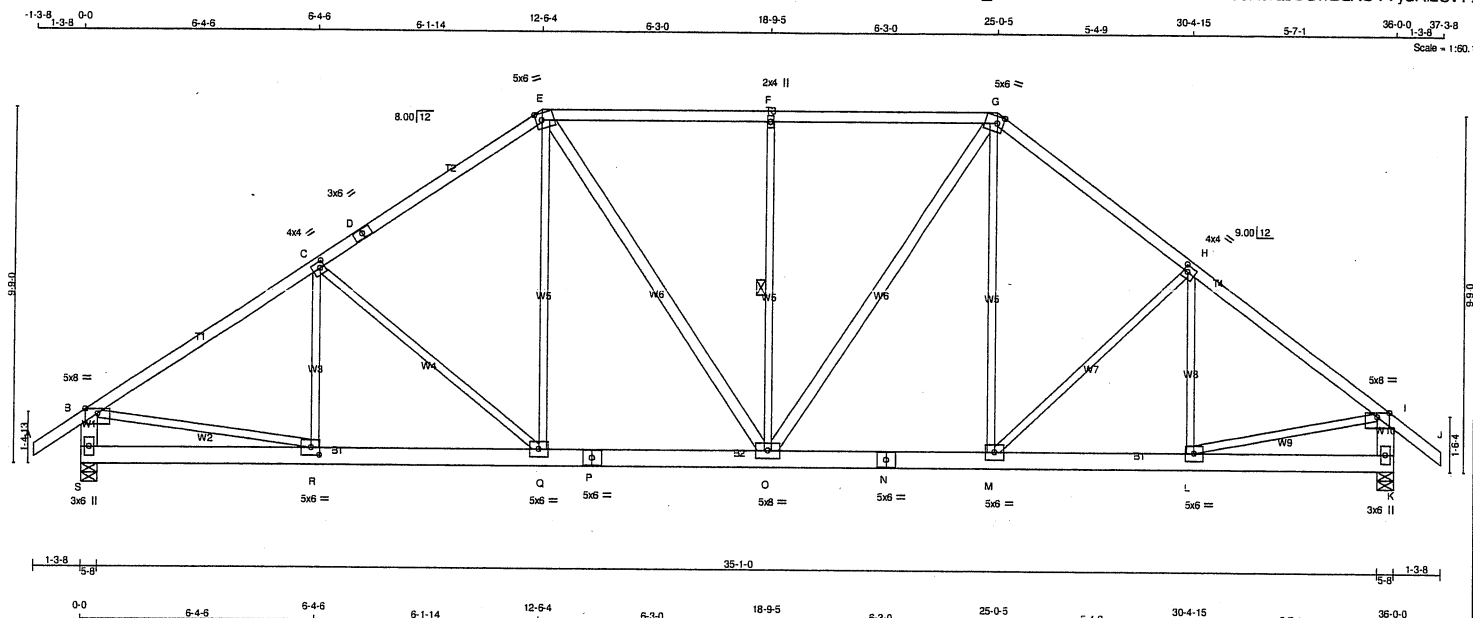


Structural component only
DWG# T-2115692

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T72	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:22 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtrZ_BuP-P1DnM?c8QB0G9DU1GWeoX9ra5DSwBLXOYVdRizCv1?



TOTAL WEIGHT = 195 lb
(M/F)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTVW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-w	MT20	2.0	4.0		
G	TTVW-m	MT20	5.0	6.0	Edge	2.00
H	TMVW-t	MT20	4.0	4.0	2.00	1.50
I	TMVW-p	MT20	5.0	8.0	Edge	
K	BMV1+p	MT20	3.0	6.0		
L, M, Q						
L	BMVW-t	MT20	5.0	6.0		
N	BS-t	MT20	5.0	6.0		
O	BMVW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	6.0		
R	BMVW-t	MT20	5.0	6.0	2.50	2.75
S	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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
	VERT	DOWN	BRG	BRG
JT				
S	2110	0	5-8	5-8
K	2111	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
S	1490	991 / 0	0 / 0	0 / 0	0 / 0	499 / 0
K	1491	992 / 0	0 / 0	0 / 0	0 / 0	499 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.78 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-O.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	R-C	-214 / 31	0.10 (1)
B-C	-2449 / 0	-91.8 -91.8	0.64 (1)	3.78	C-Q	-437 / 0	0.61 (1)
C-D	-2125 / 0	-91.8 -91.8	0.58 (1)	4.06	Q-E	0 / 407	0.09 (1)
D-E	-2125 / 0	-91.8 -91.8	0.58 (1)	4.06	E-O	0 / 384	0.06 (1)
E-F	-1952 / 0	-91.8 -91.8	0.53 (1)	4.24	O-F	-703 / 0	0.43 (1)
F-G	-1952 / 0	-91.8 -91.8	0.53 (1)	4.24	O-G	0 / 590	0.09 (1)
G-H	-2066 / 0	-91.8 -91.8	0.44 (1)	4.30	M-G	0 / 322	0.07 (1)
H-I	-2251 / 0	-91.8 -91.8	0.47 (1)	4.13	M-H	-290 / 0	0.33 (1)
I-J	0 / 38	-91.8 -91.8	0.12 (1)	10.00	L-H	-272 / 0	0.13 (1)
S-B	-2053 / 0	0.0 0.0	0.13 (1)	7.06	B-R	0 / 2095	0.47 (1)
K-I	-2059 / 0	0.0 0.0	0.14 (1)	7.06	L-I	0 / 1865	0.42 (1)
S-R	0 / 0	-18.5 -18.5	0.08 (4)	10.00			
R-Q	0 / 2069	-18.5 -18.5	0.28 (1)	10.00			
Q-P	0 / 1739	-18.5 -18.5	0.25 (1)	10.00			
P-O	0 / 1739	-18.5 -18.5	0.25 (1)	10.00			
O-N	0 / 1624	-18.5 -18.5	0.23 (1)	10.00			
N-M	0 / 1624	-18.5 -18.5	0.23 (1)	10.00			
M-L	0 / 1829	-18.5 -18.5	0.25 (1)	10.00			
L-K	0 / 0	-18.5 -18.5	0.06 (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 6.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBCG 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 (1.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.17")

CSI: TC=0.64/1.00 (B-C:1), BC=0.28/1.00 (Q-R:1), WB=0.61/1.00 (C-Q:1), SS=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.85 (L) (INPUT = 0.90)
JSI METAL= 0.47 (R) (INPUT = 1.00)

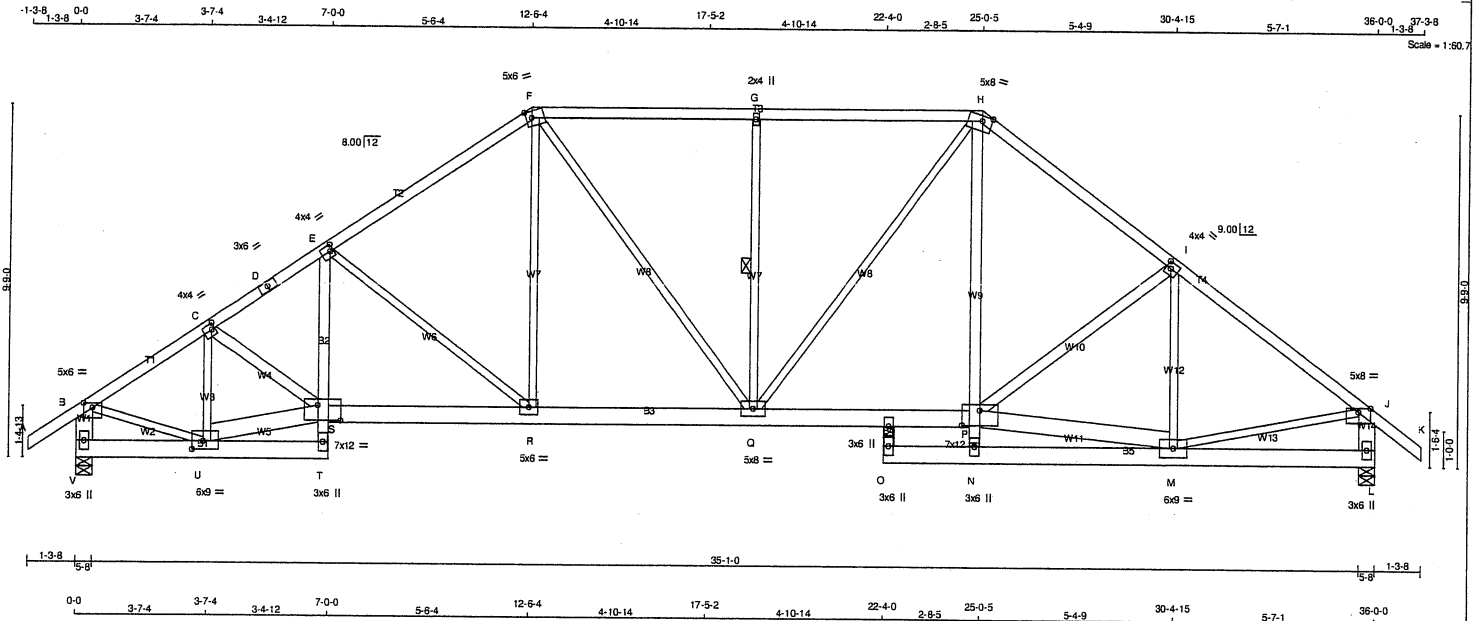


Structural component only
DWG# T-2115693

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T72S	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-tDn9ZLdmBV86nM2DqE914MNmHdnPwm1Xn9hAz8zCv1



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - K	2x4	DRY	No.2	SPF	
V - B	2x6	DRY	No.2	SPF	
L - J	2x6	DRY	No.2	SPF	
V - T	2x6	DRY	No.2	SPF	
T - E	2x4	DRY	No.2	SPF	
S - P	2x6	DRY	No.2	SPF	
O - L	2x6	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
U - S	2x6	DRY	No.2	SPF	
C - S	2x4	DRY	No.2	SPF	
N - H	2x4	DRY	No.2	SPF	
P - M	2x6	DRY	No.2	SPF	
P - I	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TS-t	MT20	3.0	6.0		
E	TMVW-t	MT20	4.0	4.0	2.00	1.00
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	8.0	1.75	3.25
I	TMVW-t	MT20	4.0	4.0	2.00	1.50
J	TMVW-p	MT20	5.0	8.0	Edge	
L	BMV1+p	MT20	3.0	6.0		
M	BMVWW-t	MT20	6.0	9.0		
N	BMV-w	MT20	3.0	6.0		
O	NP-w	MT20	3.0	6.0		
P	BMVWW-t	MT20	7.0	12.0	5.00	6.00
Q	BMVWW-t	MT20	5.0	8.0		
R	BMVWW-t	MT20	5.0	8.0		
S	BMVWW-t	MT20	7.0	12.0	5.00	7.50
T	BMV+p	MT20	3.0	6.0		
U	BMVWW-t	MT20	6.0	9.0	2.75	3.75
V	BMV1+p	MT20	3.0	6.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UP
V	2125	0	2125	0
L	2144	0	2144	0

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
V	1502	991 / 0	0 / 0	0 / 0	0 / 0	511 / 0	0 / 0	
L	1517	992 / 0	0 / 0	0 / 0	0 / 0	525 / 0	0 / 0	

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

BRACING

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 10.00 FT

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF 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: (4)

	CHORDS	FACTORED	W E B S	FACTORED
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00
B-C	-2258 / 0	-91.8 -91.8	0.22 (1)	4.37
C-D	-2967 / 0	-91.8 -91.8	0.37 (1)	3.72
D-E	-2967 / 0	-91.8 -91.8	0.37 (1)	3.72
E-F	-2385 / 0	-91.8 -91.8	0.47 (1)	4.02
F-G	-2218 / 0	-91.8 -91.8	0.54 (1)	3.99
G-H	-2218 / 0	-91.8 -91.8	0.55 (1)	3.99
H-I	-2351 / 0	-91.8 -91.8	0.46 (1)	4.05
I-J	-2299 / 0	-91.8 -91.8	0.47 (1)	4.08
J-K	0 / 38	-91.8 -91.8	0.12 (1)	10.00
V-B	-2083 / 0	0.0 0.0	0.14 (1)	7.03
L-J	-2095 / 0	0.0 0.0	0.14 (1)	7.01
V-U	0 / 0	-18.5 -18.5	0.03 (1)	10.00
U-T	0 / 37	-18.5 -18.5	0.04 (1)	10.00
T-S	0 / 43	0.0 0.0	0.06 (1)	10.00
S-E	0 / 268	0.0 0.0	0.10 (1)	10.00
S-R	0 / 2505	-18.5 -18.5	0.33 (1)	10.00
R-Q	0 / 1968	-18.5 -18.5	0.27 (1)	10.00
Q-P	0 / 1860	-18.5 -18.5	0.26 (1)	10.00
O-N	0 / 0	-18.5 -18.5	0.07 (4)	10.00
N-M	0 / 23	-18.5 -18.5	0.06 (4)	10.00
M-L	0 / 0	-18.5 -18.5	0.06 (4)	10.00
U-C	0 / 1964	0.44 (1)		
M-J	0 / 1904	0.43 (1)		
P-M	0 / 1876	0.22 (1)		
P-I	-25 / 0	0.02 (1)		

TOTAL WEIGHT = 4 X 215 = 862 lb [M/F]

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (1.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.19")

CSI: TC=0.55/1.00 (G-H:1), BC=0.33/1.00 (R-S:1), WB=0.72/1.00 (E-R:1), SSI=0.28/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.86 (C) (INPUT = 0.90)
JSI METAL= 0.43 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115694

CONTINUED ON PAGE 2

JOB NAME 411170	TRUSS NAME T72S	QUANTITY 4	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-tDn9ZLdmBV86nM2DqE914MNmHdnPwm1Xn9hAz8zCv1

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	NP+w	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-2115694 *mn*

JOB NAME 411170	TRUSS NAME T73	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-LQLXnhdOyoGzPWdQNxhGdawuS116fCXq0pRkUazCv0z

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TMVW-t	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	TMVW-t	MT20	5.0	6.0		
G	TTW+m	MT20	5.0	6.0		
H	TMVW-t	MT20	6.0	9.0	3.00	3.50
I	TMVW-t	MT20	6.0	10.0		Edge
J	BMV1-t	MT20	6.0	9.0	Edge	0.50
K	BMVW-t	MT20	8.0	9.0	4.50	3.75
L	BMVW-t	MT20	6.0	10.0		
M	BS-t	MT20	5.0	6.0		
N	BMVW-t	MT20	5.0	6.0		
O	BS-t	MT20	5.0	6.0		
P	BMVW-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.75
R	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.

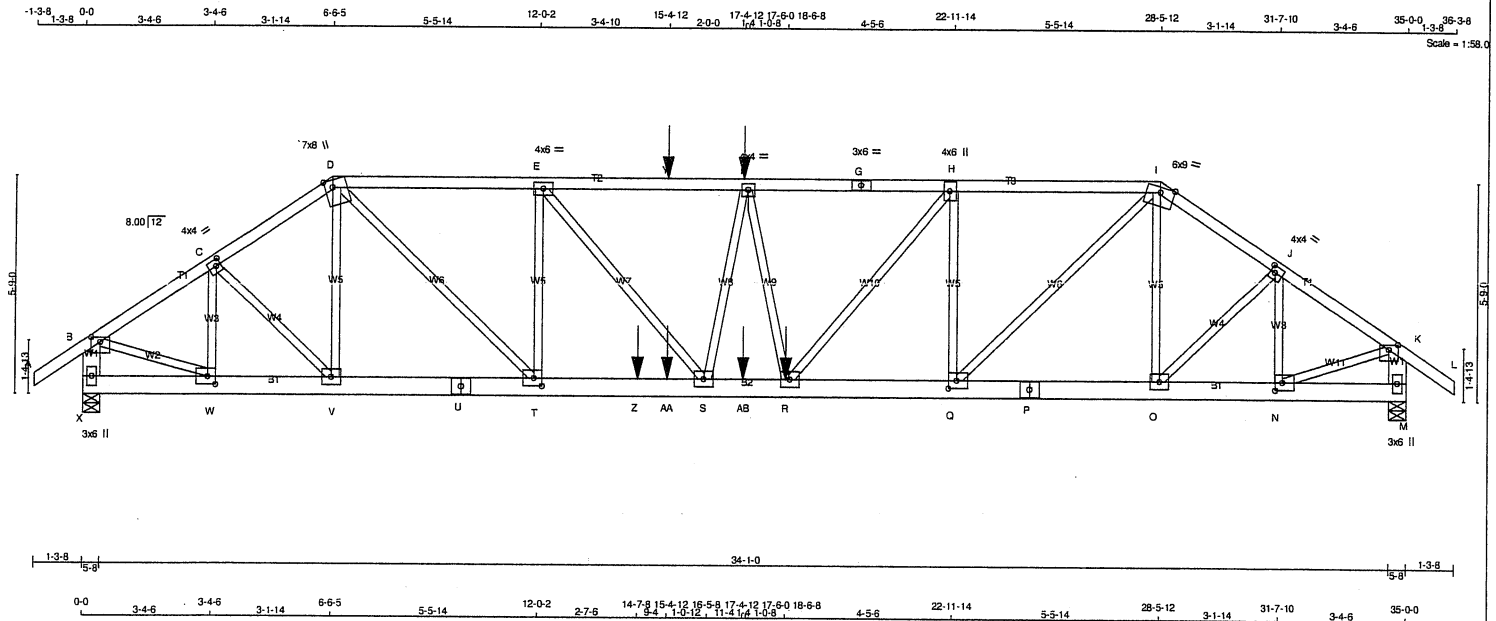


Structural component only
DWG# T-2115695 *in*

JOB NAME 411170	TRUSS NAME T74	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:26 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-HoSIBmfUQWheqnoVMjki??GkqiA79qzT7wrZTzCvOx



LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF
A - D	2x4	DRY	No.2	SPF	SPF
D - G	2x4	DRY	No.2	SPF	SPF
G - I	2x4	DRY	No.2	SPF	SPF
I - L	2x4	DRY	No.2	SPF	SPF
X - B	2x6	DRY	No.2	SPF	SPF
M - K	2x6	DRY	No.2	SPF	SPF
X - U	2x6	DRY	No.2	SPF	SPF
U - P	2x6	DRY	No.2	SPF	SPF
P - M	2x6	DRY	No.2	SPF	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	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 - D 1	12	TOP SIDE(0.0)
D - G 1	12	TOP
G - I 1	12	TOP
I - L 1	12	TOP
X - B 2	12	TOP
M - K 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
X - U 2	12	TOP
U - P 2	12	SIDE(0.0)
P - M 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 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		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
X	3745	0	3745	0	0	5-8	5-8	5-8	5-8
M	3718	0	3718	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
X	2647	1746 / 0	0 / 0	0 / 0	0 / 0	901 / 0	0 / 0
M	2629	1727 / 0	0 / 0	0 / 0	0 / 0	902 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.08 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 0.07 (1)	10.00	W-C	-1078 / 0	0.12 (1)	
B-C	-4259 / 0	-91.8 -91.8 0.14 (1)	4.53	C-V	0 / 600	0.07 (1)	
C-D	-4811 / 0	-91.8 -91.8 0.15 (1)	4.29	V-D	-319 / 0	0.08 (1)	
D-E	-6697 / 0	-91.8 -91.8 0.49 (1)	3.44	D-T	0 / 3804	0.47 (1)	
E-Y	-8019 / 0	-91.8 -91.8 0.60 (1)	3.08	T-E	-2199 / 0	0.53 (1)	
Y-F	-8019 / 0	-91.8 -91.8 0.60 (1)	3.08	Q-H	-2432 / 0	0.59 (1)	
F-G	-8144 / 0	-91.8 -91.8 0.59 (1)	3.08	Q-I	0 / 3702	0.46 (1)	
G-H	-8144 / 0	-91.8 -91.8 0.59 (1)	3.08	O-I	-269 / 0	0.07 (1)	
H-I	-6600 / 0	-91.8 -91.8 0.46 (1)	3.50	O-J	0 / 609	0.08 (1)	
I-J	-4782 / 0	-91.8 -91.8 0.15 (1)	4.30	N-J	-1089 / 0	0.12 (1)	
J-K	-4222 / 0	-91.8 -91.8 0.14 (1)	4.55	B-W	0 / 3709	0.46 (1)	
K-L	0 / 35	-91.8 -91.8 0.07 (1)	10.00	N-K	0 / 3676	0.46 (1)	
X-B	-3678 / 0	0.0 0.0 0.13 (1)	7.34	S-F	-644 / 0	0.16 (1)	
M-K	-3648 / 0	0.0 0.0 0.13 (1)	7.35	F-R	0 / 103	0.02 (4)	
				E-S	0 / 2086	0.26 (1)	
				R-H	0 / 2437	0.30 (1)	
X-W	0 / 0	-18.5 -18.5 0.04 (1)	10.00				
W-V	0 / 3556	-18.5 -18.5 0.28 (1)	10.00				
V-U	0 / 3975	-18.5 -18.5 0.33 (1)	10.00				
U-T	0 / 3975	-18.5 -18.5 0.33 (1)	10.00				
T-Z	0 / 6697	-18.5 -18.5 0.71 (1)	10.00				
Z-AA	0 / 6697	-18.5 -18.5 0.71 (1)	10.00				
AA-S	0 / 6697	-18.5 -18.5 0.71 (1)	10.00				
S-AB	0 / 8140	-18.5 -18.5 0.66 (1)	10.00				
AB-R	0 / 8140	-18.5 -18.5 0.66 (1)	10.00				
R-Q	0 / 6600	-18.5 -18.5 0.55 (1)	10.00				
Q-P	0 / 3952	-18.5 -18.5 0.29 (1)	10.00				
P-O	0 / 3952	-18.5 -18.5 0.29 (1)	10.00				
O-N	0 / 3525	-18.5 -18.5 0.28 (1)	10.00				
N-M	0 / 0	-18.5 -18.5 0.05 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	17-4-12	-59	-59	---	BACK	VERT	TOTAL	---	C1
R	18-6-8	-1577	-1577	---	BACK	VERT	TOTAL	---	C1
Y	15-4-12	-59	-59	---	BACK	VERT	TOTAL	---	C1
Z	14-7-8	-651	-651	---	BACK	VERT	TOTAL	---	C1
AA	15-4-12	-14	-14	---	BACK	VERT	TOTAL	---	C1
AB	17-4-12	-14	-14	---	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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.34")

CSI: TC=0.60/1.00 (E-F:1), BC=0.71/1.00 (S-T:1),
WB=0.59/1.00 (H-Q:1), SS=0.21/1.00 (S-T: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	650 371 1747 788 1987 1873	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.83 (T) (INPUT = 0.90)
JSI METAL = 0.40 (W) (INPUT = 1.00)



Structural component only
DWG# T-2115696

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T74	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-HoSIBMffUQWheqnoVMiki??GkqiA79qzT7wrZTzCv0x

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	TMWW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW+m	MT20	7.0	8.0	Edge	2.50
E	TMWW-t	MT20	4.0	6.0		
F	TMWW-t	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	4.0	6.0		
I	TTWW-m	MT20	6.0	9.0	Edge	
J	TMWW-t	MT20	4.0	4.0	2.00	1.50
K	TMWV-p	MT20	5.0	6.0	1.50	3.00
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	6.0	2.50	2.25
O, R, S, V						
O	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q, T, W						
Q	BMWW-t	MT20	5.0	6.0	2.50	2.50
U	BS-t	MT20	5.0	6.0		
X	BMV1+p	MT20	3.0	6.0		

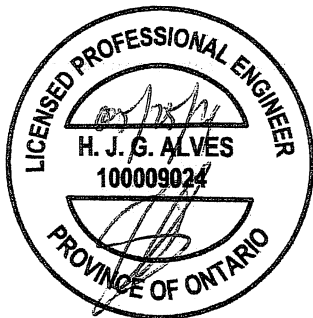
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

NOTES- (1)

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

CONNECTION REQUIREMENTS

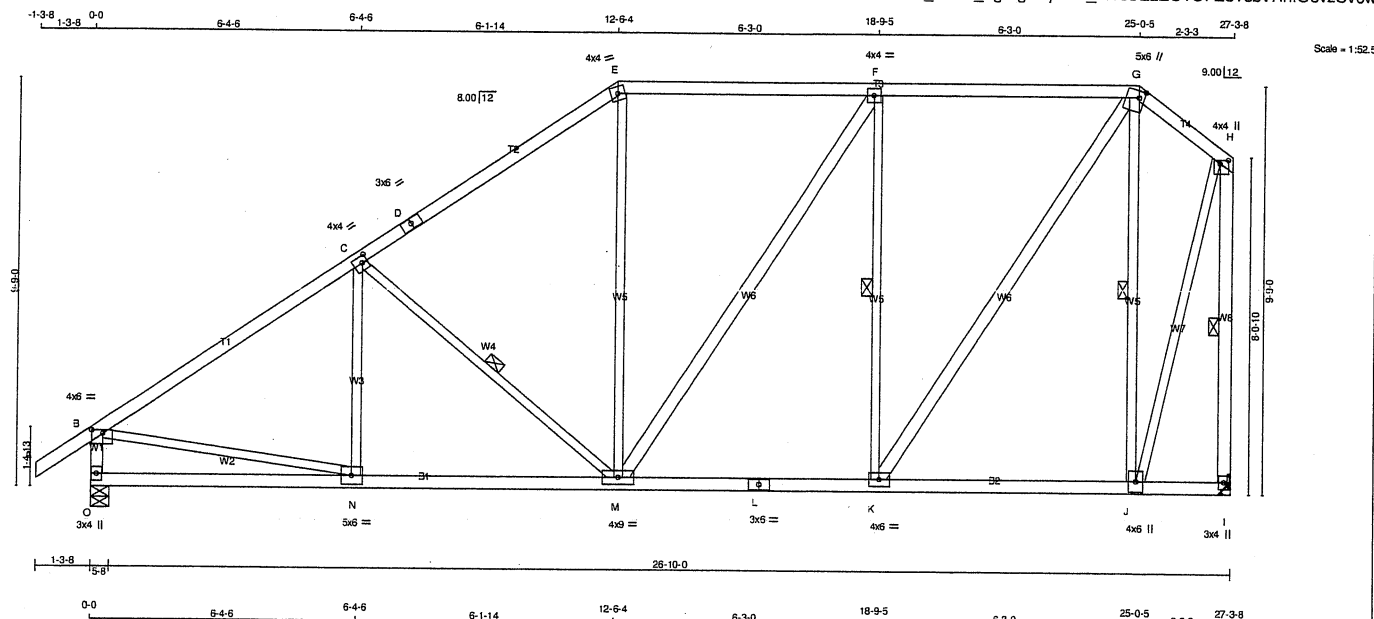
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2115696 2/2

JOB NAME 411170	TRUSS NAME T76	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	4.0	6.0	1.00	3.25
C TMVW-t	MT20	4.0	4.0	2.00	1.50
D TS-t	MT20	3.0	6.0		
E TTW-m	MT20	4.0	4.0		
F TMVW-t	MT20	4.0	4.0		
G TTWV-m	MT20	5.0	6.0	2.00	1.50
H TMVW-p	MT20	4.0	4.0	1.00	2.25
I BMV1+p	MT20	3.0	4.0		
J BMVW-t	MT20	4.0	6.0		
K BMVW-t	MT20	4.0	6.0		
L BS-t	MT20	3.0	6.0		
M BMVWV-t	MT20	4.0	9.0		
N BMVW-t	MT20	5.0	6.0		
O 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	IN-SX	IN-SX
O	1630	0	1630	0	5-8	5-8
I	1504	0	1504	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. MIN. SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1151	768 / 0	0 / 0	0 / 0	0 / 0	382 / 0	0 / 0
I	1064	698 / 0	0 / 0	0 / 0	0 / 0	366 / 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 = 4.44 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-M, F-K, G-J, 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	N-C	-121 / 63	0.06 (1)
B-C	-1733 / 0	-91.8 -91.8	0.56 (1)	4.44	C-M	-516 / 0	0.24 (1)
C-D	-1340 / 0	-91.8 -91.8	0.51 (1)	4.97	M-E	0 / 293	0.07 (1)
D-E	-1340 / 0	-91.8 -91.8	0.51 (1)	4.97	M-F	0 / 183	0.03 (1)
E-F	-1084 / 0	-91.8 -91.8	0.48 (1)	5.41	K-F	-862 / 0	0.55 (1)
F-G	-984 / 0	-91.8 -91.8	0.48 (1)	5.61	K-G	0 / 1176	0.19 (1)
G-H	-435 / 0	-91.8 -91.8	0.06 (1)	6.25	J-G	-1041 / 0	0.66 (1)
O-B	-1582 / 0	0.0 0.0	0.16 (1)	6.56	B-N	0 / 1495	0.34 (1)
I-H	-1497 / 0	0.0 0.0	0.45 (1)	5.36	J-H	0 / 1183	0.27 (1)
O-N	0 / 0	-18.5 -18.5	0.17 (4)	10.00			
N-M	0 / 1474	-18.5 -18.5	0.32 (1)	10.00			
M-L	0 / 985	-18.5 -18.5	0.24 (1)	10.00			
L-K	0 / 985	-18.5 -18.5	0.24 (1)	10.00			
K-J	0 / 335	-18.5 -18.5	0.17 (4)	10.00			
J-I	0 / 0	-18.5 -18.5	0.10 (4)	10.00			

TOTAL WEIGHT = 3 X 147 = 441 lb [M/F]

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.06")
ALLOWABLE DEFL.(TL) = $L/360$ (0.91")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.12")

CSI: TC=0.56/1.00 (B-C:1), BC=0.32/1.00 (M-N:1), WB=0.66/1.00 (G-J:1), SS=0.28/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

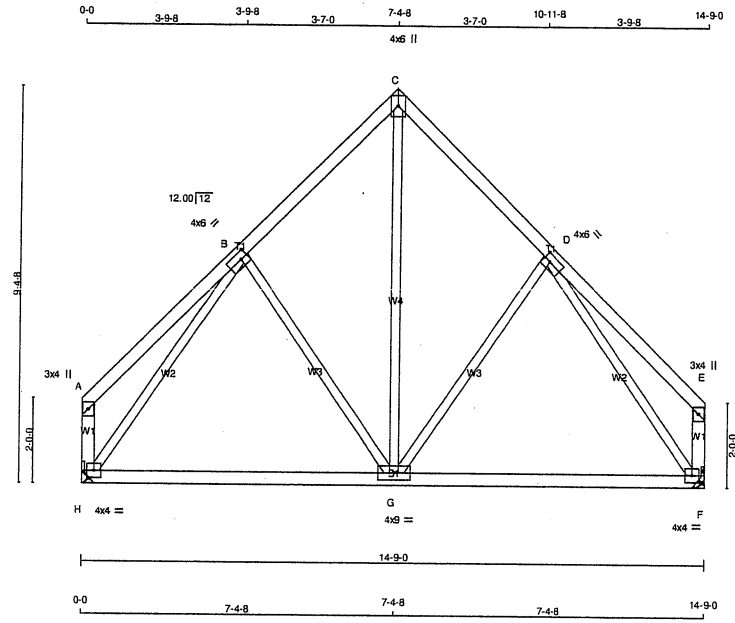
JSI GRIP= 0.84 (H) (INPUT = 0.90)
JSI METAL= 0.39 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115697

JOB NAME 411170	TRUSS NAME T77	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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TOTAL WEIGHT = 3 X 72 = 216 lb [M/F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMV+p	MT20	3.0	4.0	
B	TMVW-t	MT20	4.0	6.0	2.00 2.00
C	TTW+p	MT20	4.0	6.0	
D	TMVW-t	MT20	4.0	6.0	2.00 2.00
E	TMV+p	MT20	3.0	4.0	
F	BMVW1-t	MT20	4.0	4.0	
G	BMVW1-t	MT20	4.0	9.0	
H	BMVW1-t	MT20	4.0	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	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
H	813 0	813 0	0 0	MECHANICAL	
F	813 0	813 0	0 0	MECHANICAL	

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

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	575	-377 / 0	0 / 0	0 / 0	0 / 0	198 / 0	0 / 0
F	575	-377 / 0	0 / 0	0 / 0	0 / 0	198 / 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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.20 (1)	G-C	0 / 434	0.10 (1)	
B-C	-517 / 0	-91.8 -91.8	0.16 (1)	G-D	-161 / 0	0.12 (1)	
C-D	-517 / 0	-91.8 -91.8	0.16 (1)	B-G	-161 / 0	0.12 (1)	
D-E	0 / 28	-91.8 -91.8	0.20 (1)	H-B	-766 / 0	0.56 (1)	
H-A	-131 / 0	0.0 0.0	0.02 (1)	D-F	-766 / 0	0.56 (1)	
F-E	-131 / 0	0.0 0.0	0.02 (1)				
H-G	0 / 436	-18.5 -18.5	0.32 (4)				
G-F	0 / 436	-18.5 -18.5	0.32 (4)				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.49")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.49")
CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CSI: TC=0.20/1.00 (A-B:1), BC=0.32/1.00 (G-H:4), WB=0.56/1.00 (B-H:1), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

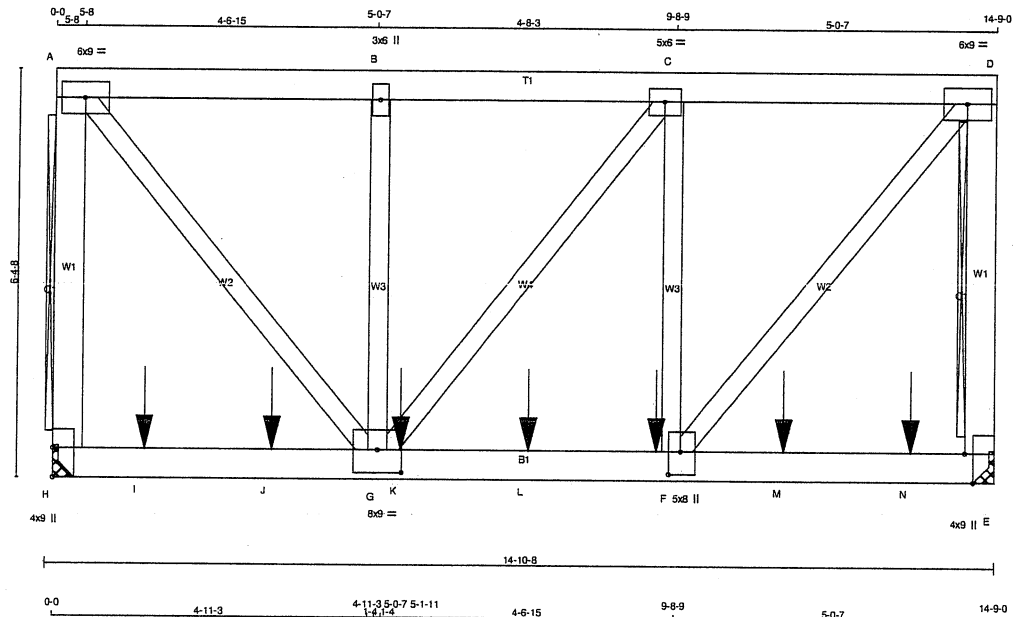
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.55 (F) (INPUT = 0.90)
JSI METAL= 0.18 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115698

JOB NAME 411170	TRUSS NAME T78	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed May 26 07:35:09 2021 Page 1 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-uswMKSJh7YKWF3lu_bFABpcwDzA1tj5RtM8h1zCiqG			



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
H - A	2x6	DRY	No.2
A - D	2x6	DRY	No.2
E - D	2x6	DRY	No.2
H - E	2x6	DRY	No.2
ALL WEBS	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
H-A 2	12	TOP
A-D 2	12	TOP
D-E 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H-E 2	12	SIDE (183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
F-C 1	6	SIDE (204.6)
G-B 1	6	SIDE (204.6)
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.

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	TMW-t	MT20	6.0	9.0		
B	TMW-w	MT20	3.0	6.0		
C	TMW-t	MT20	5.0	6.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
H	5947	0	5947	0
E	6082	0	6082	0

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
H	4199	2789 / 0	0 / 0	0 / 0	0 / 0	1410 / 0	0 / 0
E	4295	2853 / 0	0 / 0	0 / 0	0 / 0	1442 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.66 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.

2x4 DRY SPF No.2 T-BRACE AT A-H, D-E

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 5" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM	TO	LENGTH	FR-TO		LENGTH
H-A	-4671 / 0	0.0	0.0	0.46 (1)	F-D	0 / 5924	0.52 (1)
A-B	-3826 / 0	-91.8	-91.8	0.12 (1)	A-G	0 / 5874	0.52 (1)
B-C	-3826 / 0	-91.8	-91.8	0.07 (1)	F-C	-426 / 0	0.09 (1)
C-D	-3858 / 0	-91.8	-91.8	0.11 (1)	G-B	-461 / 0	0.10 (1)
E-D	-4706 / 0	0.0	0.0	0.47 (1)	G-C	-53 / 0	0.02 (1)
H-I	0 / 0	-18.5	-18.5	0.67 (1)			
I-J	0 / 0	-18.5	-18.5	0.67 (1)			
J-G	0 / 0	-18.5	-18.5	0.67 (1)			
G-K	0 / 3858	-18.5	-18.5	0.84 (1)			
K-L	0 / 3858	-18.5	-18.5	0.84 (1)			
L-F	0 / 3858	-18.5	-18.5	0.84 (1)			
F-M	0 / 0	-18.5	-18.5	0.66 (1)			
M-N	0 / 0	-18.5	-18.5	0.66 (1)			
N-E	0 / 0	-18.5	-18.5	0.66 (1)			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	9-5-4	-1049	-1049	---	BACK	VERT	TOTAL	---	C1
I	1-5-4	-1049	-1049	---	BACK	VERT	TOTAL	---	C1
J	3-5-4	-1049	-1049	---	BACK	VERT	TOTAL	---	C1
K	5-5-4	-1049	-1049	---	BACK	VERT	TOTAL	---	C1
L	7-5-4	-1049	-1049	---	BACK	VERT	TOTAL	---	C1
M	11-5-4	-1049	-1049	---	BACK	VERT	TOTAL	---	C1
N	13-5-4	-1049	-1049	---	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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.49")
CALCULATED VERT. DEFL.(LL)= L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.49")
CALCULATED VERT. DEFL.(TL)= L/999 (0.14")

CSI: TC=0.47/1.00 (D-E:1), BC=0.84/1.00 (F-G:1), WB=0.52/1.00 (D-F:1), SS=0.72/1.00 (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
(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= 0.86 (G) (INPUT = 0.90)
JSI METAL= 0.70 (F) (INPUT = 1.00)



Structural component only
DWG# T-2115700

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T78	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
D	TMVW-t	MT20	6.0	9.0		
E	BMV1+t	MT20	4.0	9.0	Edge	1.50
F	BMWW+t	MT20	5.0	8.0	4.25	2.25
G	BMWWW-t	MT20	8.0	9.0	4.25	4.50
H	BMV1+t	MT20	4.0	9.0	5.50	

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

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

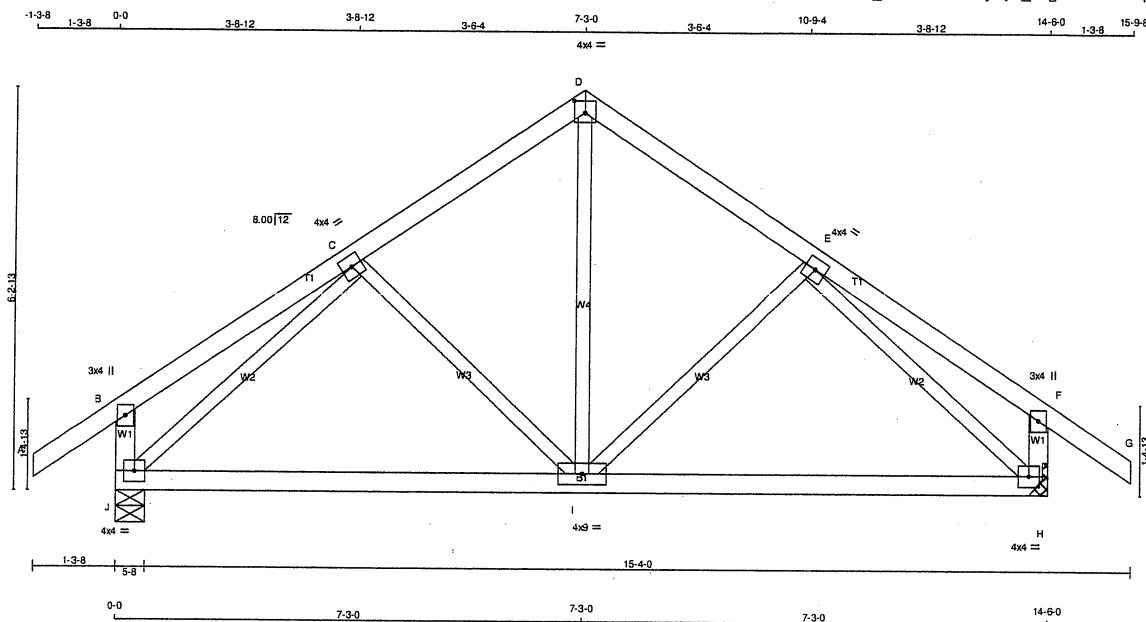


Structural component only
DWG# T-2115700 *7/2*

JOB NAME 411170	TRUSS NAME T79	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-emGBF4jnlly8_kbgmlvJvP2iEqfVMoUeIdPdcEhzCv0s



TOTAL WEIGHT = 62 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
J - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
J - H	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	TMW-w	MT20	4.0	4.0	
D	TTW-p	MT20	4.0	4.0	2.25 2.00
E	TMW-w	MT20	4.0	4.0	
F	TMV+p	MT20	3.0	4.0	
H	BMVW1-t	MT20	4.0	4.0	
I	BMVW1-t	MT20	4.0	9.0	
J	BMVW1-t	MT20	4.0	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		REQRD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
J	925	0	925	0	0	5-8	5-8		
H	925	0	925	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 LCASE	MAX./MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
J	COMBINED	SNOW	LIVE	PERM.LIVE	
J	652	441 / 0	0 / 0	0 / 0	211 / 0
H	652	441 / 0	0 / 0	0 / 0	211 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH (FT)
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	I-D	0 / 421	0.09 (1)	10.00
B-C	0 / 21	-91.8 -91.8	0.19 (1)	I-E	-184 / 0	0.08 (1)	10.00
C-D	-633 / 0	-91.8 -91.8	0.15 (1)	C-I	-184 / 0	0.08 (1)	6.25
D-E	-633 / 0	-91.8 -91.8	0.15 (1)	J-C	-893 / 0	0.36 (1)	6.25
E-F	0 / 21	-91.8 -91.8	0.19 (1)	E-H	-893 / 0	0.36 (1)	10.00
F-G	0 / 35	-91.8 -91.8	0.12 (1)				10.00
J-B	-254 / 0	0.0 0.0	0.03 (1)				7.81
H-F	-254 / 0	0.0 0.0	0.03 (1)				7.81
J-I	0 / 642	-18.5 -18.5	0.33 (4)				10.00
I-H	0 / 642	-18.5 -18.5	0.33 (4)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.48")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.48")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.19/1.00 (E-F:1), BC=0.33/1.00 (I-J:4), WB=0.36/1.00 (E-H:1), SS=0.13/1.00 (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= 0.72 (E) (INPUT = 0.90)
JSI METAL= 0.29 (E) (INPUT = 1.00)

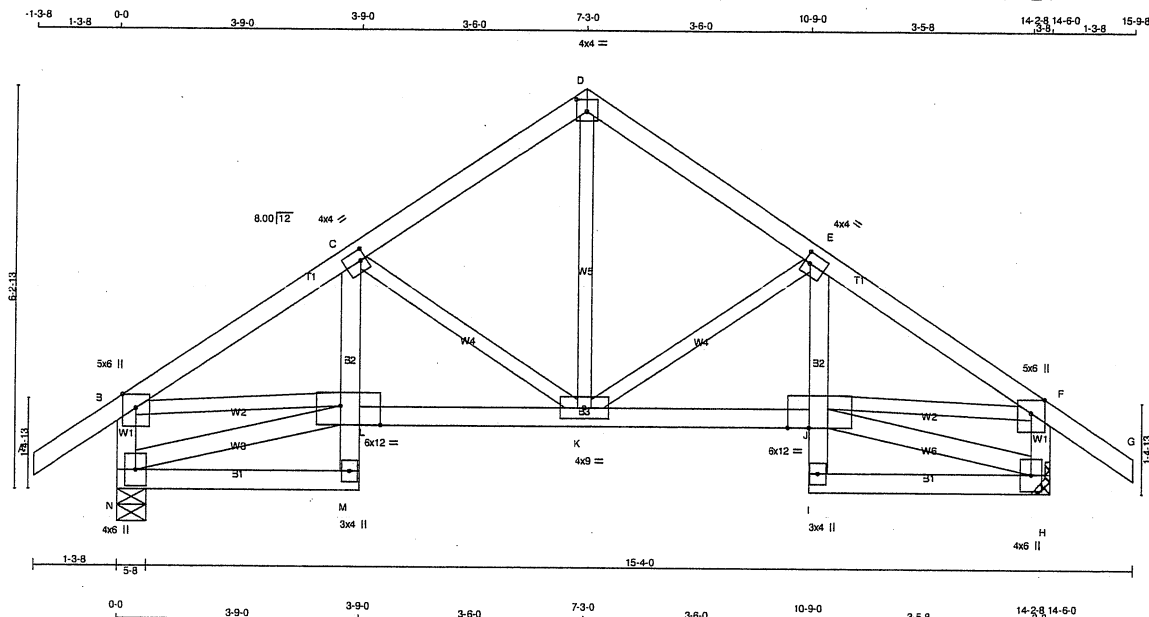


Structural component only
DWG# T-2115701

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T79S	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrD2xE89xtNtRz_BuP-a8NxmK2qZPl_vp8PKLNUTozufE1GQZ?4j6iJZzcV0q



TOTAL WEIGHT = 2 X 73 = 146 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	Edge	
C	TMVW-t	MT20	4.0	4.0	2.00	1.00
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMVW-t	MT20	4.0	4.0	2.00	1.00
F	TMVW+p	MT20	5.0	6.0	Edge	
H	BMVW1+p	MT20	4.0	6.0		
I	BMV+p	MT20	3.0	4.0		
J	BVMWV-t	MT20	6.0	12.0	4.00	
K	BVMWV-t	MT20	4.0	9.0		
L	BVMWV-t	MT20	6.0	12.0	3.50	7.50
M	BMV+p	MT20	3.0	4.0		
N	BMVW1+p	MT20	4.0	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
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
N	925	0	925	0
H	925	0	925	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
N	652	441/0	0/0
H	652	441/0	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 = 5.91 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	10.00	K-D	0/532 0.12 (1)	
B-C	-1079/0	-91.8	-91.8 0.15 (1)	5.91	K-E	-399/0 0.13 (1)	
C-D	-736/0	-91.8	-91.8 0.15 (1)	6.25	C-K	-399/0 0.13 (1)	
D-E	-736/0	-91.8	-91.8 0.15 (1)	6.25	N-L	-27/0 0.00 (1)	
E-F	-1079/0	-91.8	-91.8 0.15 (1)	5.91	B-L	0/915 0.21 (1)	
F-G	0/35	-91.8	-91.8 0.12 (1)	10.00	J-H	-27/0 0.00 (1)	
N-B	-885/0	0.0	0.0 0.09 (1)	7.81	J-F	0/915 0.21 (1)	
H-F	-885/0	0.0	0.0 0.09 (1)	7.81			
N-M	0/26	-18.5	-18.5 0.07 (4)	10.00			
M-L	0/37	0.0	0.0 0.04 (1)	10.00			
L-C	0/57	0.0	0.0 0.04 (1)	10.00			
L-K	0/925	-18.5	-18.5 0.19 (1)	10.00			
K-J	0/925	-18.5	-18.5 0.19 (1)	10.00			
I-J	0/37	0.0	0.0 0.04 (1)	10.00			
J-E	0/57	0.0	0.0 0.04 (1)	10.00			
I-H	0/26	-18.5	-18.5 0.07 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.48")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.48")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.15/1.00 (E-F:1), BC=0.19/1.00 (J-K:1), WB=0.21/1.00 (F-J:1), SS=0.13/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

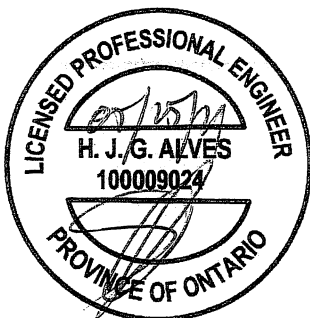
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (D) (INPUT = 0.90)
JSI METAL= 0.46 (F) (INPUT = 1.00)



Structural component only
DWG# T-2115702

Tamarack Roof Truss, Burlington



TOTAL WEIGHT = $2 \times 67 = 134$ lb

Structural component only
DWG# T-2115703 *11*

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

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

JOB NAME 411170	TRUSS NAME T80	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

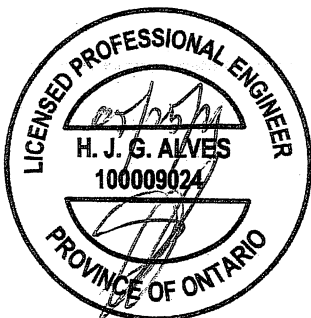
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:34 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TTWW+m	MT20	5.0	6.0	2.00	1.50
C	TMW+w	MT20	2.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BMV1+p	MT20	3.0	6.0		
F	BMWWW-t	MT20	5.0	8.0		
G	BMWW-t	MT20	5.0	6.0		
H	BMV1+p	MT20	3.0	6.0		

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

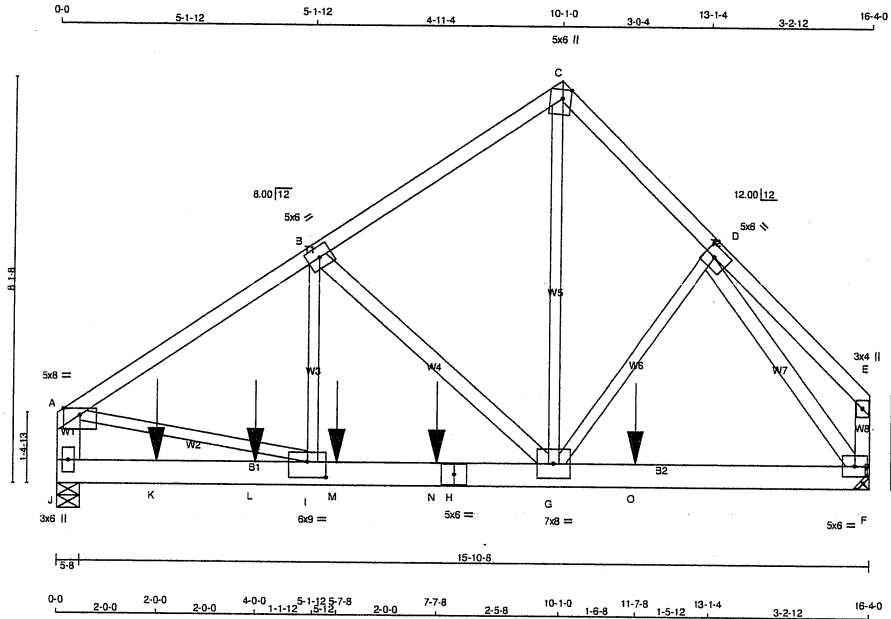
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.73 (D) (INPUT = 0.90)
JSI METAL= 0.19 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115703 *m*

JOB NAME 411170	TRUSS NAME T81	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:36 2021 Page 1
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TOTAL WEIGHT = 2 X 87 = 174 lb

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
J - A	2x6	DRY	No.2	SPF	
F - E	2x4	DRY	No.2	SPF	
J - H	2x6	DRY	No.2	SPF	
H - F	2x6	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
B - G	2x4	DRY	No.2	SPF	
D - F	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	12	TOP
C - E	12	TOP
F - E	12	TOP
J - A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J - H	12	SIDE (14.0)
H - F	12	SIDE (14.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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	JT	VERT	JT	VERT	JT	VERT
J	4606	0	4606	0	5-8	5-8	
F	3598	0	3598	0	0	0	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	3270	2072 / 0	0 / 0	0 / 0	0 / 0	1199 / 0	0 / 0
F	2564	1570 / 0	0 / 0	0 / 0	0 / 0	995 / 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 = 4.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	
FR-TO		FROM TO		FR-TO			
A-B	-4964 / 0	-91.8 -91.8	0.35 (1)	4.08	I-B	0 / 2144	0.27 (1)
B-C	-2967 / 0	-91.8 -91.8	0.24 (1)	5.11	B-G	-2309 / 0	0.64 (1)
C-D	-3413 / 0	-91.8 -91.8	0.12 (1)	4.97	G-C	0 / 3730	0.46 (1)
D-E	0 / 12	-91.8 -91.8	0.06 (1)	10.00	G-D	0 / 474	0.06 (1)
J-A	-3761 / 0	0.0 0.0	0.13 (1)	7.28	A-I	0 / 4229	0.52 (1)
F-E	-123 / 0	0.0 0.0	0.01 (1)	7.81	D-F	-3768 / 0	0.66 (1)
J-K	0 / 0	-43.5 -43.5	0.59 (1)	10.00			
K-L	0 / 0	-43.5 -43.5	0.59 (1)	10.00			
L-I	0 / 0	-43.5 -43.5	0.59 (1)	10.00			
I-M	0 / 4152	-43.5 -43.5	0.81 (1)	10.00			
M-N	0 / 4152	-43.5 -43.5	0.81 (1)	10.00			
N-H	0 / 4152	-43.5 -43.5	0.81 (1)	10.00			
H-G	0 / 4152	-43.5 -43.5	0.81 (1)	10.00			
G-O	0 / 2120	-43.5 -43.5	0.67 (1)	10.00			
O-F	0 / 2120	-43.5 -43.5	0.67 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
K	2-0-0	-287	-287	---	FRONT	VERT	DEAD	---	C1
K	2-0-0	-596	-596	---	FRONT	VERT	SNOW	---	C1
L	4-0-0	-198	-198	---	FRONT	VERT	DEAD	---	C1
L	4-0-0	-417	-417	---	FRONT	VERT	SNOW	---	C1
M	5-7-8	-198	-198	---	FRONT	VERT	DEAD	---	C1
M	5-7-8	-417	-417	---	FRONT	VERT	SNOW	---	C1
N	7-7-8	-287	-287	---	FRONT	VERT	DEAD	---	C1
N	7-7-8	-596	-596	---	FRONT	VERT	SNOW	---	C1
O	11-7-8	-32	-32	---	FRONT	VERT	DEAD	---	C1
O	11-7-8	-1070	-1070	---	FRONT	VERT	TOTAL	---	C1
O	11-7-8	-137	-137	---	FRONT	VERT	SNOW	---	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 ***

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 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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.35/1.00 (A-B:1), BC=0.81/1.00 (G-I:1),
WB=0.66/1.00 (D-F:1), SS=0.55/1.00 (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 HEELS OFF

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

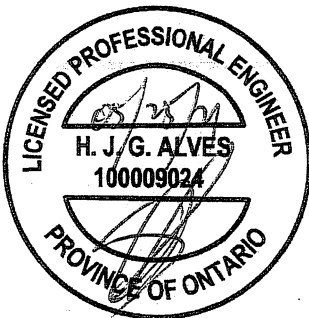
NAIL VALUES

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=0.76 (D) (INPUT = 0.90)
JSI METAL=0.47 (H) (INPUT = 1.00)



Structural component only
DWG# T-2115704

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	T81	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:36 2021 Page 2
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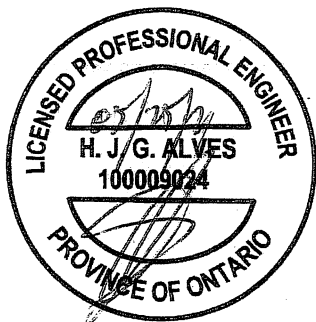
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	8.0	Edge	
B	TMWW-t	MT20	5.0	6.0		
C	TTW+m	MT20	5.0	6.0	Edge 2.00	
D	TMWW-t	MT20	5.0	6.0	2.50 2.50	
E	TMV+p	MT20	3.0	4.0		
F	BMVW1-t	MT20	5.0	6.0		
G	BMWWW-t	MT20	7.0	8.0		
H	BS-t	MT20	5.0	6.0		
I	BMWW-t	MT20	6.0	9.0	3.75 4.50	
J	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



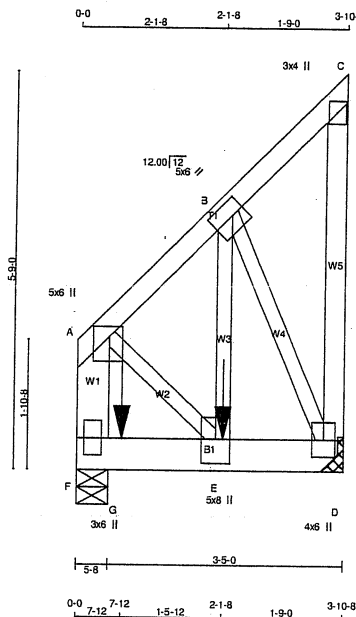
Structural component only
DWG# T-2115704 *ML*

JOB NAME 411170	TRUSS NAME T82	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

ID:GAonzd6DLBrd2xE89xtNtRz_BuP-TwdSV7nYuv7SW7weAQJeJyGGaWCCdb?K4wSKzCv0m

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Scale: 3/8"=1'



LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
F - A	2x6	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 SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A	2	12
A - C	1	12
C - D	1	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
B - E	1	2
2x3	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	6.0	1.75	2.75
B	TMVW-t	MT20	5.0	6.0	2.50	2.25
C	TMV+p	MT20	3.0	4.0		
D	BMVW1+p	MT20	4.0	6.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
F	2135	0	2135	0
D	2237	0	2237	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN.	COMPONENT REACTIONS	
	COMBINED	SNOW	LIVE	PERM. LIVE
F	1515	965 / 0	0 / 0	0 / 0
D	1592	991 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
F-A	-1664 / 0	0.0	0.0	0.06 (1)	7.81	E-B	0 / 2655
A-B	-1322 / 0	-91.8	-91.8	0.04 (1)	6.25	A-E	0 / 1134
B-C	-7 / 0	-91.8	-91.8	0.02 (1)	10.00	B-D	-2131 / 0
D-C	-70 / 0	0.0	0.0	0.02 (1)	7.81		
F-G	0 / 0	-18.5	-18.5	0.15 (1)	10.00		
G-E	0 / 0	-18.5	-18.5	0.15 (1)	10.00		
E-D	0 / 939	-18.5	-18.5	0.21 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-1-8	-2550	-2550	--	BACK	VERT	TOTAL	--	C1
G	7-12	-255	-255	--	TOP	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

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

CSI: TC=0.06/1.00 (A-F:1), BC=0.21/1.00 (D-E:1), WB=0.33/1.00 (B-E:1), SS=0.16/1.00 (E-F: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.

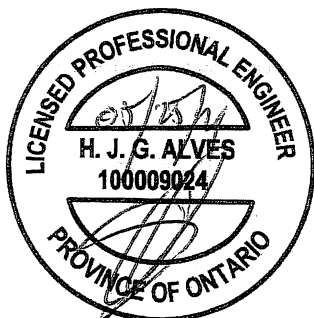
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (E) (INPUT = 0.90)
JSI METAL= 0.48 (E) (INPUT = 1.00)



Structural component only
DWG# T-2115705

CONTINUED ON PAGE 2

JOB NAME 411170	TRUSS NAME T82	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

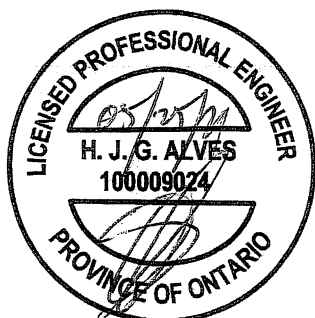
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:37 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-TwdSV7nYuoV7SW7weAQJeJyGGGaWCCdb?K4wSKzCv0m

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
E	BMWV+t	MT20	5.0	8.0	4.25	2.50
F	BMV1+p	MT20	3.0	6.0		

NOTES- (1)

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

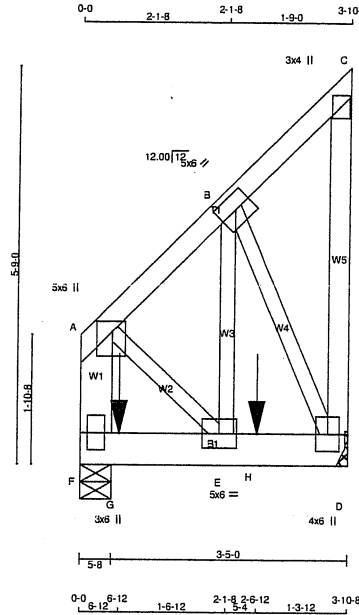


Structural component only
DWG# T-2115705 9/2

JOB NAME 411170	TRUSS NAME T82Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-x6BqjToAf61_4gi6CbYBXVSbgx1xjMkE_qT_nzCv0l



Scale: 3/8"=1'

TOTAL WEIGHT = 2 X 29 = 58 lb [M]

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
F - A	2x6 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 SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A 2	12	SIDE(54.5)
A - C 1	12	TOP
C - D 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF 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	5.0	6.0	1.75 2.75
B	TMVW-t	MT20	5.0	6.0	
C	TMV+p	MT20	3.0	4.0	
D	BMVW1+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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT REQD	
	VERT	HORZ	DOWN	HORZ	BRG	IN-SX
F	1299	0	1299	0	5-8	5-8
D	946	0	946	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	MAX./MIN. COMPONENT REACTIONS						
	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	914	626 / 0	0 / 0	0 / 0	0 / 0	289 / 0	0 / 0
D	666	455 / 0	0 / 0	0 / 0	0 / 0	210 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CS1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)	
FR-TO		FROM	TO			FR-TO			
F-A	-654 / 0	0.0	0.0	0.03 (1)	7.81	E-B	0 / 823	0.10 (1)	
A-B	-471 / 0	-91.8	-91.8	0.03 (1)	6.25	A-E	0 / 412	0.05 (1)	
B-C	-14 / 0	-91.8	-91.8	0.03 (1)	6.25	B-D	-775 / 0	0.11 (1)	
D-C	-61 / 0	0.0	0.0	0.02 (1)	7.81				
F-G	0 / 0	-18.5	-18.5	0.13 (1)	10.00				
G-E	0 / 0	-18.5	-18.5	0.13 (1)	10.00				
E-H	0 / 341	-18.5	-18.5	0.11 (1)	10.00				
H-D	0 / 341	-18.5	-18.5	0.11 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	6-12	-640	-640	---	FRONT	VERT	TOTAL	---	C1
H	2-6-12	-637	-637	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 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 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 (0.19")
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=0.03/1.00 (A-B:1), BC=0.13/1.00 (E-F:1), WB=0.11/1.00 (B-D:1), SSI=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	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= 0.38 (B) (INPUT = 0.90)
JSI METAL= 0.11 (F) (INPUT = 1.00)



Structural component only
DWG# T-2115706

CONTINUED ON PAGE 2

JOB NAME 411170	TRUSS NAME T82Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:38 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-x6BqjToAf61 4qi6CbYBXVSbgx1xiMKE qT nzCv0

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

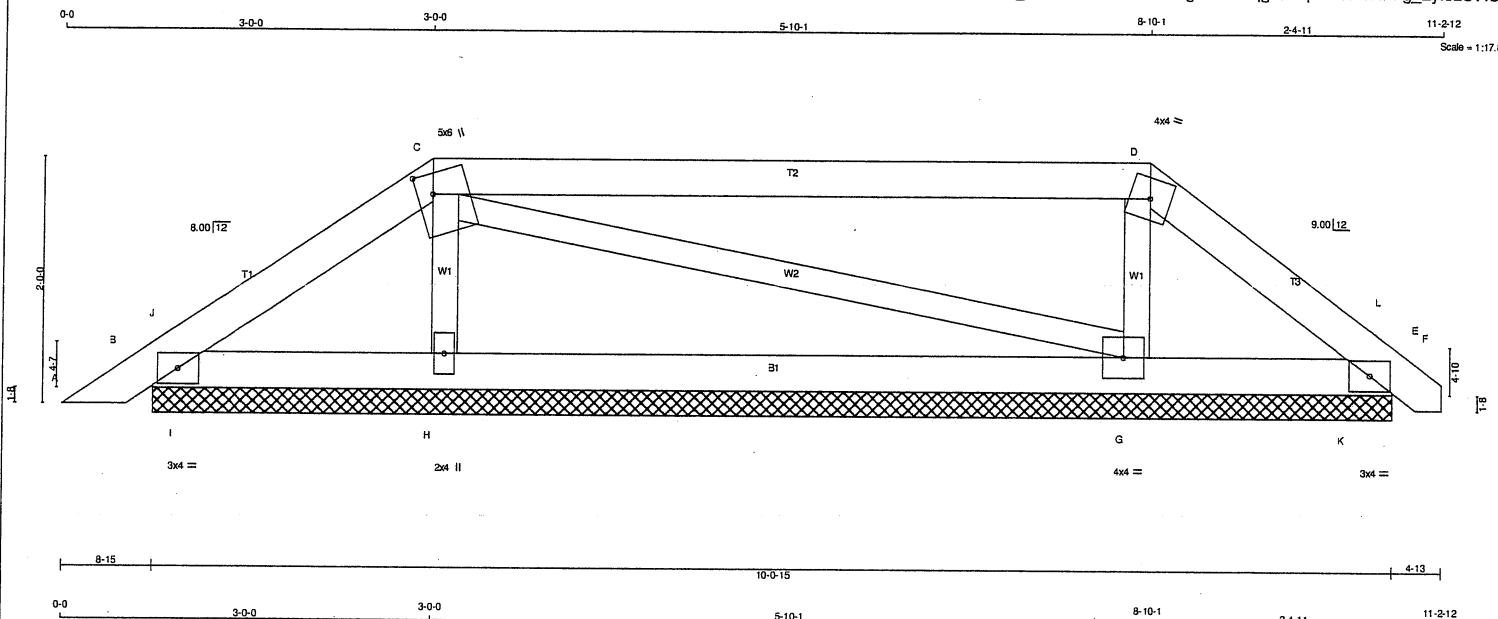


Structural component only
DWG# T-2115706 *HL*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	PB1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:42:00 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-SDMWAWnBPKgAdbav4qgQkLqdoAJPYNhFg_ZylezCvvb



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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMB1-t	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-t	MT20	3.0	4.0
G	BMWW1-t	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

JT	GROSS REACTION		FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	212	0	212	0	10-0-15	10-0-15
E	169	0	169	0	10-0-15	10-0-15
H	417	0	417	0	10-0-15	10-0-15
G	412	0	412	0	10-0-15	10-0-15

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	146	117 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0
E	116	96 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
H	297	181 / 0	0 / 0	0 / 0	0 / 0	116 / 0	0 / 0
G	294	178 / 0	0 / 0	0 / 0	0 / 0	116 / 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM . TO		FR-TO			
A-B	0 / 15	-91.8 -91.8 0.03 (1)	10.00	H-C	-304 / 0	0.04 (1)	
B-J	-52 / 0	-91.8 -91.8 0.02 (1)	6.25	C-G	-12 / 0	0.01 (1)	
J-C	-82 / 0	-91.8 -91.8 0.05 (1)	6.25	G-D	-299 / 0	0.04 (1)	
C-D	-32 / 0	-91.8 -91.8 0.53 (1)	6.25	I-J	-150 / 0	0.00 (1)	
D-L	-71 / 0	-91.8 -91.8 0.04 (1)	6.25	K-L	-141 / 0	0.00 (1)	
L-E	-36 / 9	-91.8 -91.8 0.02 (1)	6.25				
E-F	0 / 10	-91.8 -91.8 0.01 (1)	10.00				
B-I	0 / 64	-18.5 -18.5 0.06 (1)	10.00				
I-H	0 / 64	-18.5 -18.5 0.10 (4)	10.00				
H-G	0 / 44	-18.5 -18.5 0.10 (4)	10.00				
G-K	0 / 52	-18.5 -18.5 0.10 (4)	10.00				
K-E	0 / 52	-18.5 -18.5 0.05 (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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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=0.53/1.00 (C-D-1), BC=0.10/1.00 (H-I-4), WB=0.04/1.00 (C-H-1), SSI=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)	
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= 0.22 (D) (INPUT = 0.90)
JSI METAL= 0.06 (H) (INPUT = 1.00)

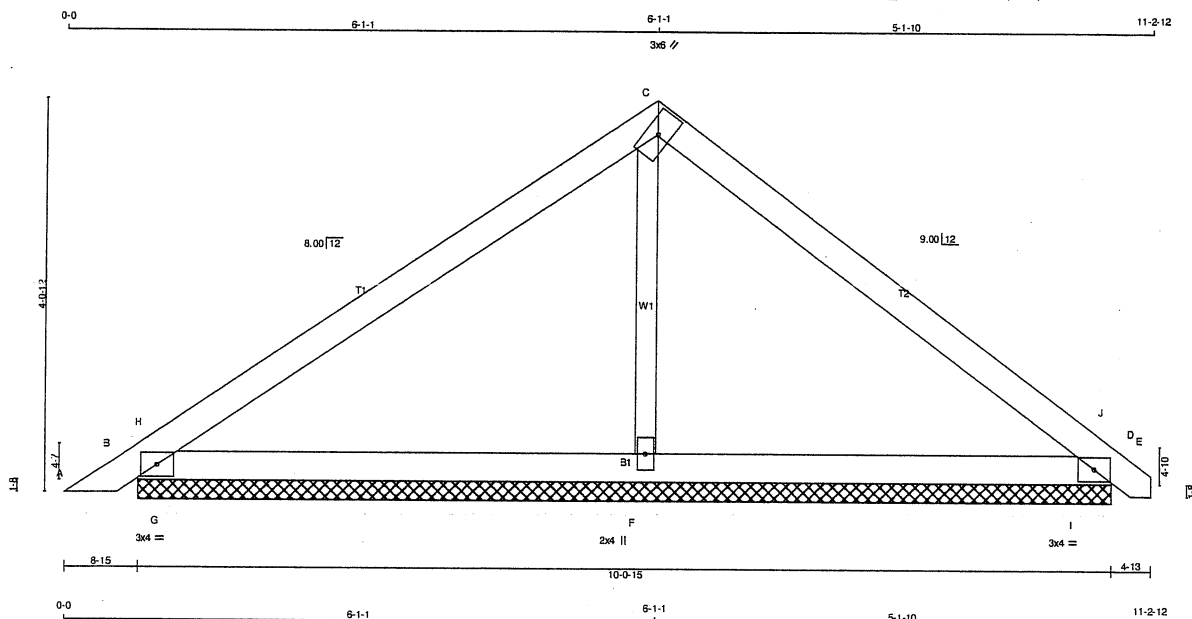


Structural component only
DWG# T-2115620

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	PB2	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-wPwuOrnpAep1Fk96eYBfHZMrsaceHq5PveJVq4zCvva



TOTAL WEIGHT = 30 lb

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	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	TTW+h	MT20	3.0	6.0	
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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT	REQD
JT	VERT	HORZ	DOWN	BRG	BRG
B	438	0	438	0	10-0-15
D	400	0	400	0	10-0-15
F	372	0	372	0	10-0-15

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	307	218 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0
D	280	199 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
F	267	155 / 0	0 / 0	0 / 0	0 / 0	112 / 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				WEBS				
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. FACTORED VERT. LOAD (LC1) (PLF)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (LC1) (PLF)	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 15	-91.8	-91.8	0.03 (1)	10.00	F-C	-148 / 0	0.03 (1)
B-H	-41 / 51	-91.8	-91.8	0.18 (1)	6.25	G-H	-662 / 0	0.00 (1)
H-C	-214 / 0	-91.8	-91.8	0.32 (1)	6.25	I-J	-596 / 0	0.00 (1)
C-J	-228 / 0	-91.8	-91.8	0.25 (1)	6.25			
J-D	-41 / 34	-91.8	-91.8	0.15 (1)	6.25			
D-E	0 / 10	-91.8	-91.8	0.01 (1)	10.00			
B-G	0 / 167	-18.5	-18.5	0.29 (1)	10.00			
G-F	0 / 167	-18.5	-18.5	0.29 (1)	10.00			
F-I	0 / 171	-18.5	-18.5	0.24 (1)	10.00			
I-D	0 / 171	-18.5	-18.5	0.24 (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=0.32/1.00 (C-H:1), BC=0.29/1.00 (B-G:1), WB=0.03/1.00 (C-F:1), SSI=0.50/1.00 (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.

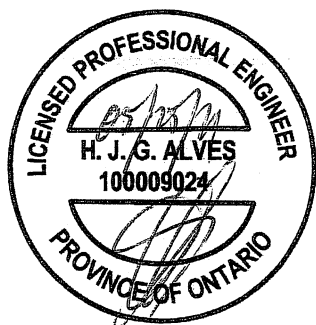
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

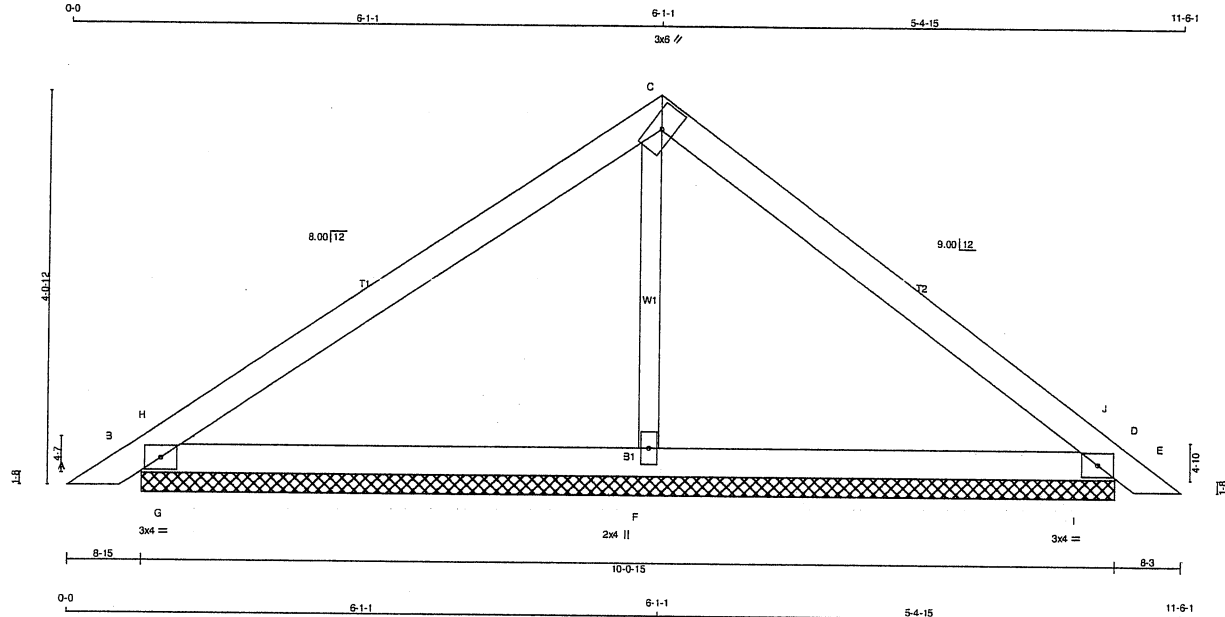
JSI GRIP = 0.37 (B) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115621

JOB NAME 411168	TRUSS NAME PB3	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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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	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	TTW+h	MT20	3.0	6.0	
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
B	438	0	438	0	10-0-15
D	416	0	416	0	10-0-15
F	372	0	372	0	10-0-15

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	307	218 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0
D	292	208 / 0	0 / 0	0 / 0	0 / 0	84 / 0	0 / 0
F	267	155 / 0	0 / 0	0 / 0	0 / 0	112 / 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				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	F-C	-148 / 0	0.03 (1)
B-H	-41 / 51	-91.8	-91.8 0.18 (1)	6.25	G-H	-662 / 0	0.00 (1)
H-C	-214 / 0	-91.8	-91.8 0.32 (1)	6.25	I-J	-596 / 0	0.00 (1)
C-J	-228 / 0	-91.8	-91.8 0.25 (1)	6.25			
J-D	-41 / 34	-91.8	-91.8 0.15 (1)	6.25			
D-E	0 / 15	-91.8	-91.8 0.02 (1)	10.00			
B-G	0 / 167	-18.5	-18.5 0.29 (1)	10.00			
G-F	0 / 167	-18.5	-18.5 0.29 (1)	10.00			
F-I	0 / 171	-18.5	-18.5 0.24 (1)	10.00			
I-D	0 / 171	-18.5	-18.5 0.24 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.32/1.00 (C-H:1), BC=0.29/1.00 (F-G:1), WB=0.03/1.00 (C-F:1), SS=0.50/1.00 (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 (PSI)	SECTION (PL)
MAX	MIN	MAX
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.37 (B) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)

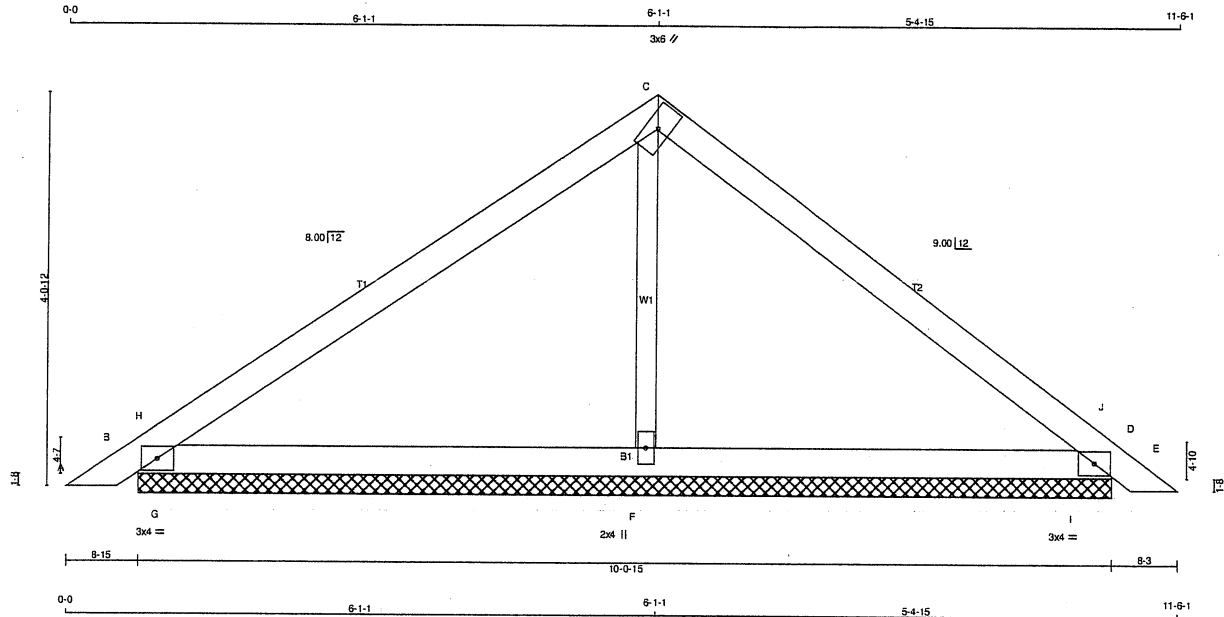


Structural component only
DWG# T-2115622

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	PB3Z	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 4 X 30 = 121 lb

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

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 - E	1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS			
B - D	1	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS			
2x3	1	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
B	TMB1+I	MT20	3.0	4.0		
C	TTW+h	MT20	3.0	6.0		
D	TMB1+I	MT20	3.0	4.0		
F	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	REQRD BRG
	VERT	HORZ	IN-SX	IN-SX
B	439	0	10-0-15	10-0-15
D	417	0	10-0-15	10-0-15
F	371	0	10-0-15	10-0-15

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	307	218 / 0	0 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0
D	292	208 / 0	0 / 0	0 / 0	0 / 0	0 / 0	84 / 0	0 / 0
F	266	154 / 0	0 / 0	0 / 0	0 / 0	0 / 0	112 / 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. PURLINE SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX	CS1 (LC)	
FR-TO		FROM TO			FR-TO				
A-B	0 / 15	-91.8	-91.8	0.01 (1)	10.00	F-C	-147 / 0	0.02 (1)	
B-H	-41 / 47	-91.8	-91.8	0.09 (1)	6.25	G-H	-657 / 0	0.00 (1)	
H-C	-215 / 0	-91.8	-91.8	0.16 (1)	6.25	I-J	-590 / 0	0.00 (1)	
C-J	-229 / 0	-91.8	-91.8	0.12 (1)	6.25				
J-D	-42 / 29	-91.8	-91.8	0.07 (1)	6.25				
D-E	0 / 15	-91.8	-91.8	0.01 (1)	10.00				
B-G	0 / 168	-18.5	-18.5	0.15 (1)	10.00				
G-F	0 / 168	-18.5	-18.5	0.15 (1)	10.00				
F-I	0 / 172	-18.5	-18.5	0.12 (1)	10.00				
I-D	0 / 172	-18.5	-18.5	0.12 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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=0.16/1.00 (C-H:1), BC=0.15/1.00 (B-G:1), WB=0.02/1.00 (C-F:1), SSI=0.25/1.00 (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.

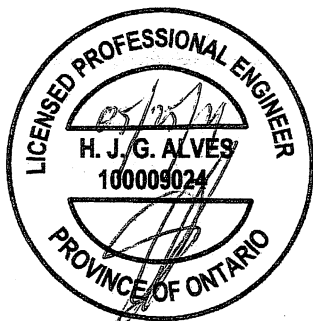
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (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 = 0.19 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)

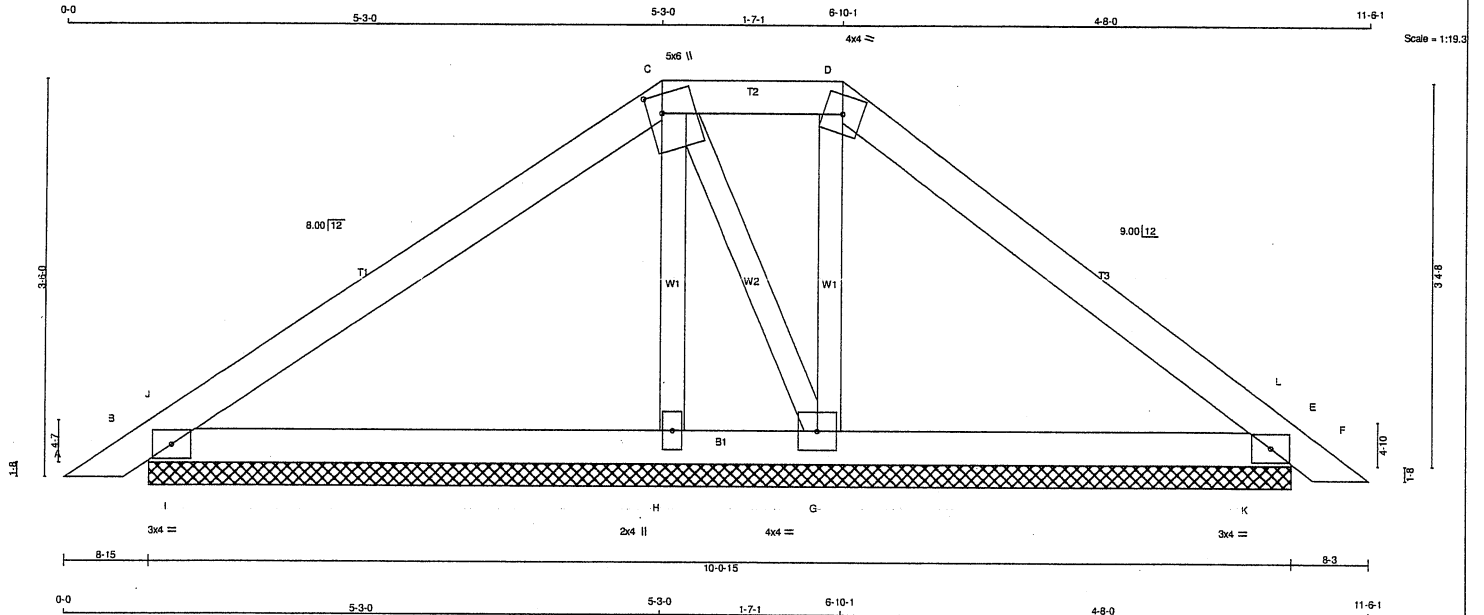


Structural component only
DWG# T-2115623

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	PB4	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-so2epXp4iF3IU2JumzD7M_SDmNIXkfiMyocvzzCwY



TOTAL WEIGHT = 34 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTWW+m	MT20	5.0	6.0	2.00 1.50
D	TTW-m	MT20	4.0	4.0	
E	TMB1-I	MT20	3.0	4.0	
G	BMWW1-t	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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	382	0	382	0	10-0-15	10-0-15
E	342	0	342	0	10-0-15	10-0-15
H	222	0	222	0	10-0-15	10-0-15
G	281	0	281	0	10-0-15	10-0-15

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	268	189 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
E	240	167 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
H	160	90 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0
G	198	134 / 0	0 / 0	0 / 0	0 / 0	63 / 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				
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE	VERT. LOAD	MAX	MAX.	MEMB.	FORCE	MAX	
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 15	-91.8	-91.8	0.03 (1)	10.00	H-C	-101 / 0	0.02 (1)
B-J	-49 / 0	-91.8	-91.8	0.10 (1)	6.25	C-G	-66 / 0	0.01 (1)
J-C	-168 / 0	-91.8	-91.8	0.23 (1)	6.25	G-D	-149 / 0	0.03 (1)
C-D	-100 / 0	-91.8	-91.8	0.04 (1)	6.25	I-J	-443 / 0	0.00 (1)
D-L	-140 / 0	-91.8	-91.8	0.18 (1)	6.25	K-L	-388 / 0	0.00 (1)
L-E	-46 / 1	-91.8	-91.8	0.08 (1)	6.25			
E-F	0 / 15	-91.8	-91.8	0.02 (1)	10.00			
B-I	0 / 132	-18.5	-18.5	0.20 (1)	10.00			
I-H	0 / 132	-18.5	-18.5	0.20 (1)	10.00			
H-G	0 / 128	-18.5	-18.5	0.13 (1)	10.00			
G-K	0 / 105	-18.5	-18.5	0.16 (1)	10.00			
K-E	0 / 105	-18.5	-18.5	0.16 (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 6.00/12

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=0.23/1.00 (C-J:1), BC=0.20/1.00 (B-I:1), WB=0.03/1.00 (D-G:1), SSI=0.34/1.00 (B-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

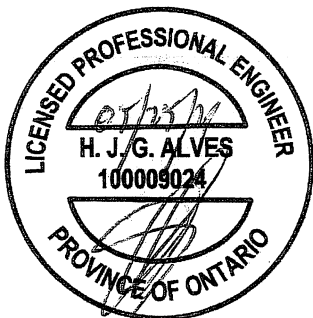
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (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= 0.31 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115624

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xNtRz_BuP-L_b10tqITZBc6CuhJgkMvB_Ownh7UBSrbCXPAPzCvvX

Scale = 1:18

0-0 2-3-0 2-3-0 3-7-8 5-10-8 3-7-8 9-6-1 2-0-0 11-6-1

8.00 [12] 9.00 [12]

1.8 1.8 4.10 4.10

0-0 2-3-0 2-3-0 3-7-8 5-10-8 3-7-8 9-6-1 2-0-0 11-6-1

8-15 10-0-15 8-3

0-0 2-3-0 2-3-0 3-7-8 5-10-8 3-7-8 9-6-1 2-0-0 11-6-1

TOTAL WEIGHT = 33 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER DESCR.

A - C 2x4 DRY No.2 SPF

C - E 2x4 DRY No.2 SPF

E - G 2x4 DRY No.2 SPF

B - F 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

B TMB1-I MT20 3.0 4.0

C TTWW+m MT20 5.0 6.0 2.00 1.50

D TMW+w MT20 2.0 4.0

E TTWW+m MT20 5.0 6.0 2.25 1.50

F TMB1-I MT20 3.0 4.0

H BMW1+w MT20 2.0 4.0

I BMWVW1-t 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

BEARINGS

FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQRD

JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX

B 156 0 156 0 0 10-0-15 10-0-15

F 141 0 141 0 0 10-0-15 10-0-15

J 226 0 226 0 0 10-0-15 10-0-15

I 489 0 489 0 0 10-0-15 10-0-15

H 214 0 214 0 0 10-0-15 10-0-15

UNFACTORED REACTIONS

1ST LCASE MAX/MIN. COMPONENT REACTIONS

JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL

B 108 84 / 0 0 / 0 0 / 0 24 / 0 0 / 0

F 98 77 / 0 0 / 0 0 / 0 20 / 0 0 / 0

J 161 95 / 0 0 / 0 0 / 0 66 / 0 0 / 0

I 345 234 / 0 0 / 0 0 / 0 110 / 0 0 / 0

H 153 89 / 0 0 / 0 0 / 0 64 / 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 MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (LBS) FROM TO MAX. CSF (LC) UNBRAC LENGTH FR-TO W E B S MEMB. MAX. FACTORED FORCE (LBS) MAX. CSF (LC)

FR-TO A-B 0 / 15 -91.8 -91.8 0.03 (1) 10.00 J-C -154 / 0 0.02 (1)

B-L -36 / 0 -91.8 -91.8 0.00 (1) 6.25 C-I -13 / 0 0.00 (1)

L-C -38 / 0 -91.8 -91.8 0.02 (1) 6.25 I-D -416 / 0 0.06 (1)

C-D -3 / 0 -91.8 -91.8 0.20 (1) 10.00 I-E -13 / 0 0.00 (1)

D-E -3 / 0 -91.8 -91.8 0.20 (1) 10.00 H-E -144 / 0 0.02 (1)

E-N -39 / 0 -91.8 -91.8 0.02 (1) 6.25 K-L -73 / 0 0.00 (1)

N-F -34 / 0 -91.8 -91.8 0.00 (1) 6.25 M-N -68 / 0 0.00 (1)

F-G 0 / 15 -91.8 -91.8 0.02 (1) 10.00

B-K 0 / 31 -18.5 -18.5 0.03 (1) 10.00

K-J 0 / 31 -18.5 -18.5 0.04 (4) 10.00

J-I 0 / 16 -18.5 -18.5 0.05 (4) 10.00

I-H 0 / 16 -18.5 -18.5 0.05 (4) 10.00

H-M 0 / 30 -18.5 -18.5 0.04 (4) 10.00

M-F 0 / 30 -18.5 -18.5 0.02 (1) 10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

CSI: TC=0.20/1.00 (C-D:1), BC=0.05/1.00 (I-J:4), WB=0.06/1.00 (D-I:1), SS=0.16/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

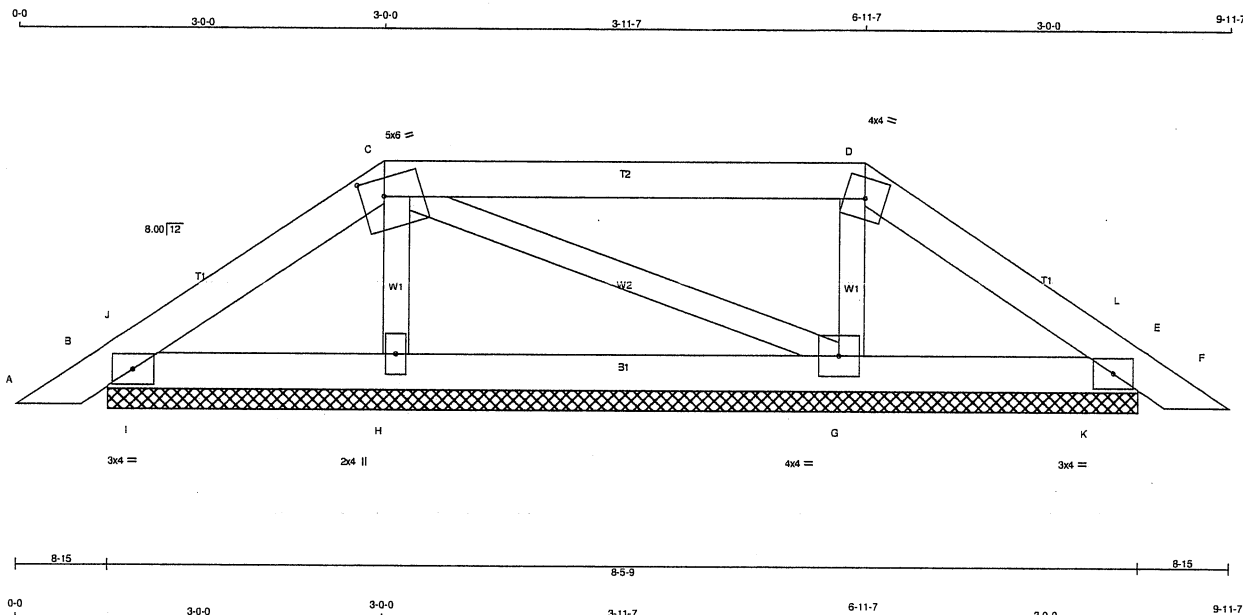
JSI GRIP= 0.21 (D) (INPUT = 0.90)
JSI METAL= 0.09 (D) (INPUT = 1.00)

PROFESSIONAL ENGINEER
H. J. G. ALVES
100009824
PROVINCE OF ONTARIO

Structural component only
DWG# T-2115625

JOB NAME 411168	TRUSS NAME PB6	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-pA9PDDqKESJtJMTtNfBRPxbzB1hDeL?qGHjzrzCvvW



TOTAL WEIGHT = 2 X 28 = 55 lb [M]

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

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
D - F	1 12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B - E	1 12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1 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
B	TMB1-I	MT20	3.0	4.0	
C	TTWW-m	MT20	5.0	6.0	1.75 2.25
D	TTW-m	MT20	4.0	4.0	
E	TMB1-I	MT20	3.0	4.0	
G	BMW1-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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
B		219	0	219	0	8-5-9	8-5-9	8-5-9	8-5-9
E		209	0	209	0	8-5-9	8-5-9	8-5-9	8-5-9
H		301	0	301	0	8-5-9	8-5-9	8-5-9	8-5-9
G		325	0	325	0	8-5-9	8-5-9	8-5-9	8-5-9

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	153	114 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0
E	146	109 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
H	215	132 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
G	231	146 / 0	0 / 0	0 / 0	0 / 0	85 / 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. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 15	-91.8 -91.8	0.01 (1)	10.00	H-C	-219 / 0	0.02 (1)
B-J	-63 / 0	-91.8 -91.8	0.01 (1)	6.25	C-G	-17 / 0	0.00 (1)
J-C	-77 / 0	-91.8 -91.8	0.03 (1)	6.25	G-D	-236 / 0	0.02 (1)
C-D	-31 / 0	-91.8 -91.8	0.12 (1)	6.25	I-J	-125 / 0	0.00 (1)
D-L	-59 / 0	-91.8 -91.8	0.03 (1)	6.25	K-L	-127 / 0	0.00 (1)
L-E	-44 / 0	-91.8 -91.8	0.01 (1)	6.25			
E-F	0 / 15	-91.8 -91.8	0.01 (1)	10.00			
B-I	0 / 62	-18.5 -18.5	0.03 (1)	10.00			
I-H	0 / 62	-18.5 -18.5	0.03 (1)	10.00			
H-G	0 / 47	-18.5 -18.5	0.02 (4)	10.00			
G-K	0 / 47	-18.5 -18.5	0.03 (1)	10.00			
K-E	0 / 47	-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/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.12/1.00 (C-D:1), BC=0.03/1.00 (B-I:1), WB=0.02/1.00 (D-G: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 (PSI)	SECTION (PLI)
MAX	MIN	MAX
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

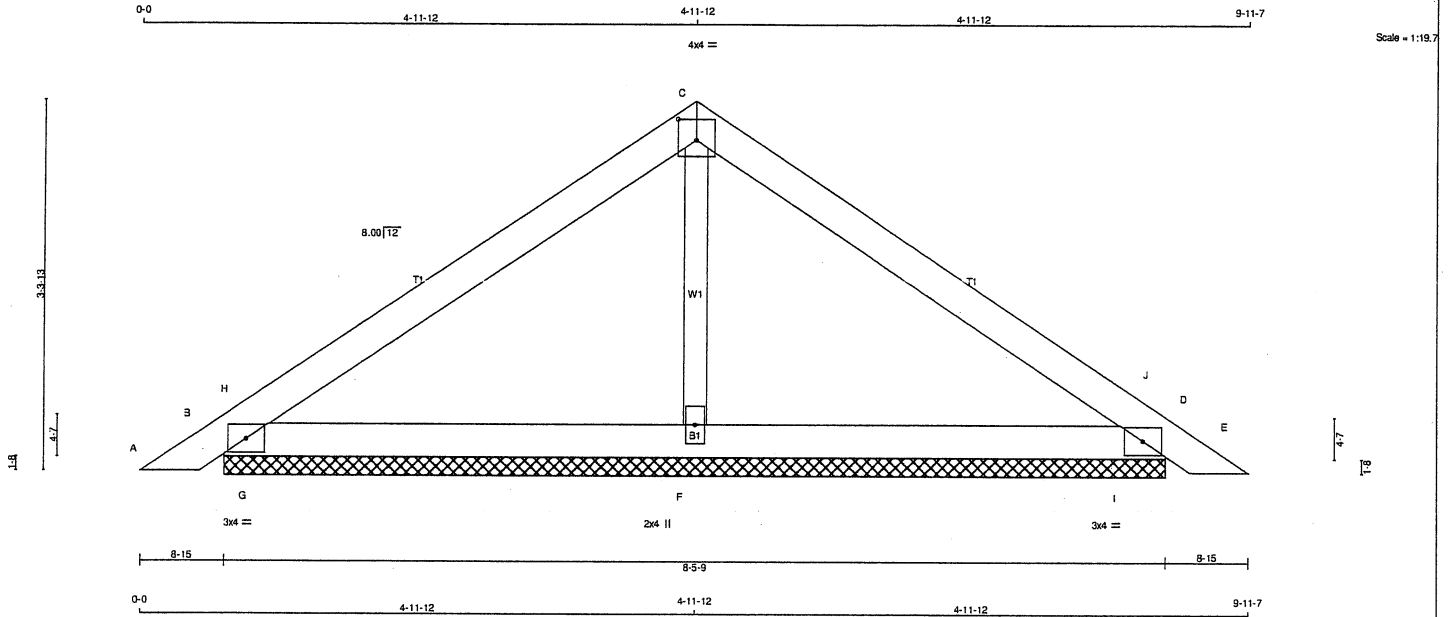
JSI GRIP= 0.09 (B) (INPUT = 0.90)
JSI METAL= 0.02 (H) (INPUT = 1.00)



Structural component only
DWG# T-2115626

JOB NAME 411168	TRUSS NAME PB7	QUANTITY 4	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-HNjnRZry?ARKLW23R5mq_c4jZbLQy5Q82w0GWizCvvV



TOTAL WEIGHT = 4 X 25 = 101 lb [M]

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	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	TTW-p	MT20	4.0	4.0	2.25 2.00
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		REQRD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG	BRG
B	354	0	354	0	0	8-5-9	8-5-9	71 / 0	0 / 0
D	354	0	354	0	0	8-5-9	8-5-9	71 / 0	0 / 0
F	347	0	347	0	0	8-5-9	8-5-9	101 / 0	0 / 0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
B	248	177 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0	
D	248	177 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0	
F	248	148 / 0	0 / 0	0 / 0	0 / 0	101 / 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		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 15	-91.8	-91.8 0.03 (1)	F-C	-157 / 0
B-H	-35 / 0	-91.8	-91.8 0.10 (1)	G-H	-429 / 0
H-C	-160 / 0	-91.8	-91.8 0.20 (1)	I-J	-429 / 0
C-J	-160 / 0	-91.8	-91.8 0.20 (1)		
J-D	-35 / 0	-91.8	-91.8 0.10 (1)		
D-E	0 / 15	-91.8	-91.8 0.03 (1)		
B-G	0 / 125	-18.5	-18.5 0.19 (1)		
G-F	0 / 125	-18.5	-18.5 0.19 (1)		
F-I	0 / 125	-18.5	-18.5 0.19 (1)		
I-D	0 / 125	-18.5	-18.5 0.19 (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

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=0.20/1.00 (C-J:1), BC=0.19/1.00 (D-I:1), WB=0.03/1.00 (C-F:1), SSI=0.32/1.00 (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)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

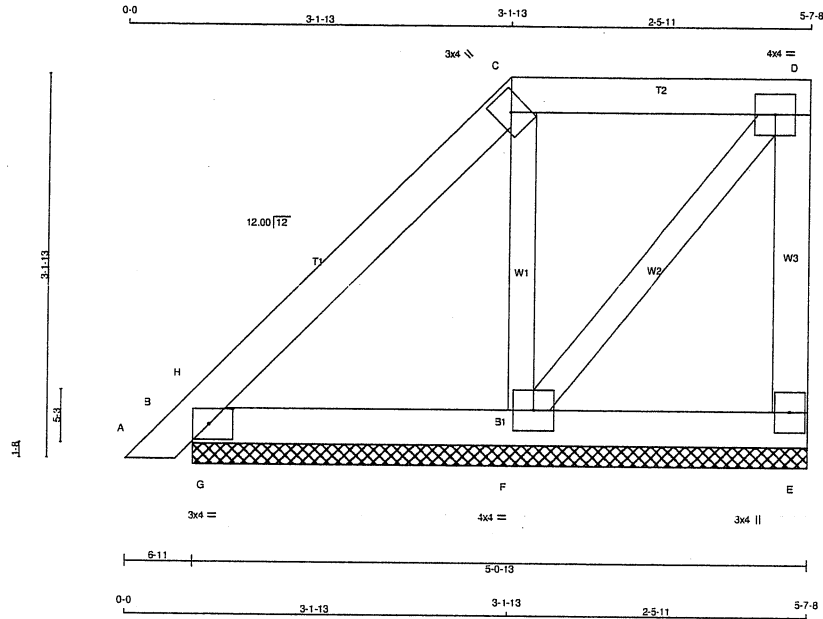
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115627

JOB NAME 411169	TRUSS NAME PB50	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Tue May 25 16:55:10 2021 Page 1 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-KC5A_eKkM2C4P?_IMlrhlxYI0dyHeghXKuxm1rzCvjF	



TOTAL WEIGHT = 2 X 21 = 42 lb
[M]

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF
A - C	2x4	DRY	No.2	SPF	SPF
C - D	2x4	DRY	No.2	SPF	SPF
E - D	2x4	DRY	No.2	SPF	SPF
B - E	2x4	DRY	No.2	SPF	SPF
ALL WEBS	2x3	DRY	No.2	SPF	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
D - E 1 12		TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B - E 1 12		TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1 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
B TMB1-t	MT20	3.0	4.0	1.50	2.50
C TTW-h	MT20	3.0	4.0		
D TMVW-t	MT20	4.0	4.0		
E BMV1+p	MT20	3.0	4.0		
F BMWW1-t	MT20	4.0	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	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
E	153	0	153	0	5-0-13	5-0-13
B	210	0	210	0	5-0-13	5-0-13
F	237	0	237	0	5-0-13	5-0-13

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
	SNOW	LIVE	SNOW	LIVE				
E	107	75 / 0	0 / 0	0 / 0	0 / 0	0 / 0	32 / 0	0 / 0
B	147	105 / 0	0 / 0	0 / 0	0 / 0	0 / 0	42 / 0	0 / 0
F	169	102 / 0	0 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, B, 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				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	0 / 13	-91.8	-91.8	0.01 (1)	10.00	F-C	-181 / 0	0.02 (1)
B-H	-11 / 36	-91.8	-91.8	0.02 (1)	6.25	F-D	0 / 39	0.00 (1)
H-C	-53 / 0	-91.8	-91.8	0.04 (1)	6.25	G-H	-229 / 0	0.00 (1)
C-D	-26 / 0	-91.8	-91.8	0.05 (1)	6.25			
E-D	-143 / 0	0.0	0.0	0.01 (1)	7.81			
B-G	0 / 33	-18.5	-18.5	0.03 (1)	10.00			
G-F	0 / 33	-18.5	-18.5	0.03 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

CSI: TC=0.05/1.00 (C-D:1), BC=0.03/1.00 (B-G:1), WB=0.02/1.00 (C-F:1), SSI=0.09/1.00 (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.

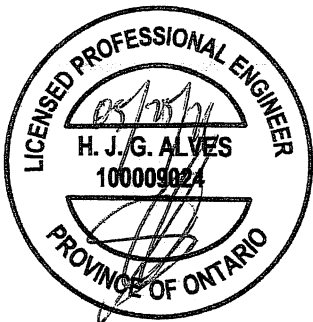
NAIL VALUES

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.

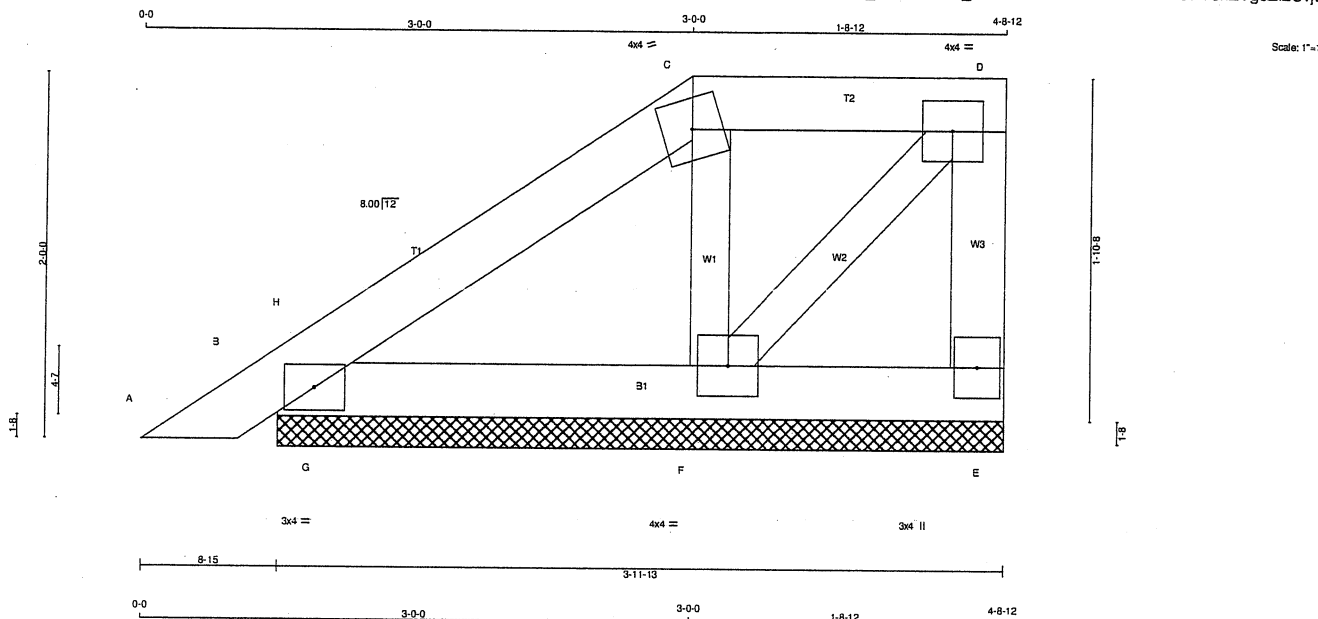
JSI GRIP= 0.16 (C) (INPUT = 0.90)
JSI METAL= 0.02 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115667

JOB NAME 411169	TRUSS NAME PB51	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:GAonzd6DLBrD2xE89xtNtRz_BuP-oOfYB_LM7MLx08YxwSMwI94wf11CN7shZYgJZlZCvjE



TOTAL WEIGHT = 15 lb [M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
E - D	2x4	DRY	No.2
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	TTW-m	MT20	4.0	4.0	
D	TMVW-t	MT20	4.0	4.0	
E	BMV1+p	MT20	3.0	4.0	
F	BMWW1-t	MT20	4.0	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	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
E	93	0	93	0	0
B	194	0	194	0	0
F	213	0	213	0	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	DEAD	SOIL
E	65	46 / 0	0 / 0	20 / 0	0 / 0
B	135	97 / 0	0 / 0	38 / 0	0 / 0
F	152	95 / 0	0 / 0	57 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, B, 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	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	F-C	-151 / 0	0.02 (1)
B-H	-15 / 0	-91.8	-91.8 0.01 (1)	6.25	F-D	0 / 17	0.00 (1)
H-C	-29 / 0	-91.8	-91.8 0.05 (1)	6.25	G-H	-126 / 0	0.00 (1)
C-D	-12 / 0	-91.8	-91.8 0.05 (1)	6.25			
E-D	-91 / 0	0.0	0.0 0.01 (1)	7.81			
B-G	0 / 22	-18.5	-18.5 0.05 (1)	10.00			
G-F	0 / 22	-18.5	-18.5 0.05 (1)	10.00			
F-E	0 / 0	-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

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.05/1.00 (C-H:1), BC=0.05/1.00 (B-G:1), WB=0.02/1.00 (C-F:1), SSL=0.10/1.00 (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)	(PLI)
MAX	MIN	MAX	MIN
MT20	650	371	1747
		788	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90)
JSI METAL= 0.04 (C) (INPUT = 1.00)

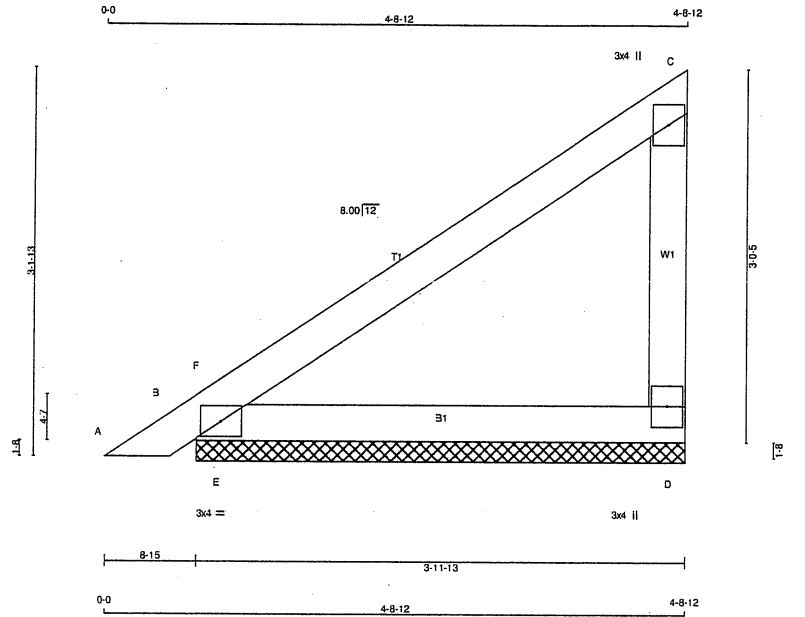


Structural component only
DWG# T-2115668

JOB NAME 411169	TRUSS NAME PB52	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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Scale = 1:17.6

TOTAL WEIGHT = 14 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4 DRY	No.2	SPF
D - C	2x4 DRY	No.2	SPF
B - D	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	TMV+p	MT20	3.0	4.0
D	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	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
D	220	0	220	0	3-11-13	3-11-13
B	280	0	280	0	3-11-13	3-11-13

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
D	155	102 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0
B	197	136 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0

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

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. CS (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 15	-91.8	-91.8 0.03 (1)	10.00	E-F	-312 / 1	0.00 (1)
B-F	-21 / 76	-91.8	-91.8 0.06 (1)	6.25			
F-C	-5 / 1	-91.8	-91.8 0.19 (1)	10.00			
D-C	-159 / 0	0.0	0.0 0.02 (1)	7.81			
B-E	0 / 0	-18.5	-18.5 0.13 (1)	10.00			
E-D	0 / 0	-18.5	-18.5 0.14 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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=0.19/1.00 (C-F:1), BC=0.14/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.25/1.00 (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.

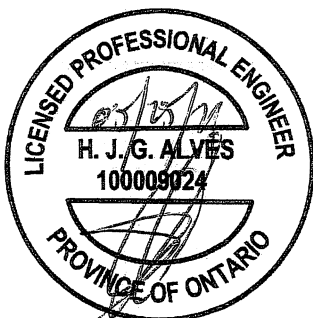
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

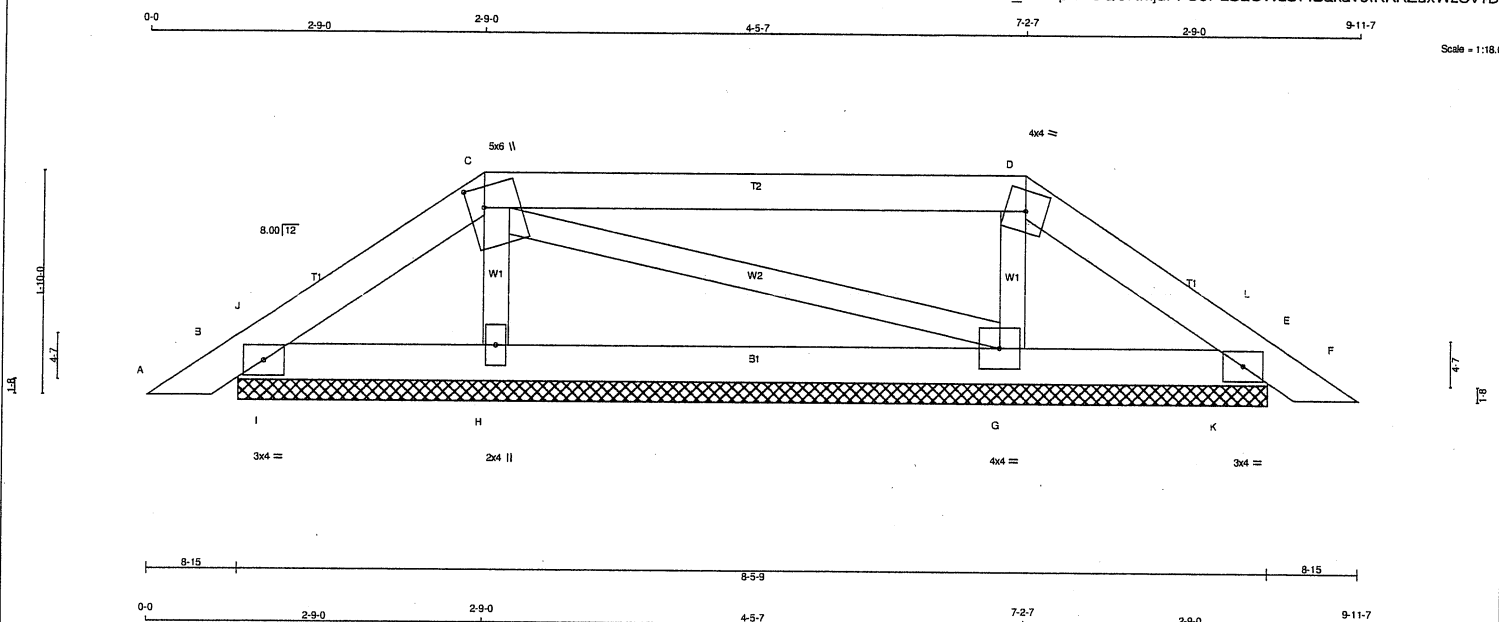
JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.05 (C) (INPUT = 1.00)



Structural component only
DWG# T-2115669

JOB NAME 411170	TRUSS NAME PB70	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF
A - C	2x4	DRY	No.2	SPF	SPF
C - D	2x4	DRY	No.2	SPF	SPF
D - F	2x4	DRY	No.2	SPF	SPF
B - E	2x4	DRY	No.2	SPF	SPF
ALL WEBS	2x3	DRY	No.2	SPF	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
D - F 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B - E 1	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	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
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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
B	199	0	199	0	0
E	191	0	191	0	0
H	324	0	324	0	0
G	340	0	340	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
B	138	107 / 0	0 / 0
E	133	102 / 0	0 / 0
H	231	142 / 0	0 / 0
G	242	151 / 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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 MAX	MEMB.	FORCE (LBS)	MAX. LC1 MAX	MAX. LC1 MAX
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
A-B	0 / 15	-91.8	-91.8 0.01 (1)	H-C	-237 / 0	0.02 (1)	
B-J	-58 / 0	-91.8	-91.8 0.00 (1)	C-G	-13 / 0	0.00 (1)	
J-C	-70 / 0	-91.8	-91.8 0.02 (1)	G-D	-249 / 0	0.02 (1)	
C-D	-26 / 0	-91.8	-91.8 0.15 (1)	I-J	-111 / 0	0.00 (1)	
D-L	-56 / 0	-91.8	-91.8 0.02 (1)	K-L	-112 / 0	0.00 (1)	
L-E	-43 / 0	-91.8	-91.8 0.00 (1)				
E-F	0 / 15	-91.8	-91.8 0.01 (1)				
B-I	0 / 56	-18.5	-18.5 0.02 (1)				
I-H	0 / 56	-18.5	-18.5 0.03 (4)				
H-G	0 / 38	-18.5	-18.5 0.03 (4)				
G-K	0 / 44	-18.5	-18.5 0.03 (4)				
K-E	0 / 44	-18.5	-18.5 0.02 (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 FLAT SECTION BASED ON A SLOPE OF 6.00/12

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=0.15/1.00 (C-D:1), BC=0.03/1.00 (H-I:4), WB=0.02/1.00 (D-G:1), SSI=0.08/1.00 (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

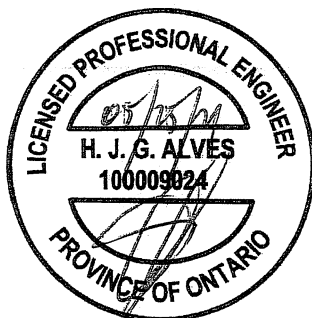
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

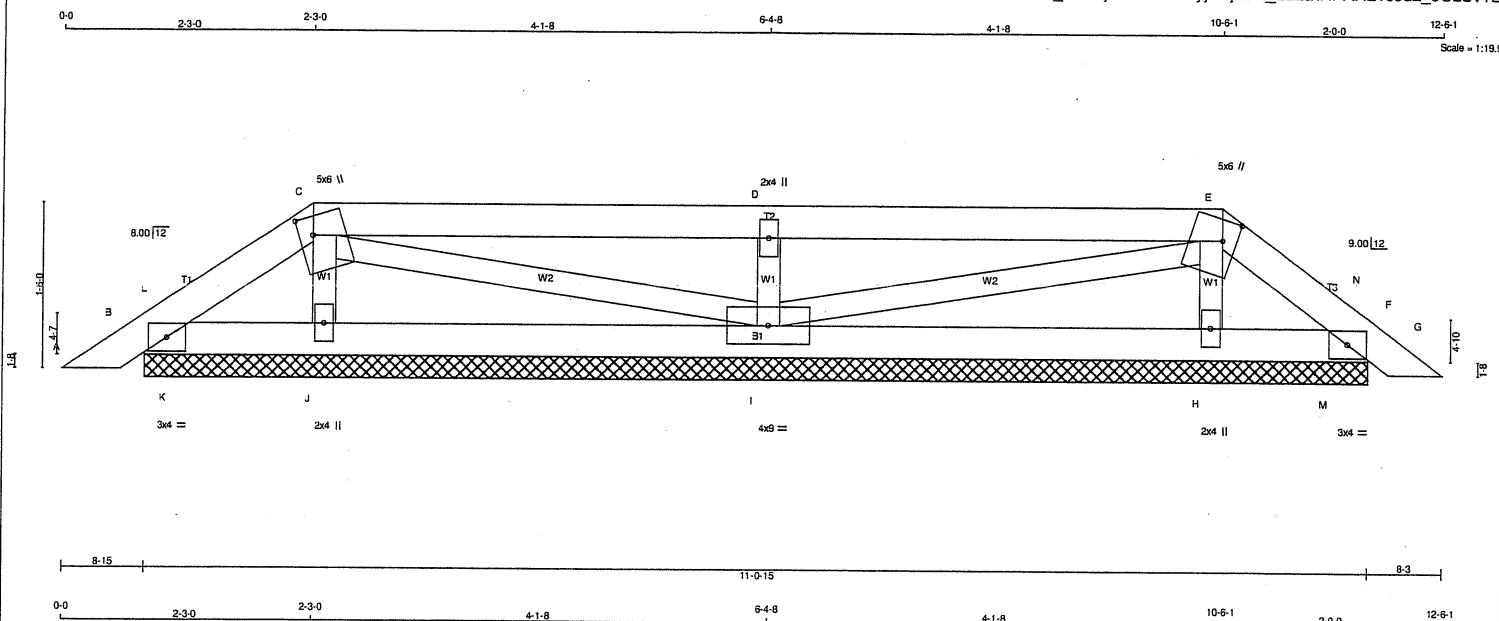
JSI GRIP= 0.08 (D) (INPUT = 0.90)
JSI METAL= 0.02 (H) (INPUT = 1.00)



Structural component only
DWG# T-2115683

JOB NAME 411170	TRUSS NAME PB71	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

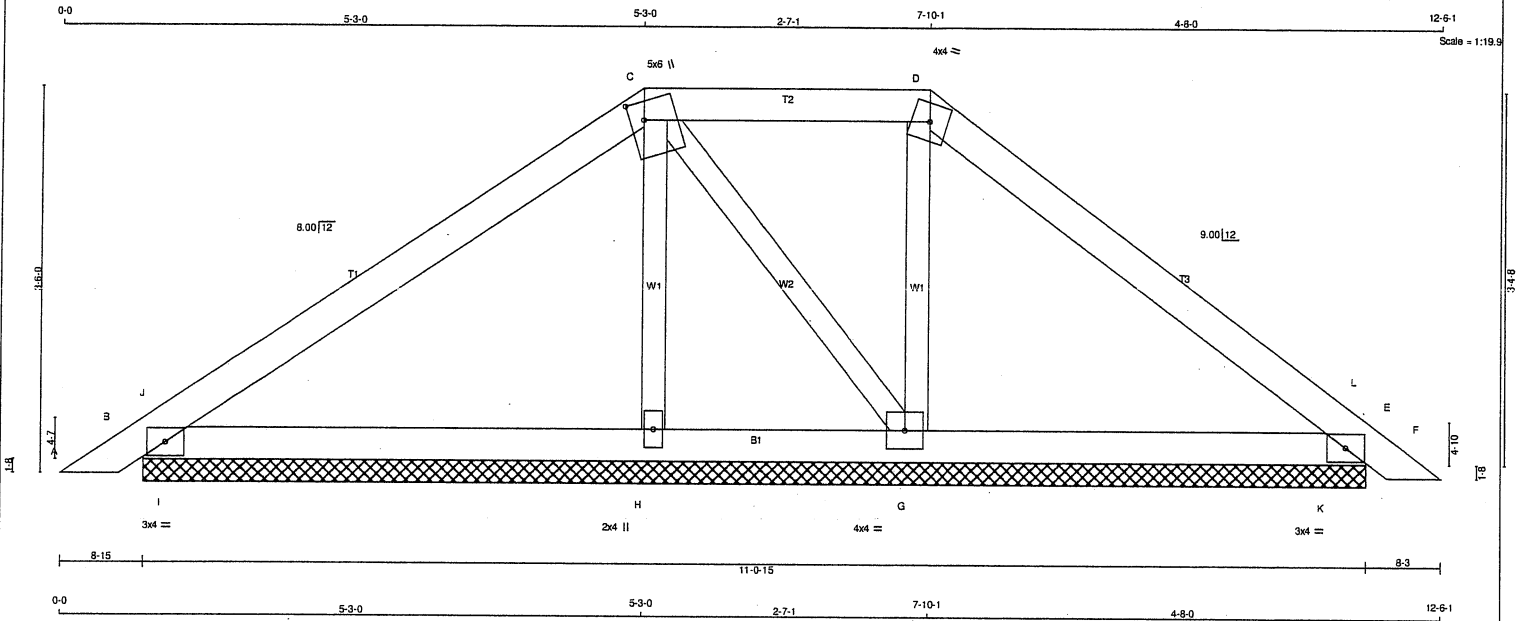
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:10 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-IjUFruTcFVVyJNZIZ?R_2dLcxNPXN21cod2_0OzCv1B



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	PB72	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-IjUFruTcFVVyjNZZ?R_2dLdTNQN3Tcod2_0OzCv1B



TOTAL WEIGHT = 37 lb [M]

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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.			SPF

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	BMW1-t	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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
B	391	0	391	0	0	11-0-15	11-0-15		
E	344	0	344	0	0	11-0-15	11-0-15		
H	271	0	271	0	0	11-0-15	11-0-15		
G	331	0	331	0	0	11-0-15	11-0-15		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	274	194 / 0	0 / 0	0 / 0	0 / 0	81 / 0	0 / 0
E	241	169 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
H	194	114 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
G	233	155 / 0	0 / 0	0 / 0	0 / 0	79 / 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)	H-C	-152 / 0	0.03 (1)	
B-J	-53 / 0	-91.8 -91.8	0.10 (1)	C-G	-51 / 0	0.02 (1)	
J-C	-179 / 0	-91.8 -91.8	0.23 (1)	G-D	-196 / 0	0.04 (1)	
C-D	-97 / 0	-91.8 -91.8	0.10 (1)	I-J	-432 / 0	0.00 (1)	
D-L	-139 / 0	-91.8 -91.8	0.18 (1)	K-L	-379 / 0	0.00 (1)	
L-E	-47 / 0	-91.8 -91.8	0.07 (1)				
E-F	0 / 15	-91.8 -91.8	0.02 (1)				
B-I	0 / 141	-18.5 -18.5	0.20 (1)				
I-H	0 / 141	-18.5 -18.5	0.20 (1)				
H-G	0 / 136	-18.5 -18.5	0.12 (1)				
G-K	0 / 104	-18.5 -18.5	0.16 (1)				
K-E	0 / 104	-18.5 -18.5	0.16 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.23/1.00 (C-J:1), BC=0.20/1.00 (H-I:1), WB=0.04/1.00 (D-G:1), SSI=0.34/1.00 (B-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

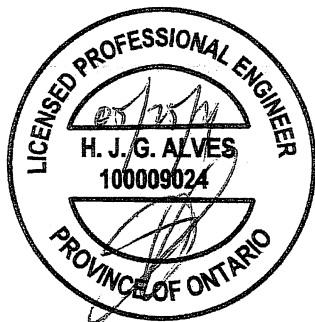
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(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= 0.32 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)

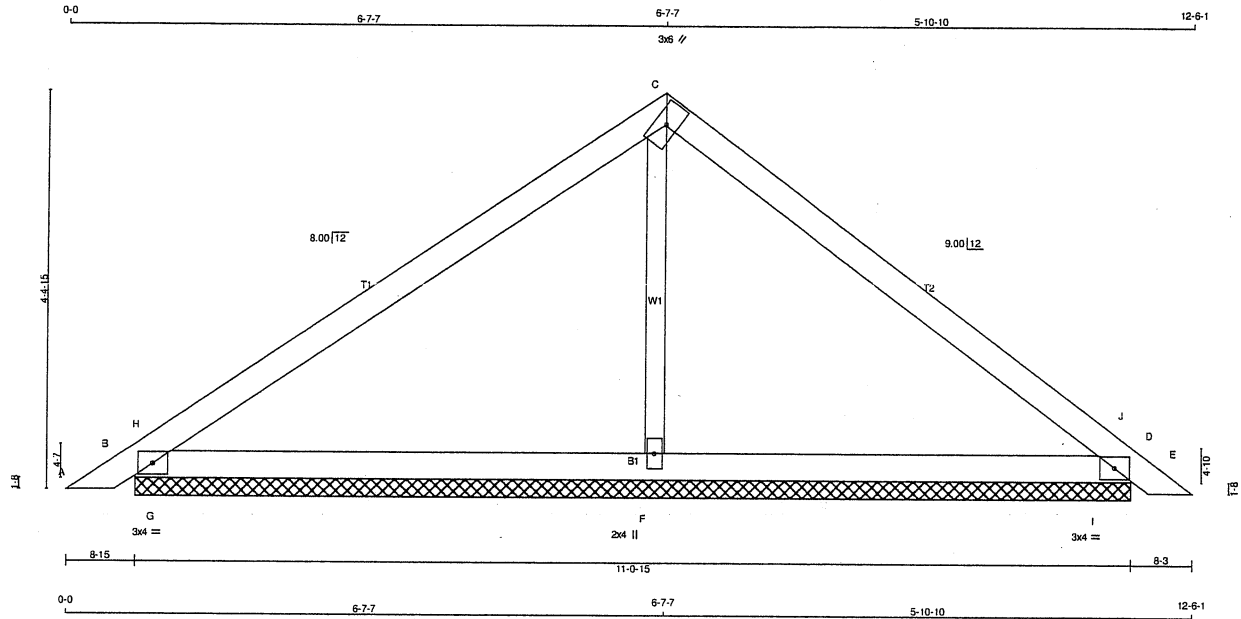


Structural component only
DWG# T-2115685

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	PB73	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:12 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-i6c?FaUtn6lgzgj6gQTS72QwTB0ZrZyVFxX54HzCv19



TOTAL WEIGHT = 3 X 33 = 99 lb

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	SPF
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-I	MT20	3.0	4.0	
C	TTW+h	MT20	3.0	6.0	
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	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
B	483	0	483	0	11-0-15
D	460	0	460	0	11-0-15
F	393	0	393	0	11-0-15

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	DEAD	SOIL
B	339	240 / 0	0 / 0	0 / 0	0 / 0
D	322	229 / 0	0 / 0	0 / 0	0 / 0
F	282	162 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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	F-C	-148 / 0
B-H	-46 / 82	-91.8	-91.8	0.23 (1)	6.25	G-H	-790 / 0
H-C	-250 / 0	-91.8	-91.8	0.39 (1)	6.25	I-J	-714 / 0
C-J	-284 / 0	-91.8	-91.8	0.30 (1)	6.25		
J-D	-45 / 65	-91.8	-91.8	0.19 (1)	6.25		
D-E	0 / 15	-91.8	-91.8	0.02 (1)	10.00		
B-G	0 / 195	-18.5	-18.5	0.35 (1)	10.00		
G-F	0 / 195	-18.5	-18.5	0.35 (1)	10.00		
F-I	0 / 198	-18.5	-18.5	0.29 (1)	10.00		
I-D	0 / 198	-18.5	-18.5	0.29 (1)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

CSI: TC=0.39/1.00 (C-H:1), BC=0.35/1.00 (B-G:1), WB=0.04/1.00 (C-F:1), SSI=0.60/1.00 (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

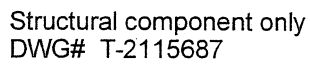
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.41 (B) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)



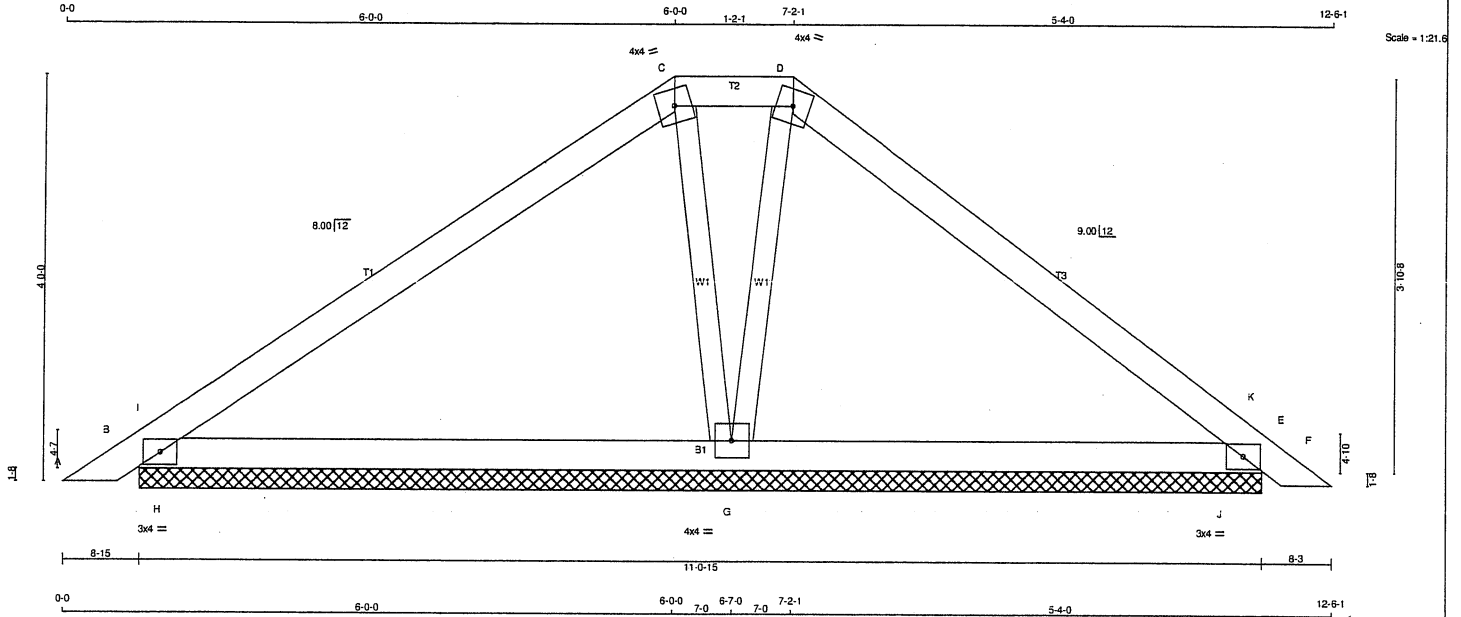
Structural component only
DWG# T-2115686



JOB NAME 411170	TRUSS NAME PB74	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:14 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-eUkgGW7Jk?OC_sVorVwDTVH3?jPjUciF0C9AzCv17



TOTAL WEIGHT = 35 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-t	MT20	3.0	4.0	
C TTW-m	MT20	4.0	4.0	
D TTW-m	MT20	4.0	4.0	
E TMB1-t	MT20	3.0	4.0	
G BMWW1-t	MT20	4.0	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	GROSS REACTION	BRG	BRG
B	447	0	447	0	11-0-15
E	407	0	407	0	11-0-15
G	483	0	483	0	11-0-15

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
B	314	219 / 0	0 / 0	0 / 0	0 / 0	95 / 0
E	285	200 / 0	0 / 0	0 / 0	0 / 0	85 / 0
G	344	212 / 0	0 / 0	0 / 0	0 / 0	132 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX. UNBRAC (LC)	MAX. UNBRAC (LC)
FR-TO		FROM	TO	FR-TO			
A-B	0 / 15	-91.8	-91.8 0.03 (1)	10.00	C-G	-152 / 0	0.04 (1)
B-I	-69 / 0	-91.8	-91.8 0.14 (1)	6.25	G-D	-119 / 0	0.03 (1)
I-C	-211 / 0	-91.8	-91.8 0.32 (1)	6.25	H-I	-571 / 0	0.00 (1)
C-D	-137 / 0	-91.8	-91.8 0.02 (1)	6.25	J-K	-549 / 0	0.00 (1)
D-K	-205 / 0	-91.8	-91.8 0.24 (1)	6.25			
K-E	-51 / 27	-91.8	-91.8 0.13 (1)	6.25			
E-F	0 / 15	-91.8	-91.8 0.02 (1)	10.00			
B-H	0 / 165	-18.5	-18.5 0.26 (1)	10.00			
H-G	0 / 165	-18.5	-18.5 0.26 (1)	10.00			
G-J	0 / 154	-18.5	-18.5 0.23 (1)	10.00			
J-E	0 / 154	-18.5	-18.5 0.22 (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 6.00/12

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=0.32/1.00 (C-I:1), BC=0.26/1.00 (B-H:1), WB=0.04/1.00 (C-G:1), SSI=0.45/1.00 (B-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

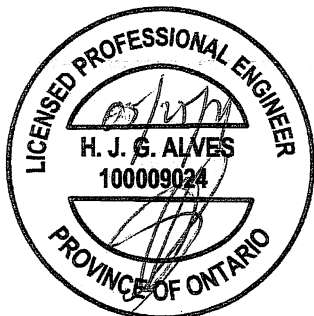
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.36 (B) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)

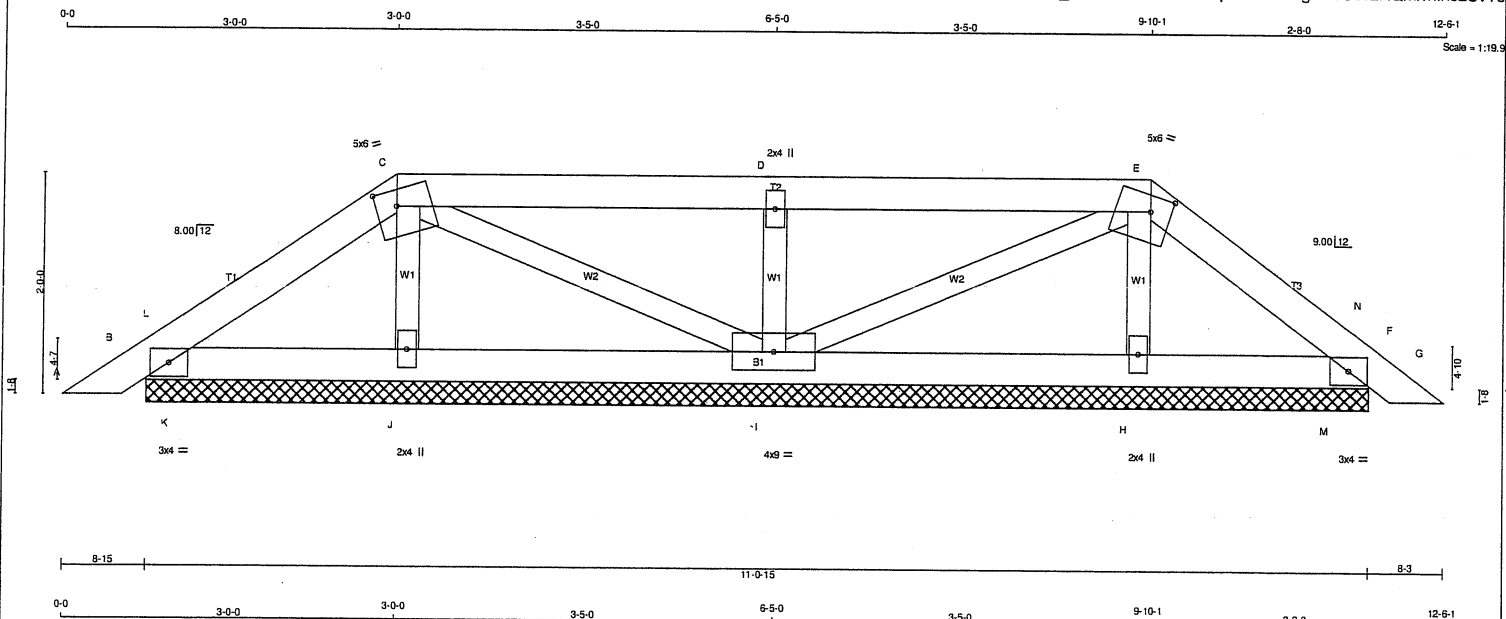


Structural component only
DWG# T-2115688

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	PB75	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:15 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-6hl7ucWl417Fq8RhMY09lg2V?O7r2KQMxvllhcZCv16



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	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	1.75 2.25
D	TMW+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	BMWWW1-I	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 IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
B	207	0	207	0	11-0-15	11-0-15
F	188	0	188	0	11-0-15	11-0-15
J	244	0	244	0	11-0-15	11-0-15
I	472	0	472	0	11-0-15	11-0-15
H	226	0	226	0	11-0-15	11-0-15

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
B	144	106 / 0	0 / 0	0 / 0	38 / 0	0 / 0	0 / 0
F	131	97 / 0	0 / 0	0 / 0	34 / 0	0 / 0	0 / 0
J	174	105 / 0	0 / 0	0 / 0	69 / 0	0 / 0	0 / 0
I	332	227 / 0	0 / 0	0 / 0	105 / 0	0 / 0	0 / 0
H	162	96 / 0	0 / 0	0 / 0	66 / 0	0 / 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. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 15	-91.8 -91.8	0.03 (1)	10.00	J-C	-162 / 0	0.02 (1)
B-L	-40 / 0	-91.8 -91.8	0.01 (1)	6.25	C-I	-30 / 0	0.01 (1)
L-C	-55 / 0	-91.8 -91.8	0.05 (1)	6.25	I-D	-391 / 0	0.06 (1)
C-D	-5 / 0	-91.8 -91.8	0.18 (1)	10.00	I-E	-28 / 0	0.01 (1)
D-E	-5 / 0	-91.8 -91.8	0.18 (1)	10.00	H-E	-150 / 0	0.02 (1)
E-N	-54 / 0	-91.8 -91.8	0.04 (1)	6.25	K-L	-127 / 0	0.00 (1)
N-F	-38 / 0	-91.8 -91.8	0.01 (1)	6.25	M-N	-114 / 0	0.00 (1)
F-G	0 / 15	-91.8 -91.8	0.02 (1)	10.00			
B-K	0 / 43	-18.5 -18.5	0.06 (1)	10.00			
K-J	0 / 43	-18.5 -18.5	0.06 (1)	10.00			
J-I	0 / 33	-18.5 -18.5	0.04 (4)	10.00			
I-H	0 / 31	-18.5 -18.5	0.04 (4)	10.00			
H-M	0 / 41	-18.5 -18.5	0.05 (1)	10.00			
M-F	0 / 41	-18.5 -18.5	0.05 (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 6.00/12

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=0.18/1.00 (C-D:1), BC=0.06/1.00 (B-K:1), WB=0.06/1.00 (D-I:1), SS=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

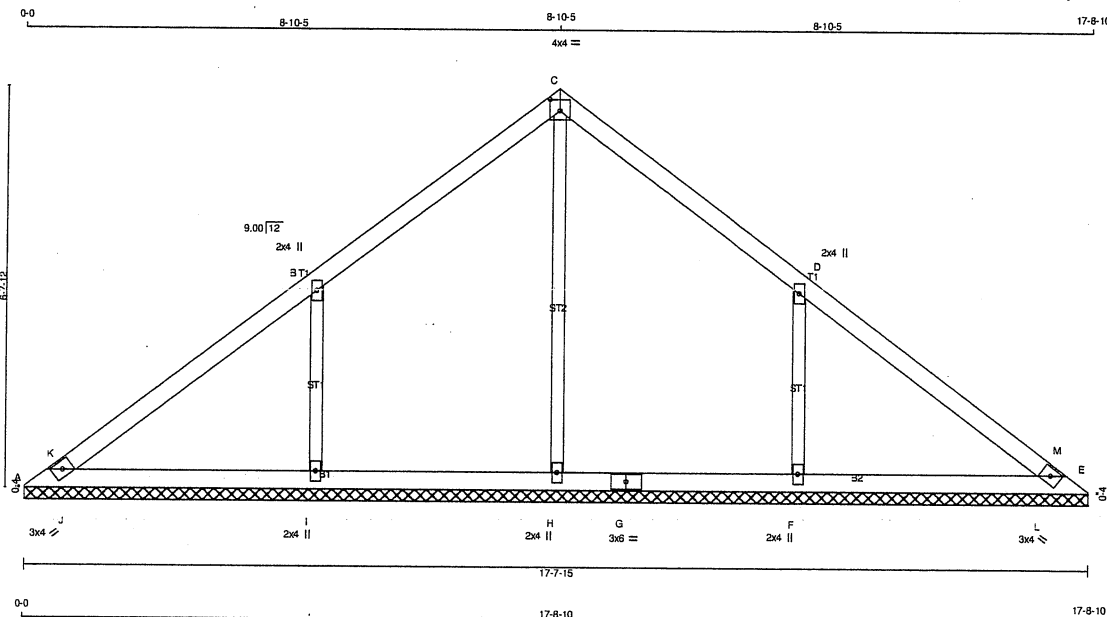
JSI GRIP= 0.20 (D) (INPUT = 0.90)
JSI METAL= 0.08 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115689

JOB NAME 411170	TRUSS NAME V1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 17:42:39 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-PlICwpppQP9riqHlmbSnjk2ZD4IMg7HuSeZ1WDzCv0k



TOTAL WEIGHT = 54 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TBM1-h	MT20	3.0	4.0	
B	TMW+w	MT20	2.0	4.0	
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TMW+w	MT20	2.0	4.0	
E	TBM1-h	MT20	3.0	4.0	
F, H, I					
F	BMW1+w	MT20	2.0	4.0	
G	BS-4	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
A	138	0	138	0	0	17-7-15 (7-8-3) 7-15		
E	138	0	138	0	0	17-7-15 (7-8-3) 7-15		
H	489	0	489	0	0	17-7-15 (7-8-3) 7-15		
I	591	0	591	0	0	17-7-15 (7-8-3) 7-15		
F	591	0	591	0	0	17-7-15 (7-8-3) 7-15		

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	MAX./MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	97	67/0	0/0	0/0	0/0	29/0	0/0
E	97	67/0	0/0	0/0	0/0	29/0	0/0
H	349	213/0	0/0	0/0	0/0	136/0	0/0
I	417	278/0	0/0	0/0	0/0	139/0	0/0
F	417	278/0	0/0	0/0	0/0	139/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.
FR-TO				FR-TO			
A-K	0/112	-91.8	-91.8 0.04 (4)	10.00	H-C	-449/0	0.32 (1)
K-B	0/156	-91.8	-91.8 0.29 (1)	10.00	I-B	-460/0	0.10 (1)
B-C	0/113	-91.8	-91.8 0.28 (1)	10.00	F-D	-460/0	0.10 (1)
C-D	0/113	-91.8	-91.8 0.28 (1)	10.00	J-K	-143/6	0.00 (1)
D-M	0/156	-91.8	-91.8 0.29 (1)	10.00	L-M	-143/6	0.00 (1)
M-E	0/112	-91.8	-91.8 0.04 (4)	10.00			
A-J	-128/0	-18.5	-18.5 0.13 (1)	6.25			
J-I	-101/0	-18.5	-18.5 0.13 (1)	6.25			
I-H	-113/0	-18.5	-18.5 0.10 (1)	6.25			
H-G	-113/0	-18.5	-18.5 0.10 (1)	6.25			
G-F	-113/0	-18.5	-18.5 0.10 (1)	6.25			
F-L	-101/0	-18.5	-18.5 0.13 (1)	6.25			
L-E	-128/0	-18.5	-18.5 0.13 (1)	6.25			

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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=0.29/1.00 (D-M:1), BC=0.13/1.00 (F-L:1), WB=0.32/1.00 (C-H:1), SSI=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

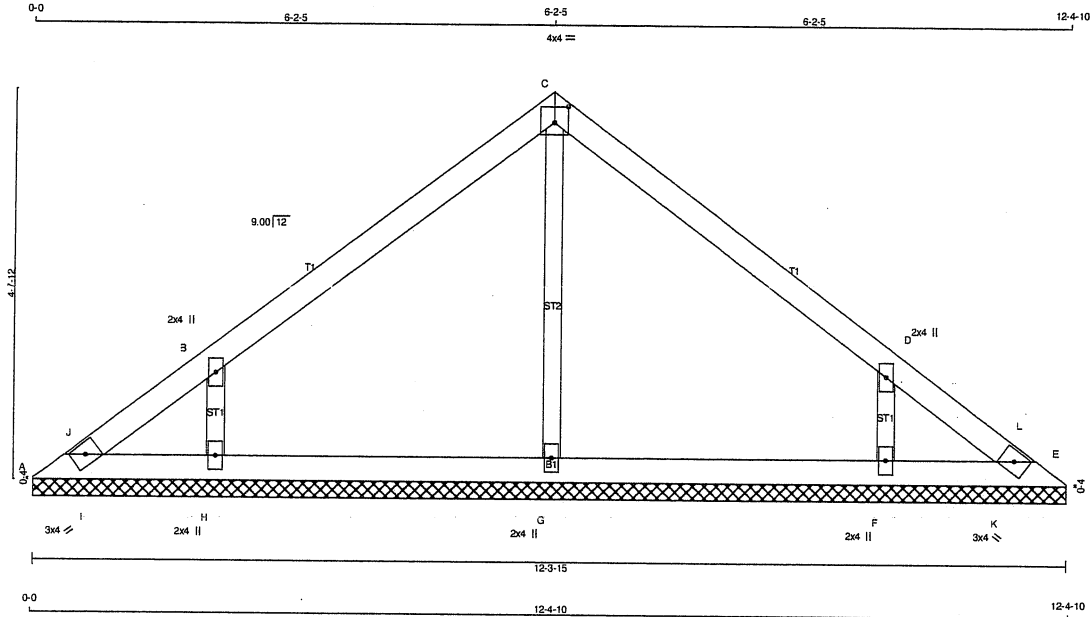
JSI GRIP= 0.38 (C) (INPUT = 0.90)
JSI METAL= 0.24 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115707

JOB NAME 411170	TRUSS NAME V2	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1/25.2

TOTAL WEIGHT = 36 lb [M]

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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A TBM1-h	MT20	3.0	4.0		
B TMW+w	MT20	2.0	4.0		
C TTW-p	MT20	4.0	4.0	2.25	2.00
D TMW+w	MT20	2.0	4.0		
E TBM1-h	MT20	3.0	4.0		
F, G, H					
F BMW1+w	MT20	2.0	4.0		

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
A	87	0	87	0	0	12-3-15	12-3-15
E	87	0	87	0	0	12-3-15	12-3-15
G	297	0	297	0	0	12-3-15	12-3-15
H	444	0	444	0	0	12-3-15	12-3-15
F	444	0	444	0	0	12-3-15	12-3-15

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
A	COMBINED	SNOW	LIVE				
A	61	42/0	0/0	0/0	0/0	19/0	0/0
E	61	42/0	0/0	0/0	0/0	19/0	0/0
G	213	122/0	0/0	0/0	0/0	92/0	0/0
H	313	212/0	0/0	0/0	0/0	101/0	0/0
F	313	212/0	0/0	0/0	0/0	101/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) A, E, G, H, 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				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-J	-109/0	-91.8 -91.8 0.03 (1)	6.25	G-C	-216/0	0.07 (1)	
J-B	-30/0	-91.8 -91.8 0.20 (1)	6.25	H-B	-393/0	0.06 (1)	
B-C	-93/0	-91.8 -91.8 0.20 (1)	6.25	F-D	-393/0	0.06 (1)	
C-D	-93/0	-91.8 -91.8 0.20 (1)	6.25	I-J	0/42	0.00 (1)	
D-L	-30/0	-91.8 -91.8 0.20 (1)	6.25	K-L	0/42	0.00 (1)	
L-E	-109/0	-91.8 -91.8 0.03 (1)	6.25				
A-I	0/88	-18.5 -18.5 0.02 (1)	10.00				
I-H	0/84	-18.5 -18.5 0.05 (4)	10.00				
H-G	0/57	-18.5 -18.5 0.07 (4)	10.00				
G-F	0/57	-18.5 -18.5 0.07 (4)	10.00				
F-K	0/84	-18.5 -18.5 0.05 (4)	10.00				
K-E	0/88	-18.5 -18.5 0.02 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.20/1.00 (B-C:1), BC=0.07/1.00 (F-G:4), WB=0.07/1.00 (C-G:1), SSI=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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.

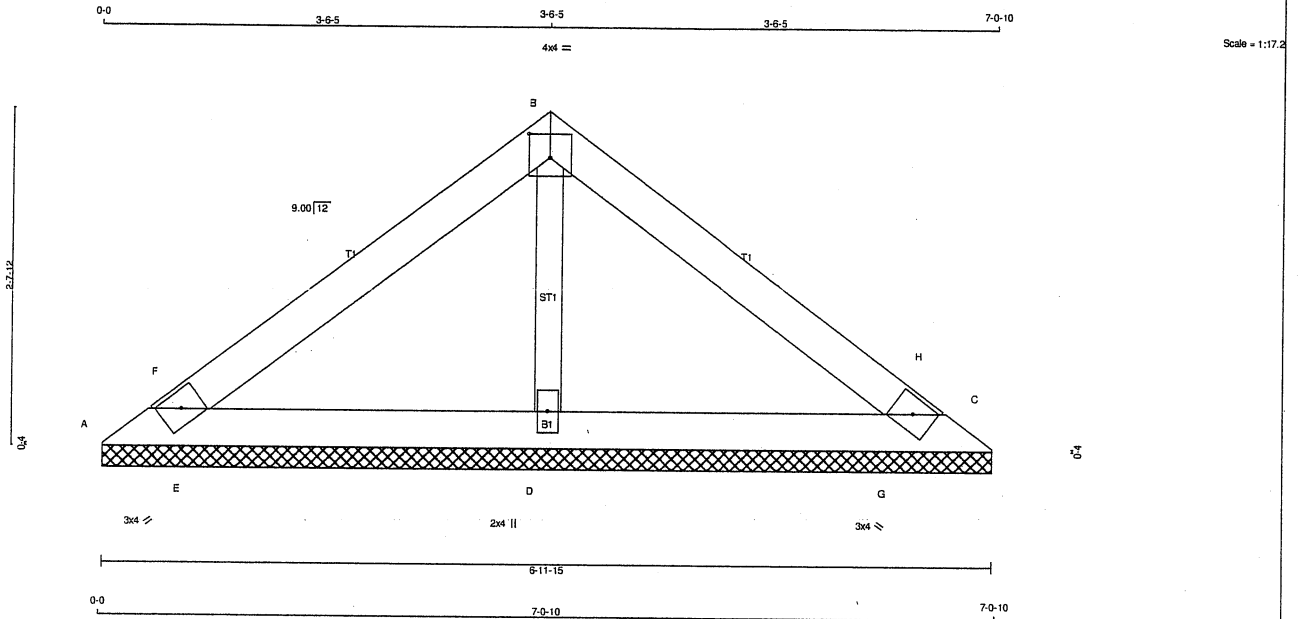
JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.21 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115708

JOB NAME 411170	TRUSS NAME V3	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 18 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	SIZE	LUMBER		
CHORDS				
A - B	2x4	DRY	No.2	SPF
B - C	2x4	DRY	No.2	SPF
A - 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	TBM1-h	MT20	3.0	4.0		
B	TTW-p	MT20	4.0	4.0	2.25	2.00
C	TBM1-h	MT20	3.0	4.0		
D	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		REQD	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	BRG	BRG
A	72	0	72	0	6-11-15	6-11-15		
C	72	0	72	0	6-11-15	6-11-15		
D	627	0	627	0	6-11-15	6-11-15		

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
A	51	34 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
C	51	34 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	443	290 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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		FACTORED		WEBS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	UNBRAC	MEMB. FORCE (LBS)	MAX	CS1 (LC)
FR-TO		FROM TO			LENGTH	FR-TO		
A-F	0 / 183	-91.8	-91.8	0.06 (1)	10.00	D-B	-463 / 0	0.07 (1)
F-B	0 / 182	-91.8	-91.8	0.14 (1)	10.00	E-F	-165 / 0	0.00 (1)
B-H	0 / 182	-91.8	-91.8	0.14 (1)	10.00	G-H	-165 / 0	0.00 (1)
H-C	0 / 183	-91.8	-91.8	0.06 (1)	10.00			
A-E	-174 / 0	-18.5	-18.5	0.11 (1)	6.25			
E-D	-150 / 0	-18.5	-18.5	0.11 (1)	6.25			
D-G	-150 / 0	-18.5	-18.5	0.11 (1)	6.25			
G-C	-174 / 0	-18.5	-18.5	0.11 (1)	6.25			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.14/1.00 (B-H:1), BC=0.11/1.00 (D-G:1), WB=0.07/1.00 (B-D:1), SSI=0.09/1.00 (C-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	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= 0.39 (B) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)

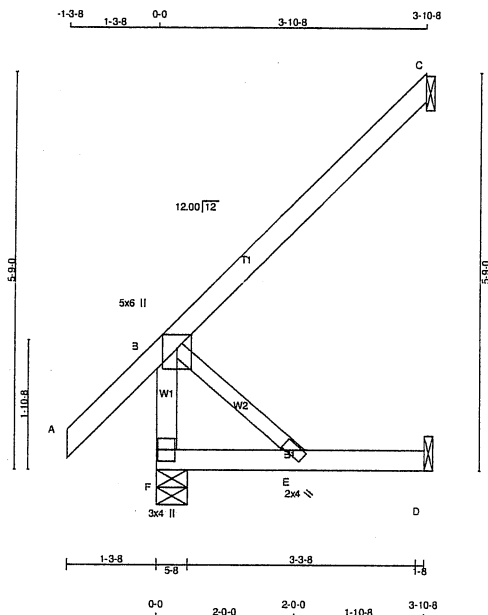


Structural component only
DWG# T-2115709

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	J1	15	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale: 3/8"=1'

TOTAL WEIGHT = 15 X 17 = 250 lb

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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	5.0	6.0 Edge
E	BMW+w	MT20	2.0	4.0
F	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	342	0	342	0	5-8	5-8
C	178	0	178	0	1-8	1-8
D	36	0	40	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS				
		SNOW	LIVE	PERM. LIVE	WIND	DEAD
F	239	171 / 0	0 / 0	0 / 0	69 / 0	0 / 0
C	122	99 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	29	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM	TO		FR-TO		
F-B	-306 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0
A-B	0 / 45	-91.8	-91.8	0.14 (5)	10.00		0.00 (1)
B-C	0 / 0	-91.8	-91.8	0.23 (1)	10.00		
F-E	0 / 0	-18.5	-18.5	0.08 (4)	10.00		
E-D	0 / 0	-18.5	-18.5	0.08 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 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

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

CSI: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

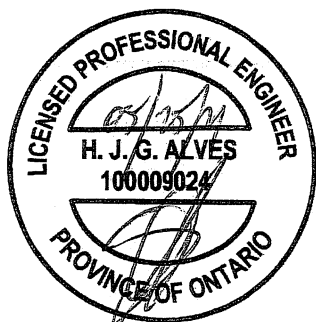
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	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= 0.06 (B) (INPUT = 1.00)

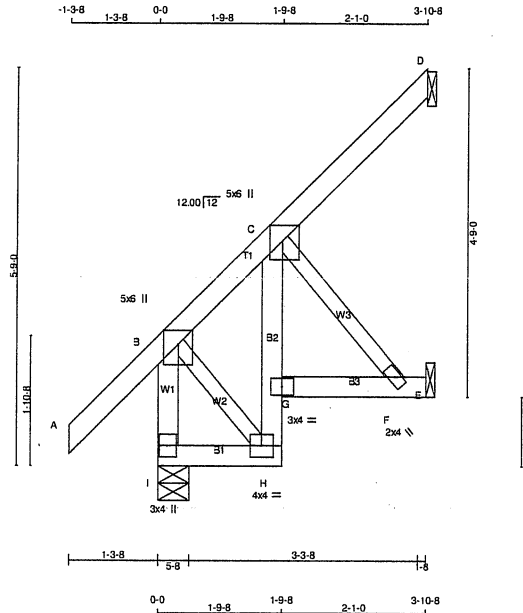


Structural component only
DWG# T-2115616

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	J1S	9	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-aS7?L8jhM5A18zH8r?bUaVf1tZyxcZ1gIMbk9tzCvvf



Scale: 3/8"=1'

TOTAL WEIGHT = 9 X 22 = 197 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	5.0	6.0	Edge
C	TMVW+p	MT20	5.0	6.0	Edge 2.25
F	BMW+w	MT20	2.0	4.0	
G	BVM-I	MT20	3.0	4.0	
H	BMVW-t	MT20	4.0	4.0	
I	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
I	365	0	365	0	5-8	5-8
D	97	0	97	0	1-8	1-8
E	94	0	94	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	UNBRAC			
I	255	183 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
D	67	53 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
E	68	33 / -16	0 / 0	0 / 0	0 / 0	35 / 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: (5)

MEMB.	CHORDS		FACTORED		MAX. FACTORED	MEMB.	WEBS		MAX. FACTORED
	FORCE (LBS)	VERT. LOAD LC1	(PLF)	CSI (LC)		FORCE (LBS)	FORCE (LBS)	CSI (LC)	
FR-TO			FROM	TO	UNBRAC LENGTH	FR-TO			
I-B	-349 / 0	0.0	0.0	0.04 (1)	7.81	B-H	-8 / 70	0.02 (1)	
A-B	0 / 45	-91.8	-91.8	0.14 (5)	10.00	C-F	-119 / 14	0.02 (1)	
B-C	-106 / 0	-91.8	-91.8	0.14 (5)	6.25				
C-D	-4 / 4	-91.8	-91.8	0.07 (1)	10.00				
I-H	0 / 0	-18.5	-18.5	0.01 (4)	10.00				
H-G	-32 / 17	0.0	0.0	0.07 (1)	7.81				
G-C	0 / 30	0.0	0.0	0.07 (1)	10.00				
G-F	-9 / 75	-18.5	-18.5	0.07 (1)	10.00				
F-E	0 / 0	-18.5	-18.5	0.06 (1)	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
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.14/1.00 (A-B-5), BC=0.07/1.00 (C-G-1), WB=0.02/1.00 (C-F-1), SSI=0.08/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

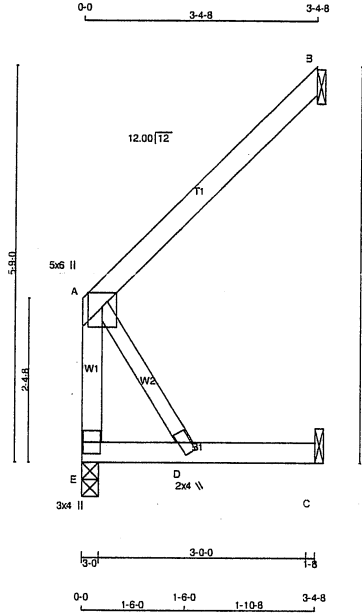


Structural component only
DWG# T-2115617

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	J2	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 16:41:58 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-WqElIqIxtjQTOHRXzPdyfwkNsMeZ4TzDg4rElzCvvd



Scale: 3/8"=1'

TOTAL WEIGHT = 4 X 14 = 55 lb

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	5.0	6.0 Edge
D	BMV+w	MT20	2.0	4.0
E	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	186	0	186	0	3-0	3-0
B	155	0	155	0	1-8	1-8
C	31	0	35	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
E	132	86/0	0/0	0/0	0/0	0/0	45/0
B	107	86/0	0/0	0/0	0/0	0/0	20/0
C	25	0/0	0/0	0/0	0/0	0/0	25/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC LENGTH	FR-TO	WEBS		MEMB.	FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX			MAX. FORCE (LBS)	MAX		MAX. FORCE (LBS)	MAX
E-A	-155/0	0.0	0.0	0.02 (1)	7.81	A-D	0/0	0.00 (1)			
A-B	0/0	-91.8	-91.8	0.18 (1)	10.00						
E-D	0/0	-18.5	-18.5	0.06 (4)	10.00						
D-C	0/0	-18.5	-18.5	0.06 (4)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.18/1.00 (A-B:1), BC=0.06/1.00 (C-D:4), WB=0.00/1.00 (A-D:1), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (A) (INPUT = 0.90)
JSI METAL= 0.03 (A) (INPUT = 1.00)

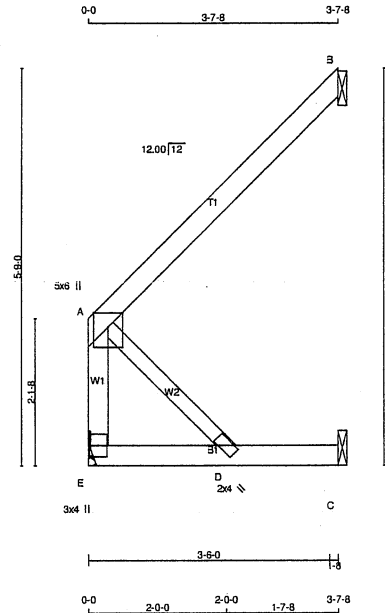


Structural component only
DWG# T-2115618

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	J4	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-_1o8zAmZe0YJ?R?jX78BC8HXAmzepw76RKqPmCzCvvc



Scale: 3/8"=1'

TOTAL WEIGHT = 3 X 14 = 43 lb
[M](F)

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	5.0	6.0	Edge	
D	BMW+w	MT20	2.0	4.0		
E	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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
E	200	200	0	0
B	166	166	0	0
C	34	38	0	0

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	141	93 / 0	0 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0
B	114	93 / 0	0 / 0	0 / 0	0 / 0	0 / 0	22 / 0	0 / 0
C	27	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	27 / 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 (PLF)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
E-A	-166 / 0	0.0	0.0	0.02 (1)	7.81	A-D	0 / 0	0.00 (1)			
A-B	0 / 0	-91.8	-91.8	0.21 (1)	10.00						
E-D	0 / 0	-18.5	-18.5	0.07 (4)	10.00						
D-C	0 / 0	-18.5	-18.5	0.07 (4)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.19")
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=0.21/1.00 (A-B:1), BC=0.07/1.00 (D-E:4),
WB=0.00/1.00 (A-D:1), 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

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

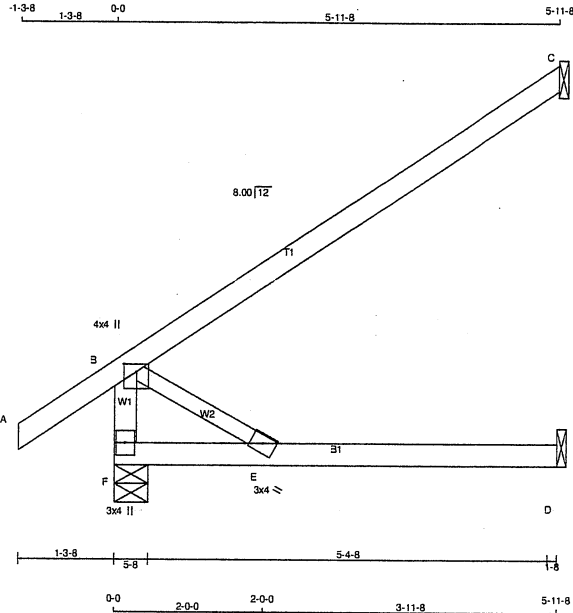
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (A) (INPUT = 0.90)
JSI METAL= 0.03 (A) (INPUT = 1.00)



Structural component only
DWG# T-2115619

JOB NAME 411169	TRUSS NAME J50	QUANTITY 6	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:55:08 2021 Page 1			ID:GAonzd6DLBrd2xE89xtNtRz_BuP-NpzPZyJTqRyN9hqMFKoDgWTHcpDKAmSFtaSfzzCvjH



Scale = 1/25.5

TOTAL WEIGHT = 6 X 20 = 119 lb

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	1.25 2.00
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		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
F	454	0	454	0	0	5-8	5-8	5-8	5-8
C	273	0	273	0	0	1-8	1-8	1-8	1-8
D	55	0	62	0	0	1-8	1-8		

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	319	223 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0
C	188	152 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0
D	44	0 / 0	0 / 0	0 / 0	0 / 0	44 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	MAX. UNBRAC LENGTH FR-TO	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
F-B	-399 / 0	0.0	0.0 0.04 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00			
B-C	0 / 0	-91.8	-91.8 0.55 (1)	10.00			
F-E	0 / 0	-18.5	-18.5 0.17 (4)	10.00			
E-D	0 / 0	-18.5	-18.5 0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/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

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 (0.06")

CSI: TC=0.55/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

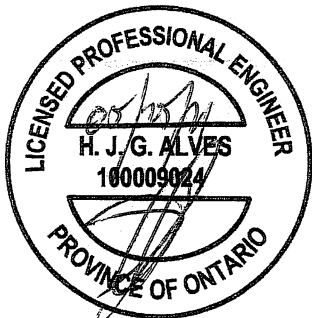
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)

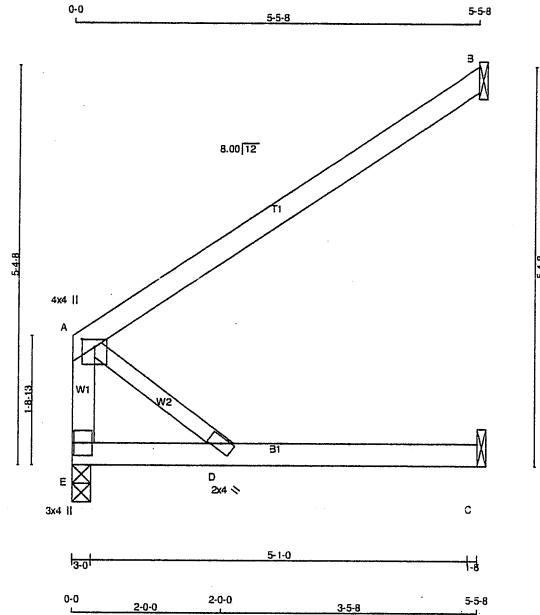


Structural component only
DWG# T-2115665

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411169	J51	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-s?XnmIK6bl4EnrPYp1JSDk?TIDa2vDIO5EBCVPzCvjG



Scale = 1/2" = 1'-0"

TOTAL WEIGHT = 6 X 17 = 103 lb

LUMBER				DESCR.	
N. L. G. A. RULES	SIZE	LUMBER		SPF	
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	BMW+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	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	301	0	301	0	3-0	3-0
B	250	0	250	0	1-8	1-8
C	50	0	57	0	1-8	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	213	140 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
B	172	140 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0
C	40	0 / 0	0 / 0	0 / 0	0 / 0	40 / 0	0 / 0

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

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 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
E-A	-250 / 0	0.0 0.0	0.03 (1)	7.81	A-D	0 / 0	0.00 (1)
A-B	0 / 0	-91.8 -91.8	0.46 (1)	10.00			
E-D	0 / 0	-18.5 -18.5	0.15 (4)	10.00			
D-C	0 / 0	-18.5 -18.5	0.16 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.46/1.00 (A-B:1), BC=0.16/1.00 (C-D:4),
WB=0.00/1.00 (A-D:1), SS=0.16/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

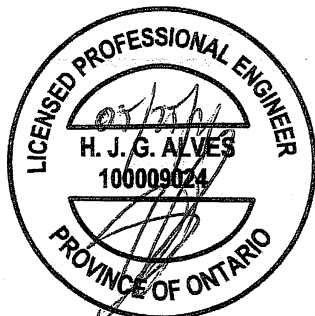
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (A) (INPUT = 0.90)

JSI METAL= 0.05 (A) (INPUT = 1.00)

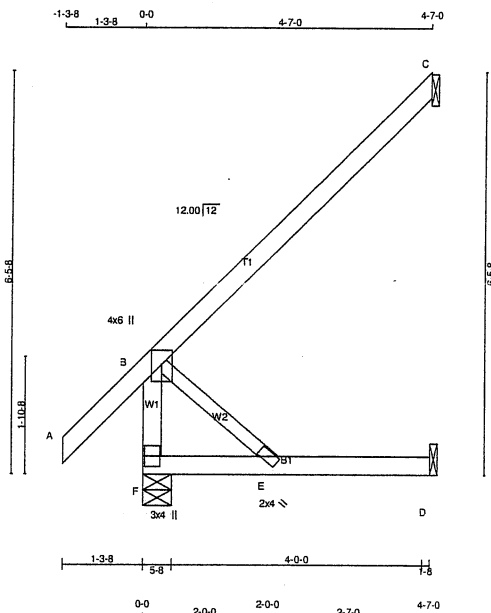


Structural component only
DWG# T-2115666

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	J70	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Tue May 25 17:42:07 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-L8p6CtQkya7Osvq9ustHQ_j4kAN4AiKA5gpKP4zCv1E



TOTAL WEIGHT = 4 X 19 = 75 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	6.0	2.75 2.00
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		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
F	381	0	381	0	0	5-8	5-8	5-8	5-8
C	210	0	210	0	0	1-8	1-8	1-8	1-8
D	42	0	47	0	0	1-8	1-8	1-8	1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	267	189 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0
C	145	117 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX.		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MAX.	MEMB.	FORCE (LBS)	MAX	MAX
FR-TO		FROM	TO		LENGTH	FR-TO			
F-B	-338 / 0	0.0	0.0	0.04 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 45	-91.8	-91.8	0.13 (1)	10.00				
B-C	0 / 0	-91.8	-91.8	0.33 (1)	10.00				
F-E	0 / 0	-18.5	-18.5	0.11 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.11 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.02")

CSI: TC=0.33/1.00 (B-C:1) , BC=0.11/1.00 (D-E:4) ,
WB=0.00/1.00 (B-E:1) , SSI=0.12/1.00 (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)	(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= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)

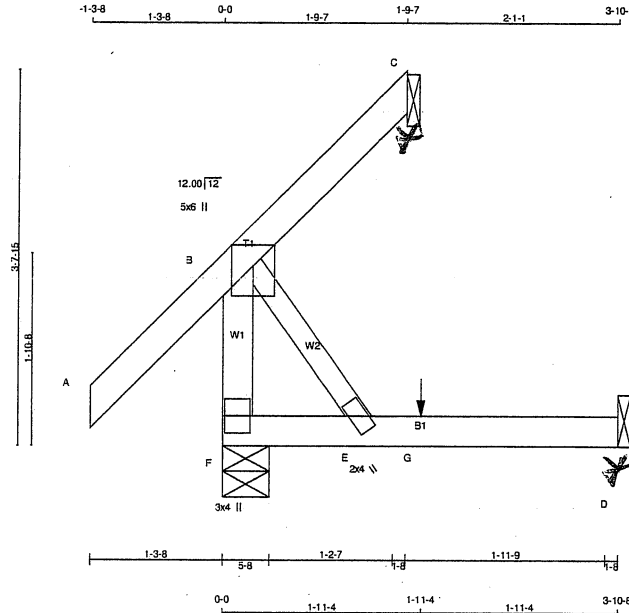


Structural component only
DWG# T-2115682

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	C1	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:41:45 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-OKyr1NbnxjKHX1iBuVdBid7BCXbf2D9RfG7zCwq



TOTAL WEIGHT = 2 X 13 = 26 lb

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+p	MT20	5.0	6.0	Edge
E	BMW+w	MT20	2.0	4.0	
F	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
F	296	0	296	0	5-8	5-8
C	32	0	32	0	1-8	1-8
D	36	0	40	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		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	208	145 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0
C	22	18 / -28	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	29	0 / 0	0 / 0	0 / 0	0 / 0	29 / 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		MAX.	MEMB.	WEBS		MAX.
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	CS1 (LC)		MAX. FACTORED	FORCE	CS1 (LC)
FR-TO		(LBS)	(PLF)						
F-B	-260 / 0		0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 45		-91.8	-91.8	0.15 (5)	10.00			
B-C	-35 / 0		-91.8	-91.8	0.14 (5)	6.25			
F-E	0 / 0		-18.5	-18.5	0.07 (4)	10.00			
E-G	0 / 0		-18.5	-18.5	0.08 (4)	10.00			
G-D	0 / 0		-18.5	-18.5	0.08 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-11-4	1	1	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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 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) = $L/999$ (0.01")

CSI: TC=0.15/1.00 (A-B:5), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.13 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)

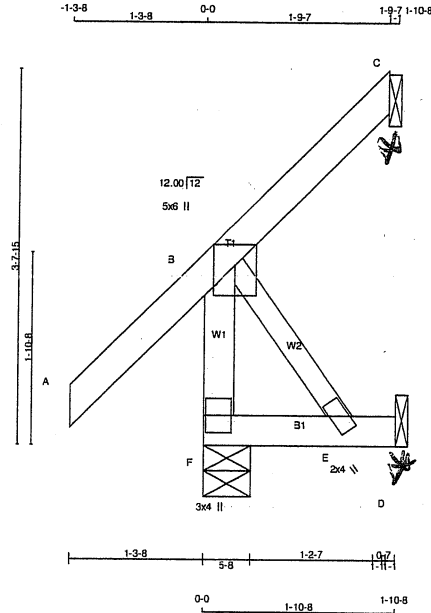


Structural component only
DWG# T-2115607

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	C2	8	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:41:46 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-sWWDEjCp1w9yRWDGuP8AOFK7XYPG2vCSpAdoSzCvvp



Scale = 1/21.5

TOTAL WEIGHT = 8 X 11 = 85 lb

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	5.0	6.0	Edge
E	BMW+w	MT20	2.0	4.0	
F	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
F	277	0	277	0	5-8	5-8
C	32	0	32	0	1-8	1-8
D	17	0	19	0	1-8	1-8

SEE MITK 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		MAX./MIN. COMPONENT REACTIONS				DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	WIND		
F	193	145 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0	0 / 0
C	22	18 / -28	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	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

TOTAL LOAD CASES: (5)

MEMB.	CHORDS			MAX. MEMB. FORCE (LBS)	WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO				
F-B	-260 / 0	0.0	0.0 0.03 (1)	7.81	0 / 0	0.00 (1)	
A-B	0 / 45	-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 0.02 (4)	10.00			
E-D	0 / 0	-18.5	-18.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, 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=0.13/1.00 (A-B:1), BC=0.02/1.00 (E-F:4),
WB=0.00/1.00 (B-E:1), SSI=0.07/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

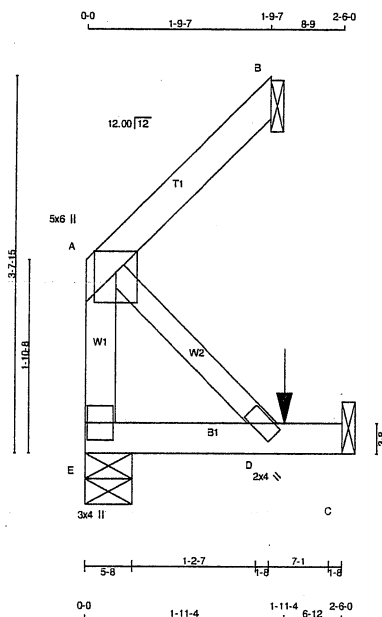


Structural component only
DWG# T-2115608

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411168	C4	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 16:41:49 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-H5BMtlet?ylkpuFox0zro1tt7karTPee8nPnZCvwm



TOTAL WEIGHT = 2 X 9 = 19 lb

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	5.0	6.0	Edge
D	BMW+w	MT20	2.0	4.0	
E	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
E	106	0	106	0	5-8	5-8
B	82	0	82	0	1-8	1-8
C	25	0	28	0	1-8	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	76	46 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0
B	56	46 / 0	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
C	20	0 / 0	0 / 0	0 / 0	0 / 0	20 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		VERT. LOAD	FACTORED		MAX. MEMB.	WEBS	
	FORCE (LBS)	(PLF)		LC1	MAX		FORCE (LBS)	MAX
FR-TO					CSI (LC)	UNBRAC LENGTH	FR-TO	CSI (LC)
E-A	-82 / 0	0.0	0.0	0.01 (1)	7.81	A-D	0 / 0	0.00 (1)
A-B	0 / 0	-91.8	-91.8	0.05 (1)	10.00			
E-D	0 / 0	-18.5	-18.5	0.04 (4)	10.00			
D-C	0 / 0	-18.5	-18.5	0.03 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	1-11-4	-2	-2	---	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 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=0.05/1.00 (A-B:1), BC=0.04/1.00 (D-E:4),
WB=0.00/1.00 (A-D:1), SSI=0.05/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.04 (A) (INPUT = 0.90)
JSI METAL= 0.02 (A) (INPUT = 1.00)



Structural component only
DWG# T-2115610

Tamarack Roof Truss, Burlington



TOTAL WEIGHT = $2 \times 11 = 21$ lb

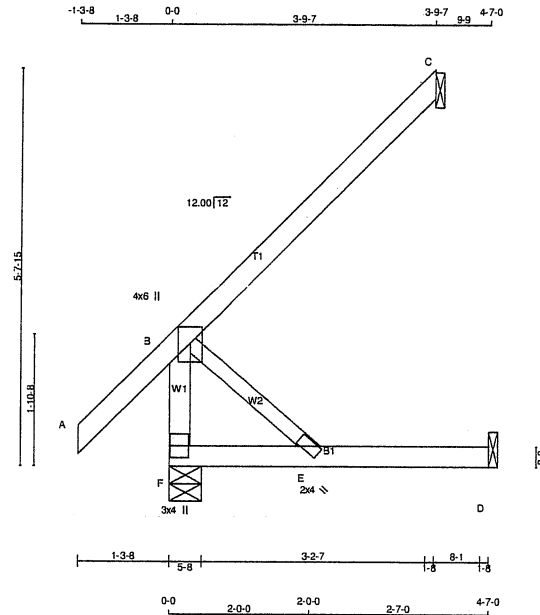
Structural component only
DWG# T-2115611

JSI GRIP= 0.06 (A) (INPUT = 0.90)
JSI METAL= 0.02 (A) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411170	C70	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:04 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-xZ7zarOsfip?S6aDkKapM5b6zLNzLakPibgolzCv1H



Scale = 1:31.4

TOTAL WEIGHT = 17 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	6.0	2.75 2.00
E	BMV+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		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
F	344	0	344	0	5-8	5-8		
C	174	0	174	0	1-8	1-8		
D	42	0	47	0	1-8	1-8		

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE				
F	242	168 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0	0 / 0
C	120	97 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	0 / 0	34 / 0	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 = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD LC1	MAX	CS1 (LC)	MEMB.	FORCE (LBS)	MAX	CS1 (LC)
FR-TO					FR-TO			
F-B	-302 / 0	0.0	0.0	0.03 (1)	B-E	0 / 0	0.00 (1)	
A-B	0 / 45	-91.8	-91.8	0.13 (1)				
B-C	0 / 0	-91.8	-91.8	0.22 (1)				
F-E	0 / 0	-18.5	-18.5	0.11 (4)				
E-D	0 / 0	-18.5	-18.5	0.11 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CS1: TC=0.22/1.00 (B-C:1), BC=0.11/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

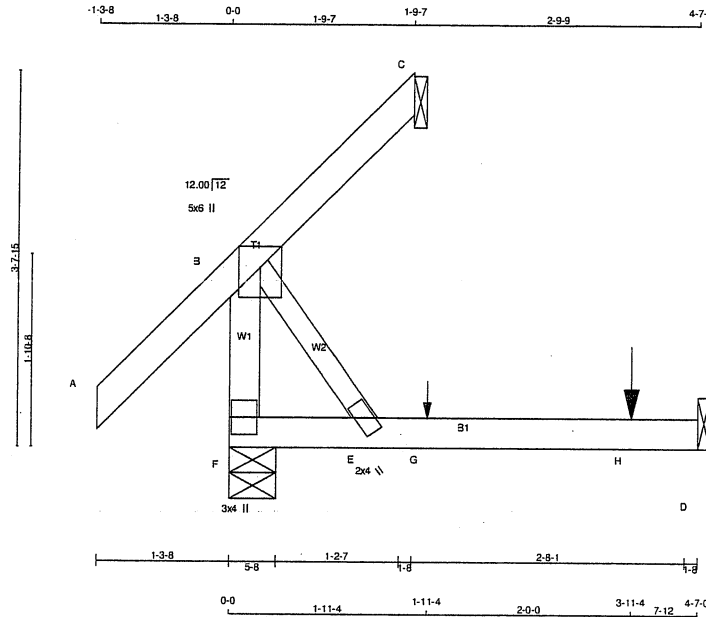
JSI GRIP= 0.20 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115679

JOB NAME 411170	TRUSS NAME C71	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 17:42:05 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNrZ_BuP-PmhMnBPUQtgdbgmSrPLZdnLMhaioqteMKEKBzCv1G



Scale = 1/2\"/>

TOTAL WEIGHT = 14 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	5.0	6.0	Edge
E	BMW+w	MT20	2.0	4.0	
F	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	REQRD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
F	303	0	303	0	5-8
C	32	0	32	0	1-8
D	44	0	50	0	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	213	145 / 0	0 / 0	0 / 0	0 / 0	68 / 0	0 / 0
C	22	18 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 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		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
F-B	-260 / 0	0.0	0.0	0.03 (1)	7.81
A-B	0 / 45	-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	0.09 (4)	10.00
E-G	0 / 0	-18.5	-18.5	0.12 (4)	10.00
G-H	0 / 0	-18.5	-18.5	0.12 (4)	10.00
H-D	0 / 0	-18.5	-18.5	0.12 (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	-2	-2	---	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 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 (0.02")

CSI: TC=0.13/1.00 (A-B:1), BC=0.12/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.07/1.00 (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.

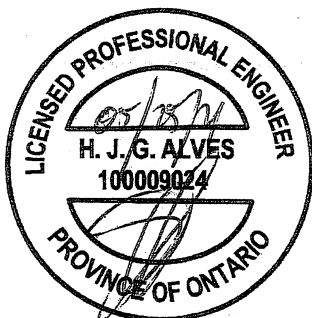
NAIL VALUES

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

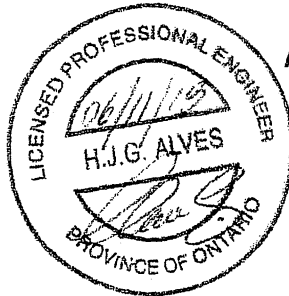
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.13 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115680

Structural component only
DWG# T-2115681



Alves Engineering Services Inc.

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

RESPONSABILITIES

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

SPECIFICATIONS

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

T-1800218

Feb 09, 2018

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

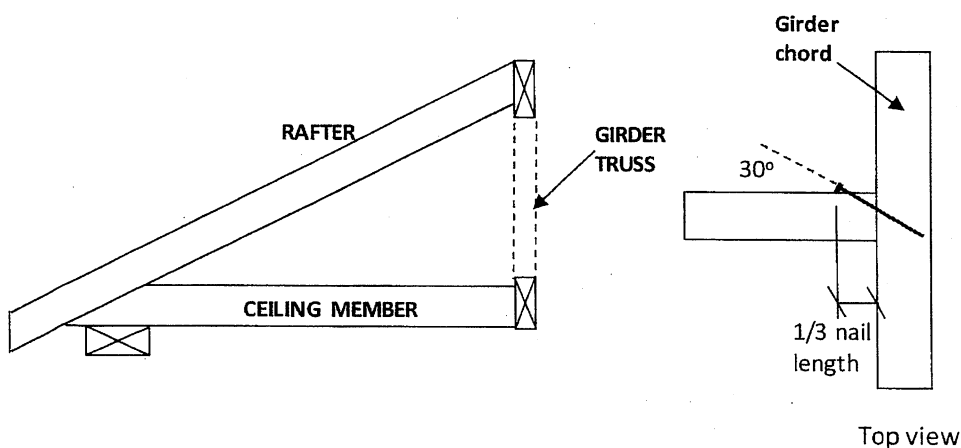


Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss

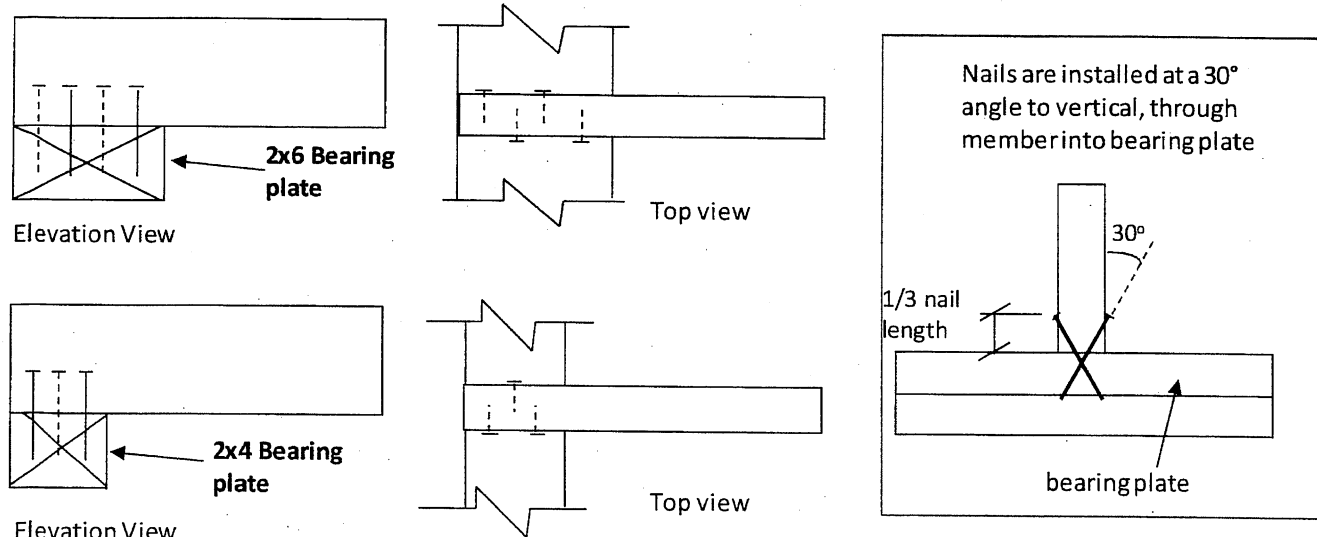
PEO
Certificate No. 10889485



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_D 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.

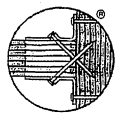
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 18–20.

Installation:

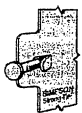
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

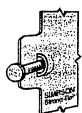
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on pp. 105–107.



Double-Shear
Nailing
Top View

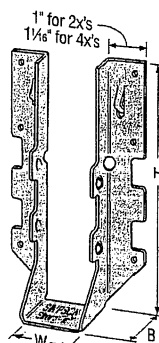
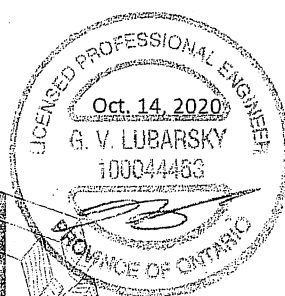
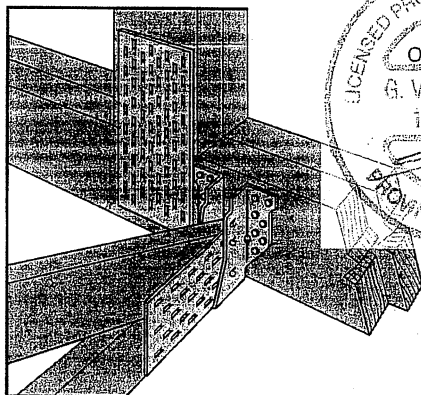


Double-Shear
Nailing
Side View;
Do not
bend tab

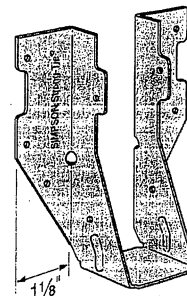


Dome Double-Shear
Nailing
Side View
(available on
some models)

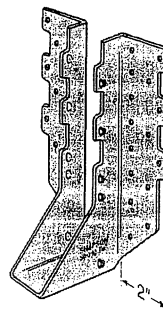
**Typical HUS26
Installation
with Reduced
Heel Height**
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



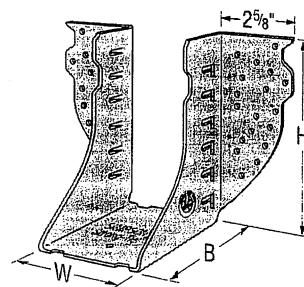
LUS28



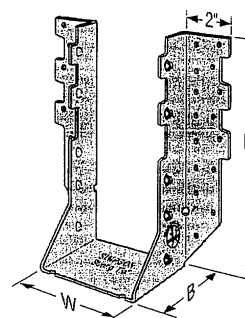
LU26L



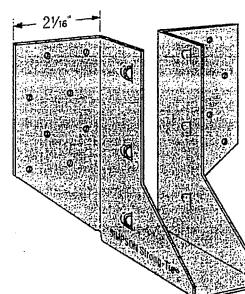
HUS210
(HUS26, HUS28,
and HHUS similar)



HGUS28-2



HHUS210-2



LJS26DS

LUS - Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: 18 gauge

Finish: G90 galvanized

Design:

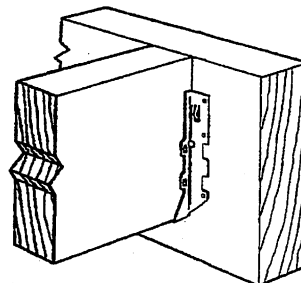
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

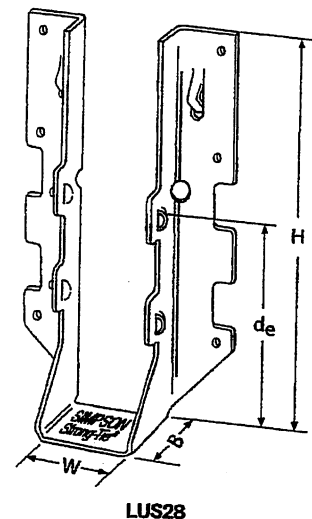
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire,
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

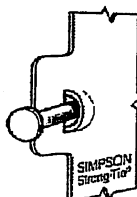


Typical LUS Installation

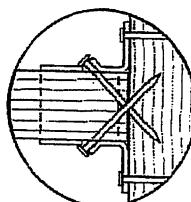


Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _s ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _p =1.15)	(K _p =1.00)	(K _p =1.15)	(K _p =1.00)
LUS24	18	1 1/8	3 1/4	1 3/4	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3 1/8	3 1/4	2	1 13/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1 1/8	4 3/4	1 3/4	3 3/8	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3 1/8	4 3/4	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4 3/8	4 3/8	2	3 1/4	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1 1/8	6 3/4	1 3/4	3 3/8	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4 3/8	6 1/4	2	3 1/4	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1 1/8	7 13/16	1 3/4	3 3/8	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4 3/8	8 3/8	2	5 1/4	(8) 16d	(6) 16d	2580	3345	2320	2375

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



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



Double Shear Nailing 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.

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T-SPECLUS20 3/20 exp. 6/22

(800) 999-5099
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:

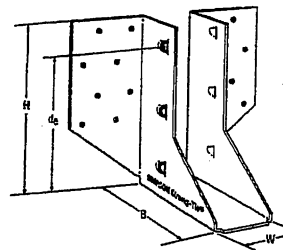
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

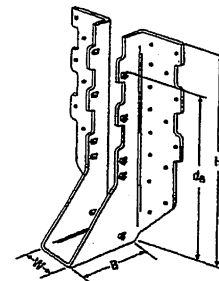
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

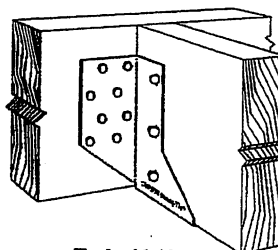
- See current catalogue for options



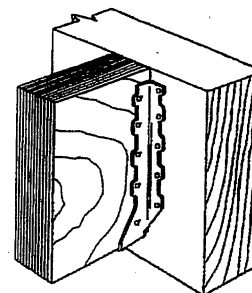
LJS26DS



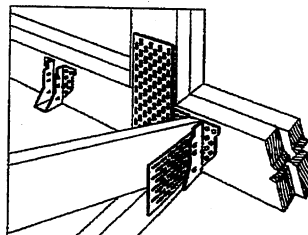
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



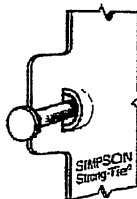
Typical HUS
Installation



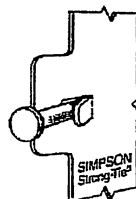
Typical HUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _u =1.15) lb.	Normal (K _n =1.00) lb.	Uplift (K _u =1.15) lb.	Normal (K _n =1.00) lb.
LJS26DS	18	1 1/16	5	3 1/2	4 5/8	(16) 16d	(8) 16d	2055	4265	1460	4115
HUS26	16	1 1/8	5 3/8	3	3 15/16	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1 1/8	7 1/2	3	6 3/32	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1 1/8	9 1/2	3	7 31/32	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	1 11/16	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

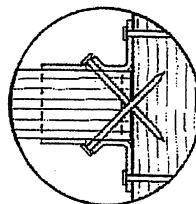
1. d_e is the distance from the seat of the hanger to the highest joist nail.



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



Double Shear Nailing 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.

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T-SPECHUS20 3/20 exp. 6/22

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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:

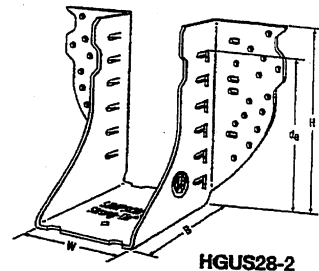
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

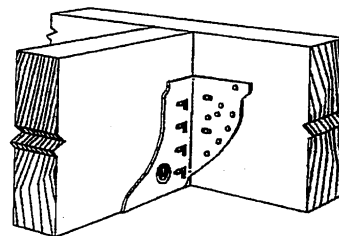
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

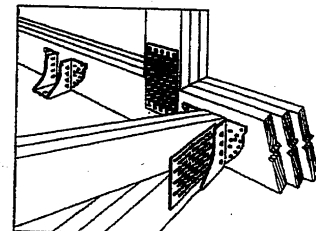
- See current catalogue for options



HGUS28-2



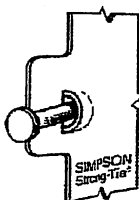
Typical HGUS Installation



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

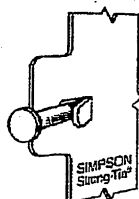
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d ₁ ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
HGUS26	12	1½	5¾	5	4½	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6½	5½	4	4½	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1½	7½	5	6½	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6½	7½	4	6½	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210	12	1½	9½	5	7½	(46) 16d	(16) 16d	3535	11070	2510	8090
HGUS210-2	12	3½	9½	4	8½	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS210-3	12	4½	9½	4	8½	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6½	9½	4	8½	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6½	10½	4	10½	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6½	12½	4	11½	(66) 16d	(22) 16d	10130	16400	7195	11645

1. d₁ is the distance from the seat of the hanger to the highest joist nail.

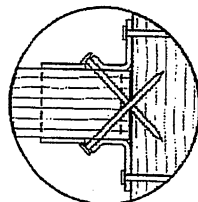


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

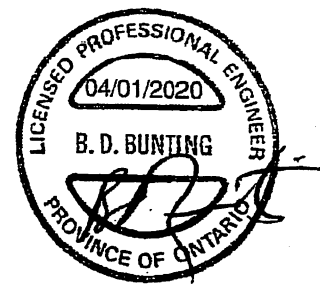
U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



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.

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T-SPECHGUS20 3/20 exp. 6/22

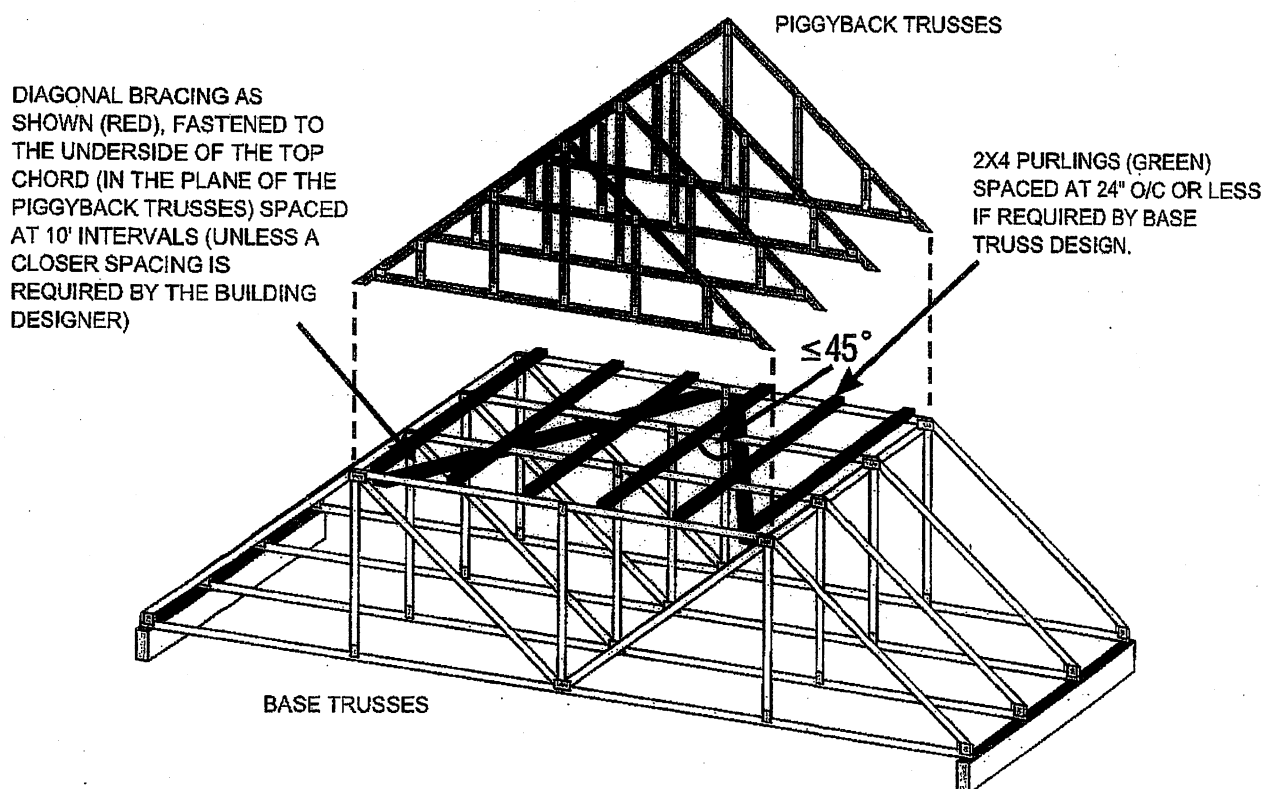
(800) 999-5099
strongtie.com

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

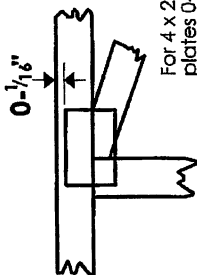
Disclaimer:

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.

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

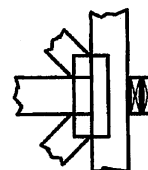
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



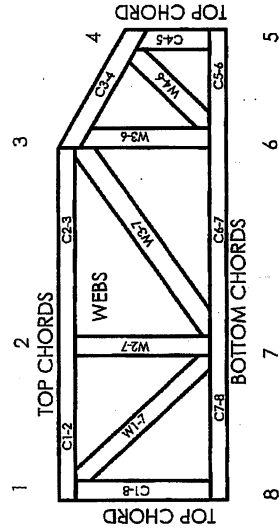
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

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

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Mitek
POWER TO PERFORM.™

Mitek Engineering Reference Sheet: MI-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 TIPC.
7. Design assumes trusses will be suitably protected from the environment in accord with TIPC.
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 TIPC Quality Criteria.