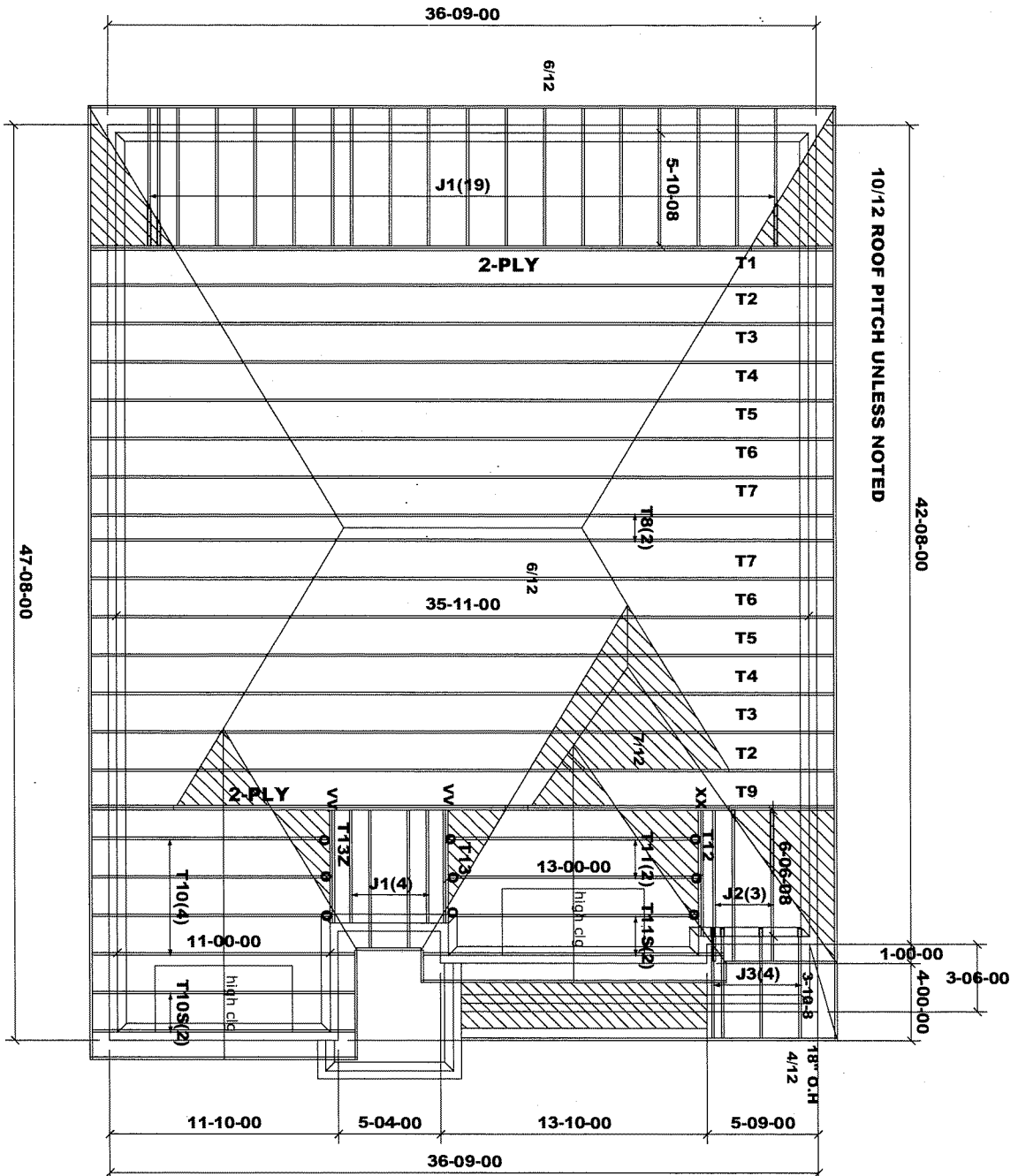




ASPHALT SHINGLES
FINISHED OVERHANG: 12"
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD
HEEL: R.T.M.C.

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 - (W)
LUS26-2 - (W)
HGUS26-2 - (XX)

 **DENOTES:**
CONVENTIONAL
FRAMING

TAMARACK ROOF TRUSSES INC.

Job Track: **51004**

Plan Log: **203059**

Layout ID: **418971**

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

Project: **CENTREFIELD**

Date: **5/26/2021**

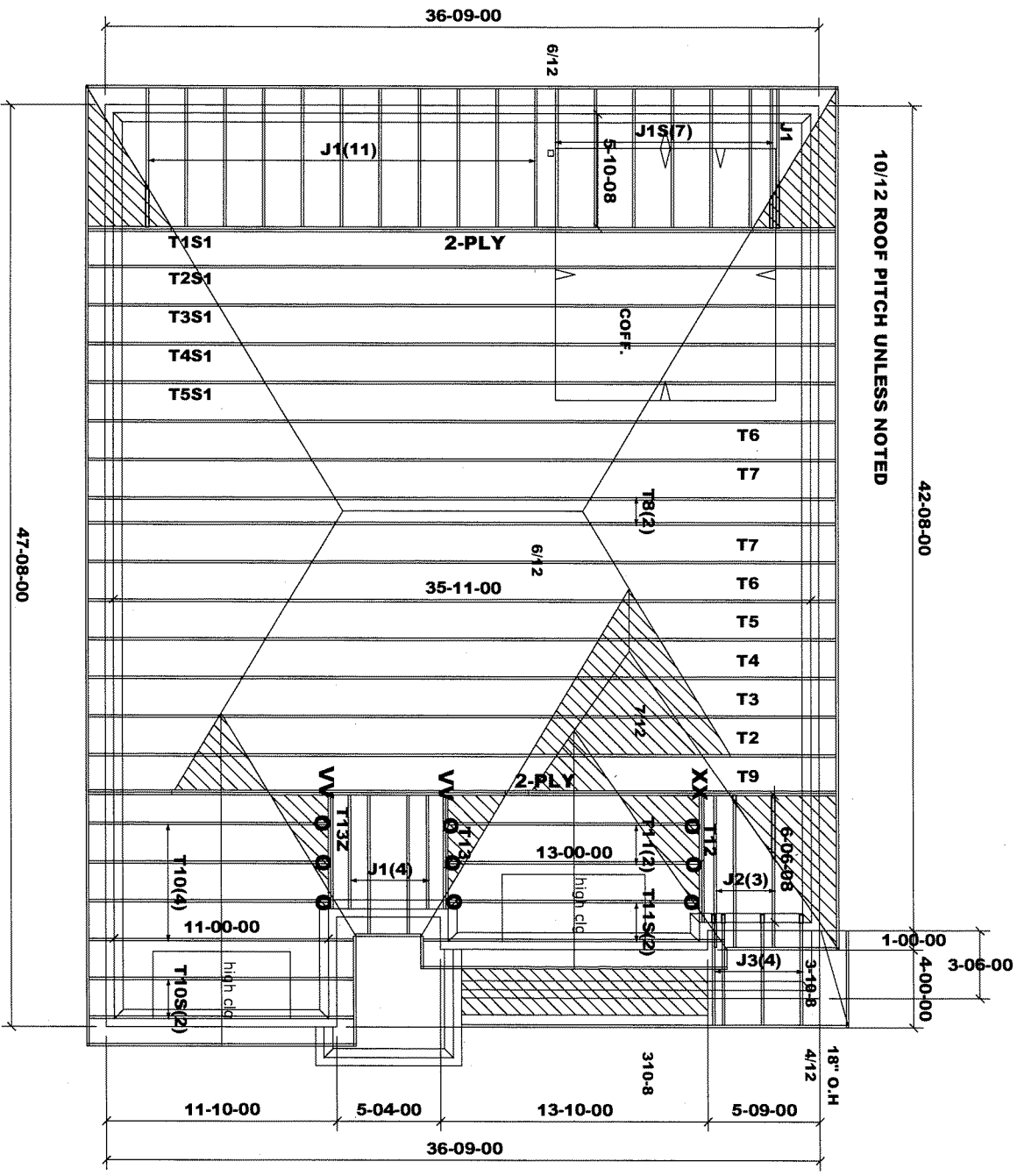
Sales: **Mario DiCiano**

Designer: **JG**

Model / Elevation: **UNIT-4502 / A-STD. OR 5 BRM**

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.

Milex ver 6.4.2.286



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: RESIDENTIAL / PART: 9
Ss = 31.35 psf | Sr = 8.4 psf

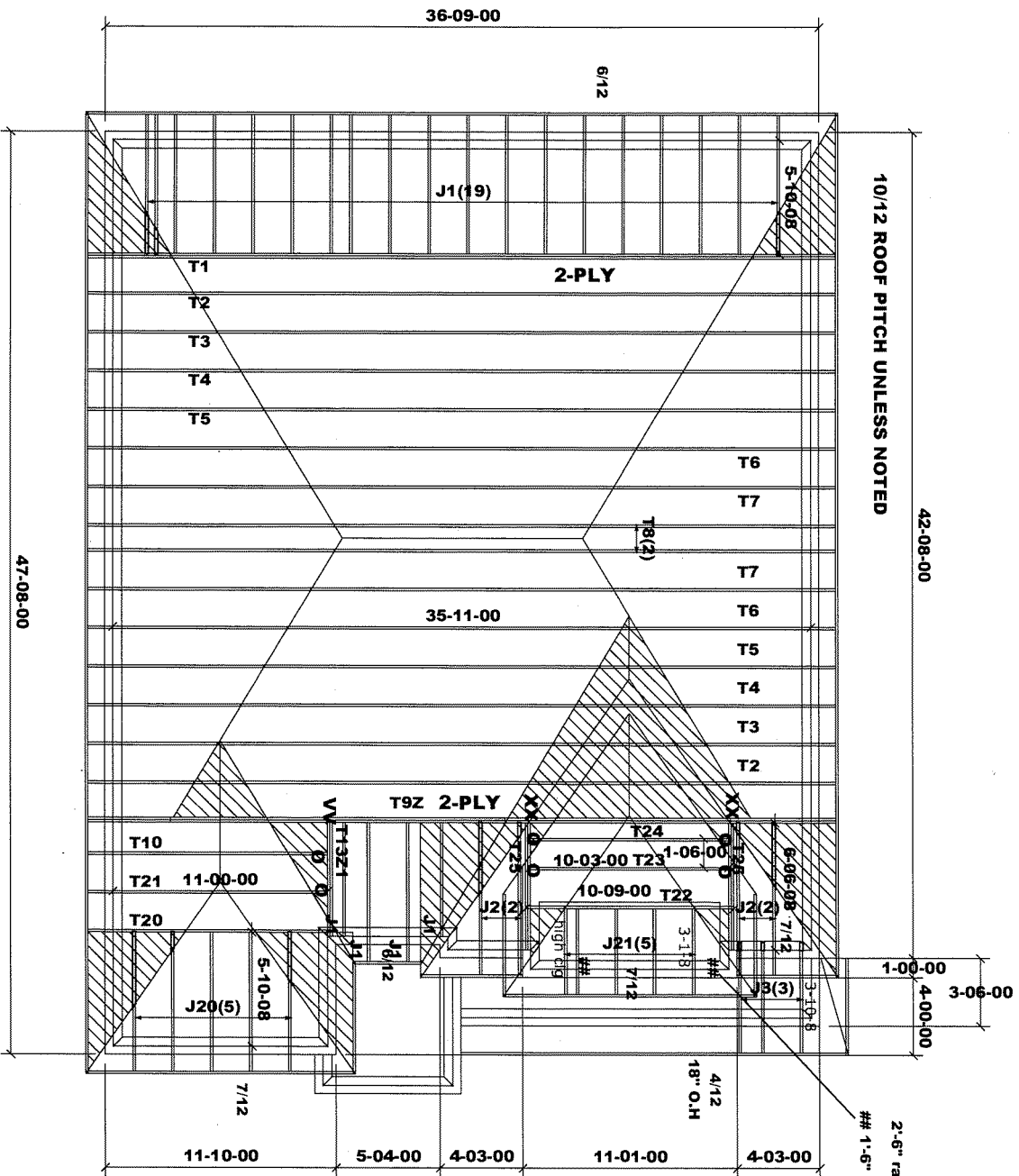
DESIGN LOADS:
TCSL = 25.6 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

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

 **DENOTES:**
CONVENTIONAL
FRAMING

		Job Track: 51004 Plan Log: 203059 Layout ID: 410966		Builder / Location: ROYAL PINE HOMES / RICHMOND HILL Project: CENTREFIELD Date: 5/26/2021 Sales: Mario DiCano Designer: JG		Model / Elevation: UNIT-4502 / A-5 BRM. WITH OPT. COFF.	
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.							
Mitek ver 8.4.2.286							

M14003



2'-6" raised fascia
1'-6" raised plate & ceiling

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

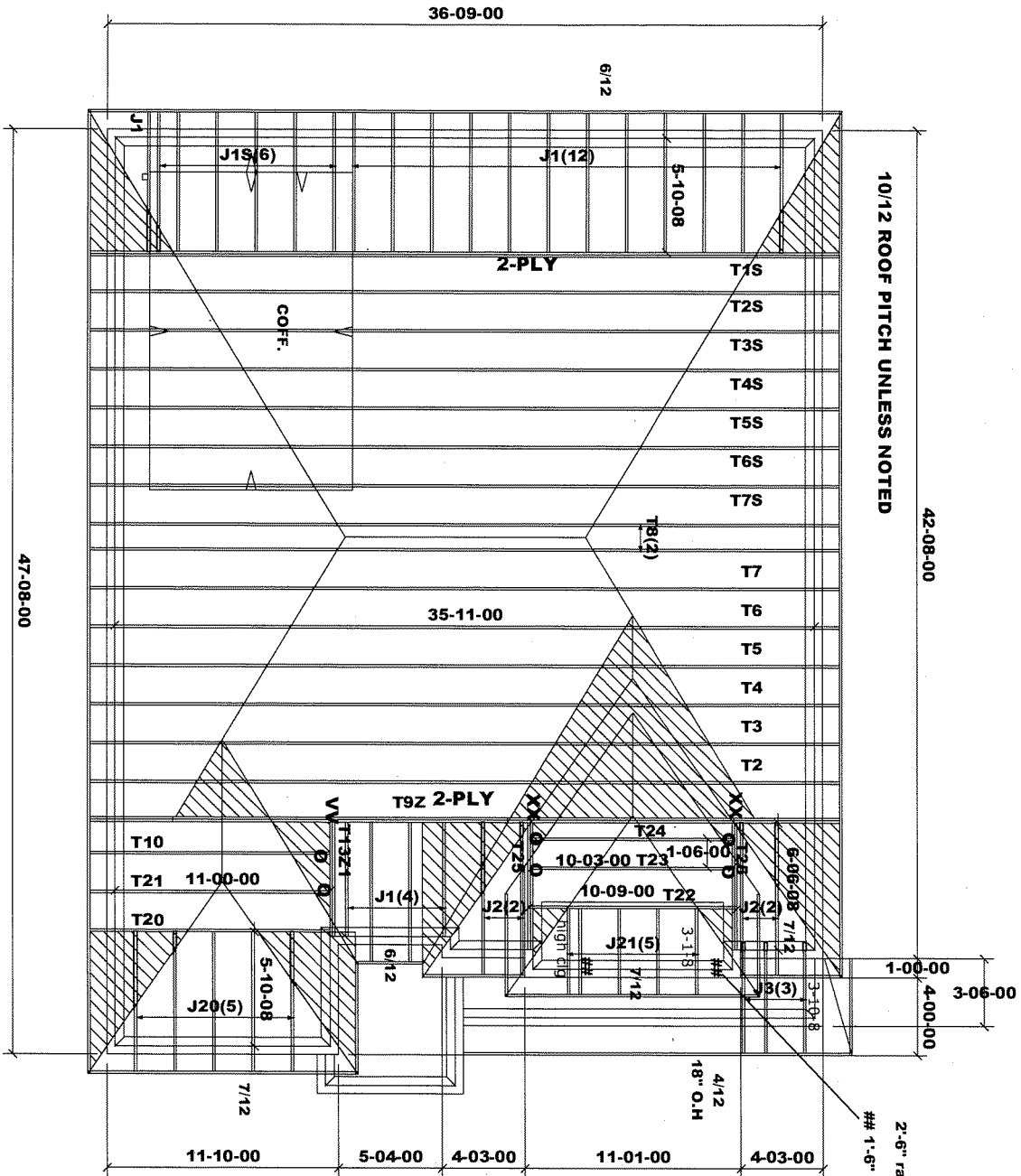
DESIGN LOADS:
TCSL = 25.6 psf
TCOL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

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

 DENOTES:
CONVENTIONAL
FRAMING

M14003

		Job Track: 51004		Builder / Location: ROYAL PINE HOMES / RICHMOND HILL		Model / Elevation: UNIT-4502 / B-STD. OR 5 BRM	
Plan Log: 203059		Project: CENTREFIELD		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.		Mink ver 8.4.2.286	
Layout ID: 418972		Date: 5/26/2021		Sales: Mario DiCano		Designer: JG	



2'-6" raised fascia
1'-6" raised plate & ceiling

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 - (W)
LUS26-2 - (W)
HGUS26-2 (XX)

 DENOTES:
CONVENTIONAL
FRAMING

M4003

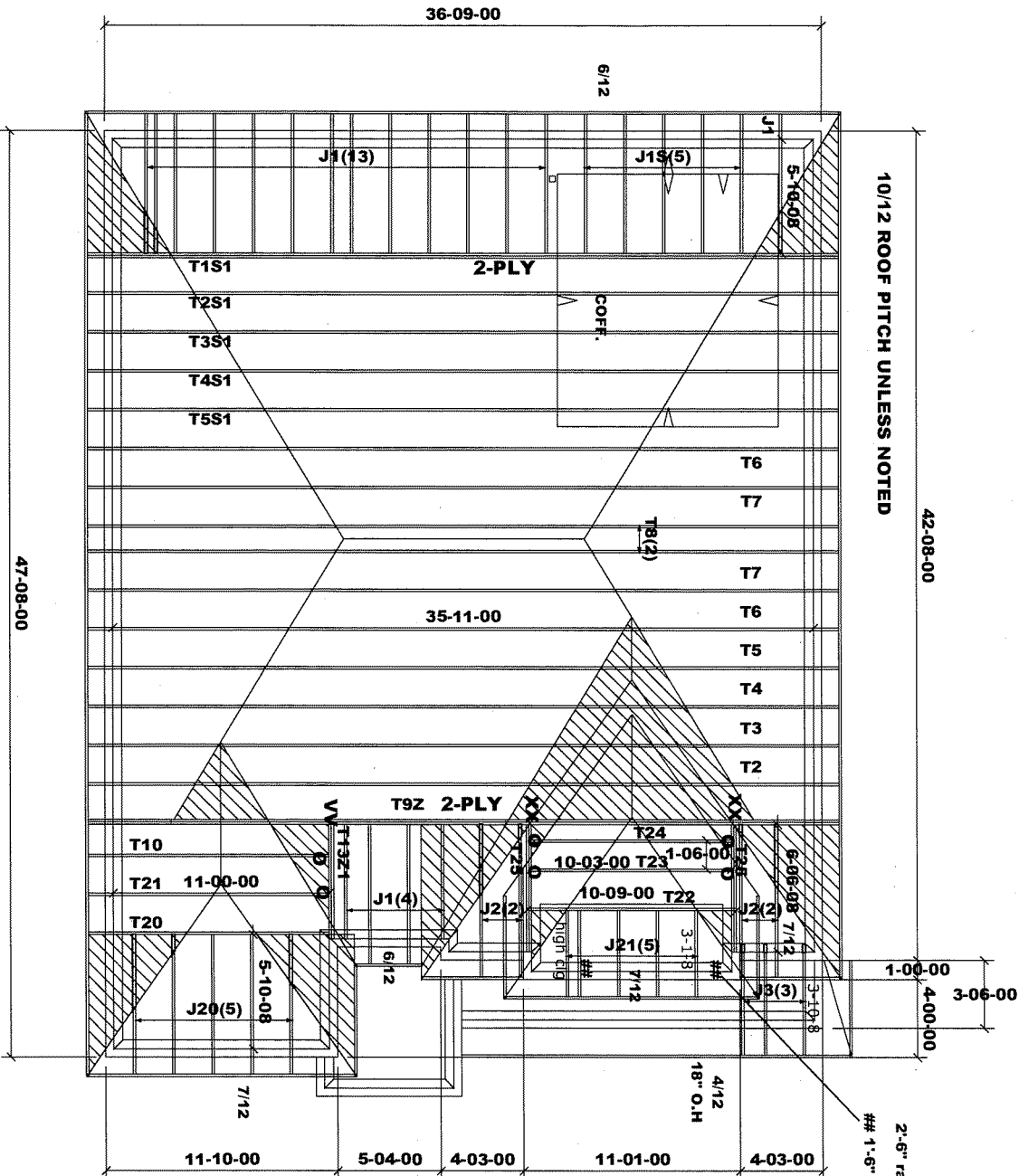


Job Track: 51004
Plan Log: 203059
Layout ID: 410967

Builder / Location:
ROYAL PINE HOMES / RICHMOND HILL
Project: CENTREFIELD
Date: 5/26/2021 Sales: Mario DiCano Designer: JG

Model / Elevation:
UNIT-4502 / B-STD.WITH OPT.COFF

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.



10/12 ROOF PITCH UNLESS NOTED

2-6" raised fascia
1-6" raised plate & ceiling

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)
LUS26-2 - (VV)
HGUS26-2 (XX)

 DENOTES:
CONVENTIONAL
FRAMING

TAMARACK ROOF TRUSSES, INC.

Job Track: **51004**

Plan Log: **203059**

Layout ID: **410968**

Builder / Location:

ROYAL PINE HOMES / RICHMOND HILL

Project: **CENTREFIELD**

Date: 5/26/2021 Sales: Mario DiCano Designer: JG

Model / Elevation:

UNIT-4502 / B-5 BRM WITH OPT.COFF.

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.

Milex ver 8.4.2.286



Job Track: **51004**

Plan Log: **203059**

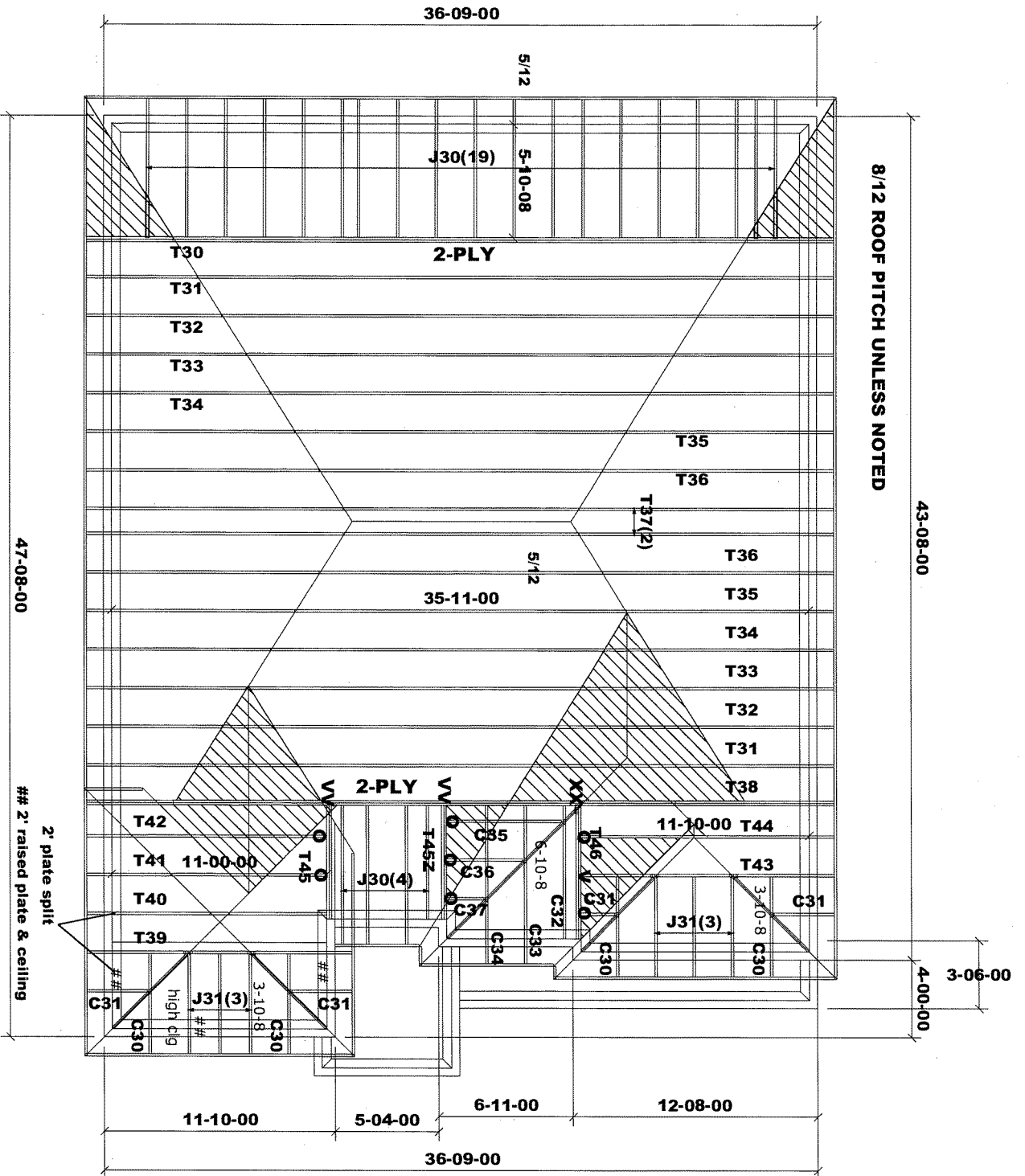
Layout ID: **418973**

Builder / Location:		ROYAL PINE HOMES / RICHMOND HILL	
Project:		CENTREFIELD	
Date:	5/26/2024	Sales:	Marin DiCanno
		Designer:	JG
		THESE DRAWINGS OR REDISTRIBUTE TAMARACK	

Model / Elevation:

UNIT-4502 / C-STD.OR 5 BRM

MITOK ver 8.4.3.28E



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. (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 ps
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

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

DENOTES:
CONVENTIONAL
FRAMING

8/12 ROOF PITCH UNLESS NOTED

43-08-00

4-00-00

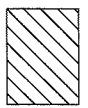
ASPHALT SHINGLES
FINISHED OVERHANG: 12"
2X6 EXTERIOR WALLS
2X6 FASCIA BOARD
HEEL: R.T.M.C.

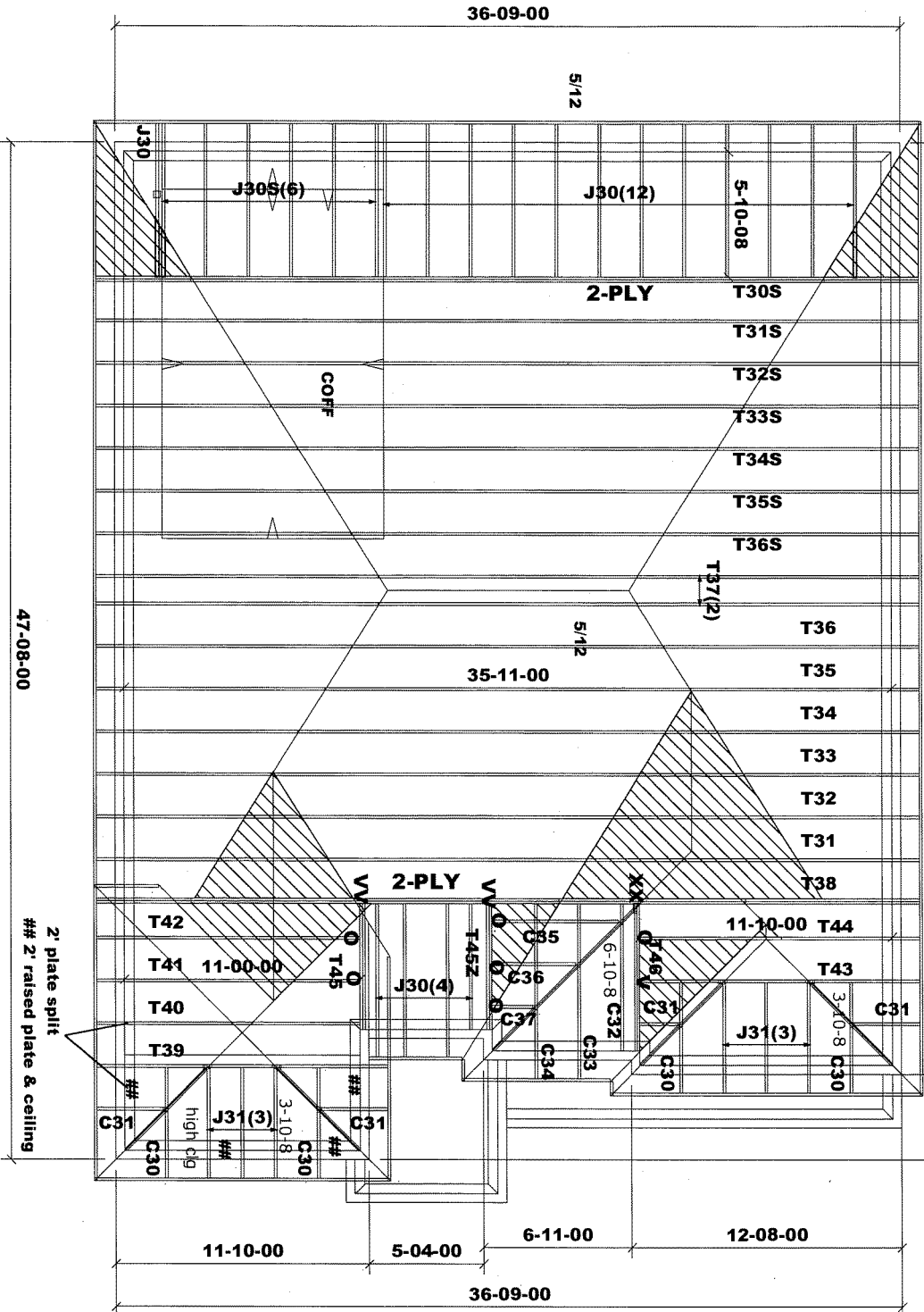
All conventional framing to conform with Part 9 of O.B.C. 2012 (2019 amendment). Roof rafters that cross over or meet trusses to be min. 2x4 SPF #2 @ 24" o/c with a vertical post to the truss at each cross point. Vertical posts longer than 6' to have lateral bracing so that the distance between the post 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

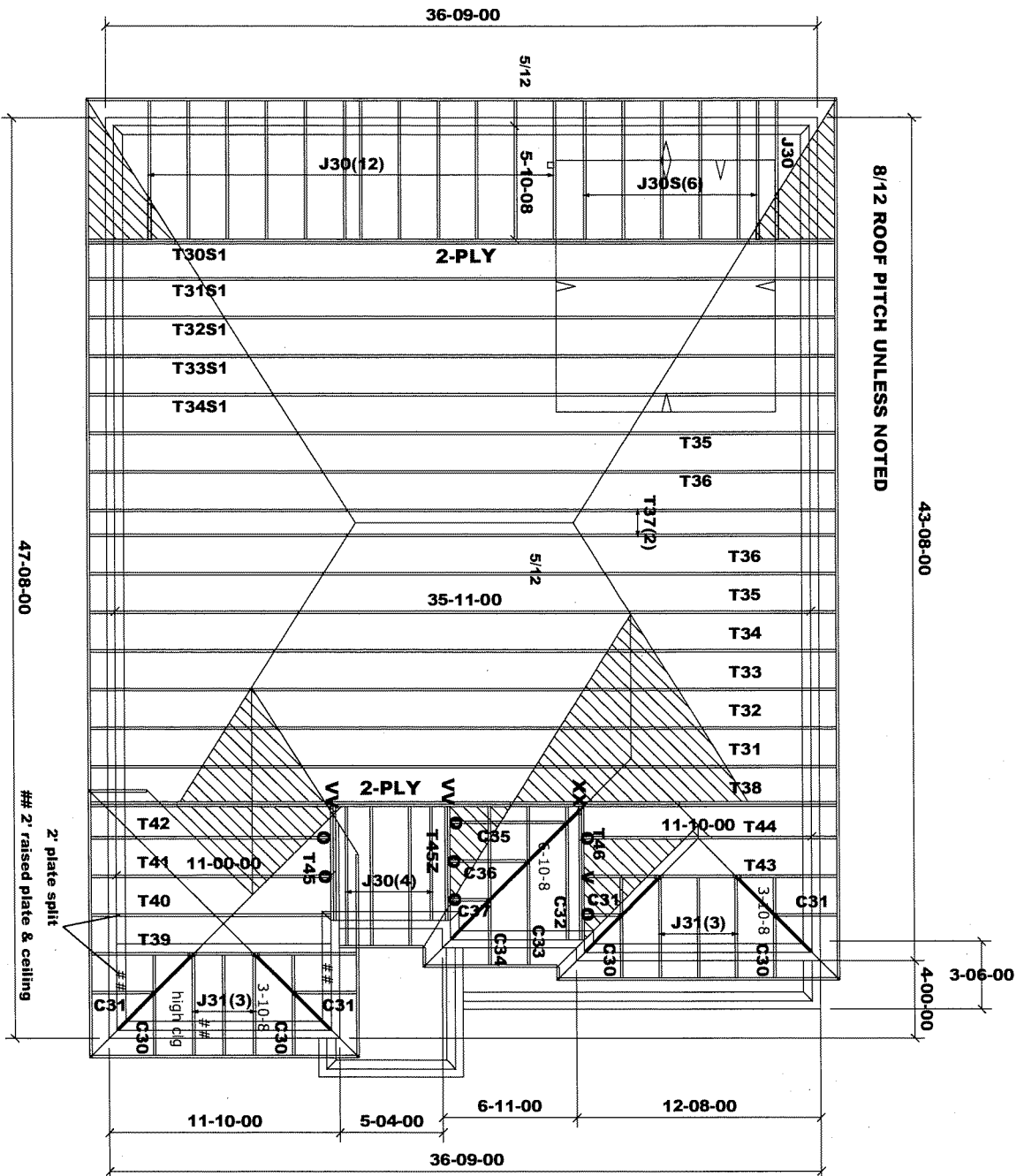
HARDWARE:
LUS24 - (O)
LUS26DS - (V)
LUS26-2 - (VV)
HGUS26-2 - (XX)

 **DENOTES:**
CONVENTIONAL
FRAMING



M14003

		Job Track: 51004 Plan Log: 203059 Layout ID: 410969	
Builder / Location: ROYAL PINE HOMES / RICHMOND HILL		Model / Elevation: UNIT-4502 / C-STD.WITH OPT.COFF.	
Project: CENTREFIELD Date: 5/26/2021 Sales: Mario DiCiano Designer: JG			
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. Miek 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: RESIDENTIAL | PART: 9
Ss = 31.35 psf | Sr = 8.4 psf

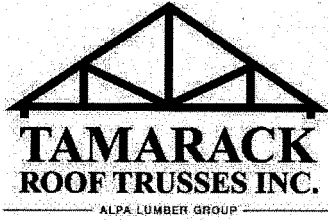
DESIGN LOADS:
TCSL = 25.6 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

HARDWARE:
LUS24 - (O)
LUS26DS - (W)
LUS26-2 - (W)

 **DENOTES:**
CONVENTIONAL
FRAMING

M14003

		Job Track: 51004 Plan Log: 203059 Layout ID: 410970		Builder / Location: ROYAL PINE HOMES / RICHMOND HILL		Model / Elevation: UNIT-4502 / C-5 BRM WITH OPT. COFF.	
Project: CENTREFIELD Date: 5/26/2021 Sales: Mario DiCaro Designer: JG		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.					
Mitek ver 8.4.2.286							

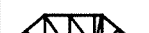


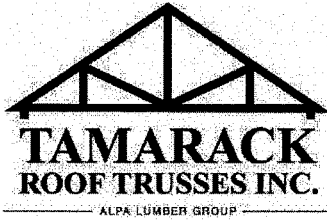
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT-4502
 Lot #:
 Elevation: B-STD.WITH OPT.COFF

Job Track: 51004
 PlanLog: 203059
 Layout ID: 410967
 Ref #
 Page: 1 of 3
 Date: 05/26/2021
 Designer:
 Sales Rep: Mario DiCano

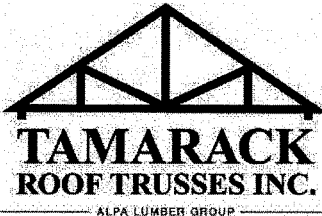
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1S Hip Girder	10 /12	35-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	396.4 251.33		
	1	T2 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	148.9 93.50		
	1	T2S Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	162.94 105.17		
	1	T3 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	150.38 95.00		
	1	T3S Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	164.05 104.50		
	1	T4 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	163.65 102.17		
	1	T4S Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	171.65 108.33		
	1	T5 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	161.59 101.00		
	1	T5S Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	179.97 115.83		
	1	T6 Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	183.7 115.00		
	1	T6S Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	193.96 123.33		
	1	T7 Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	175.56 110.00		
	1	T7S Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	199.53 125.83		
	2	T8 Hip	10 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	384.63 238.00		

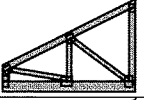
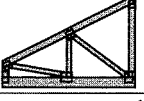
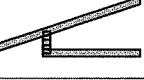
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST									
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT-4502 Lot #: Elevation: A-STD.OR 5 BRM					Job Track: 51004 PlanLog: 203059 Layout ID: 418971 Ref # Page: 1 of 2 Date: 05/26/2021 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 2-ply	T1 Hip Girder	10 /12	35-11-00	4-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	371.79 222.00		
	2	T2 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	297.79 187.00		
	2	T3 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	300.76 190.00		
	2	T4 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	327.29 204.33		
	2	T5 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	323.18 202.00		
	2	T6 Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	367.4 230.00		
	2	T7 Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	351.11 220.00		
	2	T8 Hip	10 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	384.63 238.00		
	1 2-ply	T9 Roof Special Girder	10 /12	35-11-00	5-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	398.56 245.00		
	4	T10 Common	10 /12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	196.37 129.33		
	2	T10S Roof Special	10 /12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	116.07 78.33		
	2	T11 Common	10 /12	13-00-00	7-00-11	2 x 4		1-07-11 1-07-11	116.53 73.67		
	2	T11S Roof Special	10 /12	13-00-00	7-00-11	2 x 4		1-07-11 1-07-11	130.91 88.67		
	1 2-ply	T12 Jack-Closed Girder	7 /12	6-06-08	5-01-04	2 x 4 2 x 6		1-03-07 5-01-04	67.4 42.67		

 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT-4502 Lot #: Elevation: A-STD.OR 5 BRM	Job Track: 51004 PlanLog: 203059 Layout ID: 418971 Ref # Page: 2 of 2 Date: 05/26/2021 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 2-ply	T13 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	1 2-ply	T13Z Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	23	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	386.27 245.33		
	3	J2 Jack-Open	7 /12	6-06-08	5-01-04	2 x 4	1-03-08	1-03-07 5-01-04	56.81 36.00		
	4	J3 Jack-Open	4 /12	3-10-08	2-04-11	2 x 4	1-09-08	1-01-03 2-04-11	48.09 32.00		

TOTAL # TRUSS= 64 TOTAL BFT OF ALL TRUSSES= 2738.33 BFT. TOTAL WEIGHT OF ALL TRSSES 4356.25 LBS

HARDWARE

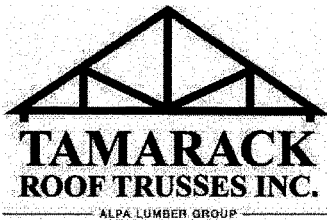
QTY	TYPE	MODEL	LENGTH
9	Hardware	LUS24	
2	Hardware	LUS26-2	
1	Hardware	HGUS26-2	

TOTAL NUMBER OF ITEMS= 12

DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	410965
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	1 of 3
	Lot #:		Date:	05/26/2021
	Elevation:	A-STD.WITH OPT.COFF	Designer:	
		Sales Rep:	Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1S Hip Girder	10 /12	35-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	396.4 251.33		
	1	T2 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	148.9 93.50		
	1	T2S Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	162.94 105.17		
	1	T3 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	150.38 95.00		
	1	T3S Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	164.05 104.50		
	1	T4 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	163.65 102.17		
	1	T4S Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	171.65 108.33		
	1	T5 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	161.59 101.00		
	1	T5S Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	179.97 115.83		
	1	T6 Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	183.7 115.00		
	1	T6S Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	193.96 123.33		
	1	T7 Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	175.56 110.00		
	1	T7S Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	199.53 125.83		
	2	T8 Hip	10 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	384.63 238.00		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER						Job Track: 51004	
	Builder: ROYAL PINE HOMES						PlanLog: 203059	
	Project: CENTREFIELD						Layout ID: 410965	
	Location: RICHMOND HILL						Ref #	
	Model: UNIT-4502						Page: 2 of 3	
Lot #:						Date: 05/26/2021		
Elevation: A-STD.WITH OPT.COFF						Designer:		
						Sales Rep: Mario DiCano		

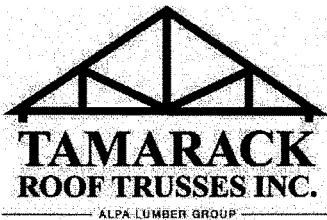
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T9 Roof Special Girder	10 / 12	35-11-00	5-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	398.56 245.00		
	4	T10 Common	10 / 12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	196.37 129.33		
	2	T10S Roof Special	10 / 12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	116.07 78.33		
	2	T11 Common	10 / 12	13-00-00	7-00-11	2 x 4		1-07-11 1-07-11	116.53 73.67		
	2	T11S Roof Special	10 / 12	13-00-00	7-00-11	2 x 4		1-07-11 1-07-11	130.91 88.67		
	1 2-ply	T12 Jack-Closed Girder	7 / 12	6-06-08	5-01-04	2 x 4 2 x 6		1-03-07 5-01-04	67.4 42.67		
	1 2-ply	T13 Jack-Closed Girder	6 / 12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	1 2-ply	T13Z Jack-Closed Girder	6 / 12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	17	J1 Jack-Open	6 / 12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	285.51 181.33		
	6	J1S Jack-Open	6 / 12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 3-01-04	125.09 88.00		
	3	J2 Jack-Open	7 / 12	6-06-08	5-01-04	2 x 4	1-03-08	1-03-07 5-01-04	56.81 36.00		
	4	J3 Jack-Open	4 / 12	3-10-08	2-04-11	2 x 4	1-09-08	1-01-03 2-04-11	48.09 32.00		

TOTAL # TRUSS= 64 TOTAL BFT OF ALL TRUSSES= 2857.99 BFT. TOTAL WEIGHT OF ALL TRSSES 4493.51 LBS

HARDWARE

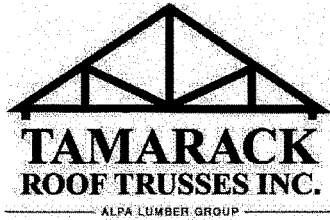
QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
9	Hardware	LUS24	

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard:	TAMARACK LUMBER
	Builder:	ROYAL PINE HOMES
	Project:	CENTREFIELD
	Location:	RICHMOND HILL
	Model:	UNIT-4502
	Lot #:	
Elevation:	A-STD.WITH OPT.COFF	
Job Track:	51004	
PlanLog:	203059	
Layout ID:	410965	
Ref #		
Page:	3 of 3	
Date:	05/26/2021	
Designer:		
Sales Rep:	Mario DiCano	

HARDWARE

QTY	TYPE	MODEL	LENGTH
2	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 12



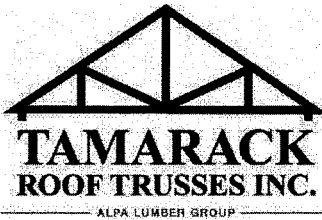
DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT-4502
 Lot #:
 Elevation: A-5 BRM. WITH OPT. COFF.

Job Track: 51004
 PlanLog: 203059
 Layout ID: 410966
 Ref #
 Page: 1 of 2
 Date: 05/26/2021
 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 2-ply	T1S1 Hip Girder	10 /12	35-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	395 251.33		
	1	T2 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	148.9 93.50		
	1	T2S1 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	158.5 101.33		
	1	T3 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	150.38 95.00		
	1	T3S1 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	163.58 103.50		
	1	T4 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	163.65 102.17		
	1	T4S1 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	171.34 108.83		
	1	T5 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	161.59 101.00		
	1	T5S1 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	179.61 114.17		
	2	T6 Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	367.4 230.00		
	2	T7 Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	351.11 220.00		
	2	T8 Hip	10 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	384.63 238.00		
	1 2-ply	T9 Roof Special Girder	10 /12	35-11-00	5-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	398.56 245.00		
	4	T10 Common	10 /12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	196.37 129.33		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER						Job Track: 51004	
	Builder: ROYAL PINE HOMES						PlanLog: 203059	
	Project: CENTREFIELD						Layout ID: 410966	
	Location: RICHMOND HILL						Ref #	
	Model: UNIT-4502						Page: 2 of 2	
Lot #:						Date: 05/26/2021		
Elevation: A-5 BRM. WITH OPT. COFF.						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	T10S Roof Special	10 /12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	116.07 78.33		
	2	T11 Common	10 /12	13-00-00	7-00-11	2 x 4		1-07-11 1-07-11	116.53 73.67		
	2	T11S Roof Special	10 /12	13-00-00	7-00-11	2 x 4		1-07-11 1-07-11	130.91 88.67		
	1 2-ply	T12 Jack-Closed Girder	7 /12	6-06-08	5-01-04	2 x 4 2 x 6		1-03-07 5-01-04	67.4 42.67		
	1 2-ply	T13 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	1 2-ply	T13Z Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	16	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	268.71 170.67		
	7	J1S Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 3-01-04	145.94 102.67		
	3	J2 Jack-Open	7 /12	6-06-08	5-01-04	2 x 4	1-03-08	1-03-07 5-01-04	56.81 36.00		
	4	J3 Jack-Open	4 /12	3-10-08	2-04-11	2 x 4	1-09-08	1-01-03 2-04-11	48.09 32.00		

TOTAL # TRUSS= 64

TOTAL BFT OF ALL TRUSSES= 2831.84

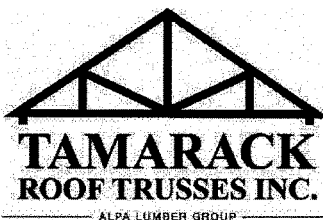
BFT.

TOTAL WEIGHT OF ALL TRSSES 4456.36 LBS

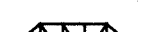
HARDWARE

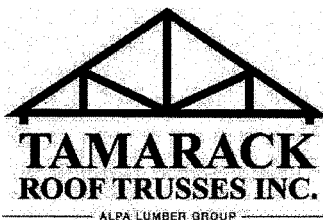
QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
9	Hardware	LUS24	
2	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 12

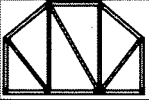
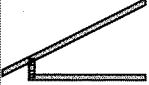
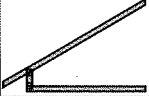
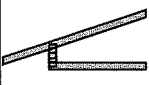
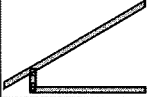
DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	418972
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	1 of 2
	Lot #:		Date:	05/26/2021
	Elevation:	B-STD.OR 5 BRM	Designer:	
		Sales Rep:	Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	10 /12	35-11-00	4-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	370.4 221.33		
	2	T2 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	297.79 187.00		
	2	T3 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	300.76 190.00		
	2	T4 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	327.29 204.33		
	2	T5 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	323.18 202.00		
	2	T6 Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	367.4 230.00		
	2	T7 Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	351.11 220.00		
	2	T8 Hip	10 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	384.63 238.00		
	1 2-ply	T9Z Roof Special Girder	10 /12	35-11-00	5-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	398.56 245.00		
	1	T10 Common	10 /12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	49.09 32.33		
	1 2-ply	T13Z1 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	1	T20 Hip Girder	10 /12	11-00-00	4-08-09	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	51.64 34.00		
	1	T21 Hip	10 /12	11-00-00	5-10-09	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	52.77 34.67		
	1	T22 Hip Girder	10 /12	10-09-00	4-01-05	2 x 4 2 x 6		2-05-03 2-05-03	57.35 37.33		

DELIVERY SHIPLIST				
	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	418972
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	2 of 2
	Lot #:		Date:	05/26/2021
	Elevation:	B-STD.OR 5 BRM	Designer:	
		Sales Rep:	Mario DiCano	

Roof Trusses

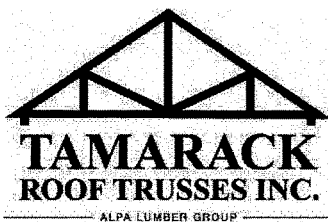
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T23 Hip	10 /12	10-03-00	6-09-05	2 x 4		4-01-11 4-01-11	58.11 38.00		
	1	T24 Hip	10 /12	10-03-00	7-07-13	2 x 4		4-01-11 4-01-11	61.47 40.00		
	2 2-ply	T25 Flat Girder	0 /12	6-06-08	1-06-00	2 x 6		1-06-00 1-06-00	120.06 75.33		
	23	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	386.27 245.33		
	4	J2 Jack-Open	7 /12	6-06-08	5-01-04	2 x 4	1-03-08	1-03-07 5-01-04	75.75 48.00		
	3	J3 Jack-Open	4 /12	3-10-08	2-04-11	2 x 4	1-09-08	1-01-03 2-04-11	36.06 24.00		
	5	J20 Jack-Open	7 /12	5-10-08	4-08-09	2 x 4	1-03-08	1-03-07 4-08-09	86.49 53.33		
	5	J21 Jack-Open	7 /12	3-01-08	4-01-05	2 x 4	1-03-08	2-03-07 4-01-05	67.56 47.50		

TOTAL # TRUSS= 70 TOTAL BFT OF ALL TRUSSES= 2684.48 BFT. TOTAL WEIGHT OF ALL TRSSES 4281.4 LBS

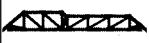
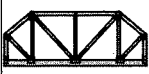
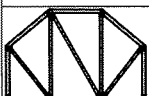
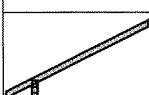
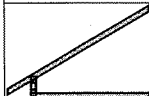
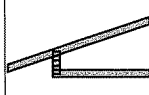
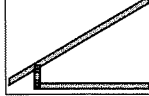
HARDWARE

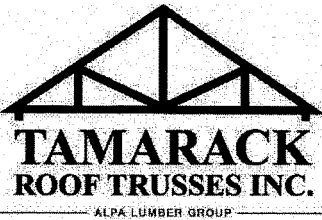
QTY	TYPE	MODEL	LENGTH
6	Hardware	LUS24	
1	Hardware	LUS26-2	
2	Hardware	HGUS26-2	

TOTAL NUMBER OF ITEMS= 9

DELIVERY SHIPLIST				
	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	410967
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	2 of 3
	Lot #:		Date:	05/26/2021
	Elevation:	B-STD.WITH OPT.COFF	Designer:	
		Sales Rep:	Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T9Z Roof Special Girder	10 /12	35-11-00	5-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	398.56 245.00		
	1	T10 Common	10 /12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	49.09 32.33		
	1 2-ply	T13Z1 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	1	T20 Hip Girder	10 /12	11-00-00	4-08-09	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	51.64 34.00		
	1	T21 Hip	10 /12	11-00-00	5-10-09	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	52.77 34.67		
	1	T22 Hip Girder	10 /12	10-09-00	4-01-05	2 x 4 2 x 6		2-05-03 2-05-03	57.35 37.33		
	1	T23 Hip	10 /12	10-03-00	6-09-05	2 x 4		4-01-11 4-01-11	58.11 38.00		
	1	T24 Hip	10 /12	10-03-00	7-07-13	2 x 4		4-01-11 4-01-11	61.47 40.00		
	2 2-ply	T25 Flat Girder	0 /12	6-06-08	1-06-00	2 x 6		1-06-00 1-06-00	120.06 75.33		
	17	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	285.51 181.33		
	6	J1S Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 3-01-04	125.09 88.00		
	4	J2 Jack-Open	7 /12	6-06-08	5-01-04	2 x 4	1-03-08	1-03-07 5-01-04	75.75 48.00		
	3	J3 Jack-Open	4 /12	3-10-08	2-04-11	2 x 4	1-09-08	1-01-03 2-04-11	36.06 24.00		
	5	J20 Jack-Open	7 /12	5-10-08	4-08-09	2 x 4	1-03-08	1-03-07 4-08-09	86.49 53.33		

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT-4502 Lot #: Elevation: B-STD.WITH OPT.COFF	Job Track: 51004 PlanLog: 203059 Layout ID: 410967 Ref # Page: 3 of 3 Date: 05/26/2021 Designer: Sales Rep: Mario DiCano

Roof Trusses

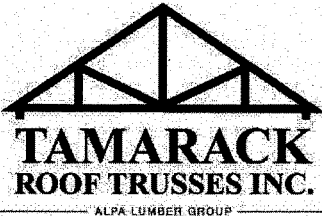
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	5	J21 Jack-Open	7 /12	3-01-08	4-01-05	2 x 4	1-03-08	2-03-07 4-01-05	67.56 47.50		

TOTAL # TRUSS= 70
TOTAL BFT OF ALL TRUSSES= 2804.81
BFT.
TOTAL WEIGHT OF ALL TRSSES 4420.05
LBS

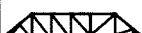
HARDWARE

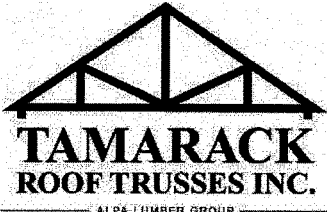
QTY	TYPE	MODEL	LENGTH
2	Hardware	HGUS26-2	
6	Hardware	LUS24	
1	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 9

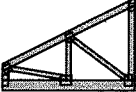
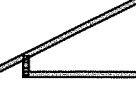
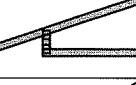
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER	Job Track: 51004	PlanLog: 203059 Layout ID: 410968 Ref # Page: 1 of 3 Date: 05/26/2021 Designer: Sales Rep: Mario DiCano					
Builder: ROYAL PINE HOMES								
Project: CENTREFIELD								
Location: RICHMOND HILL								
Model: UNIT-4502								
Lot #:								
Elevation: B-5 BRM WITH OPT.COFF.								

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	T1S1 Hip Girder	10 /12	35-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	395 251.33		
	1	T2 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	148.9 93.50		
	1	T2S1 Hip	10 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	158.5 101.33		
	1	T3 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	150.38 95.00		
	1	T3S1 Hip	10 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	163.58 103.50		
	1	T4 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	163.65 102.17		
	1	T4S1 Hip	10 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	171.34 108.83		
	1	T5 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	161.59 101.00		
	1	T5S1 Hip	10 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	179.61 114.17		
	2	T6 Hip	10 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	367.4 230.00		
	2	T7 Hip	10 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	351.11 220.00		
	2	T8 Hip	10 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	384.63 238.00		
	1 2-ply	T9Z Roof Special Girder	10 /12	35-11-00	5-01-10	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	398.56 245.00		
	1	T10 Common	10 /12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	49.09 32.33		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST										
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT-4502 Lot #: Elevation: B-5 BRM WITH OPT.COFF.							Job Track: 51004 PlanLog: 203059 Layout ID: 410968 Ref # Page: 2 of 3 Date: 05/26/2021 Designer: Sales Rep: Mario DiCano			

Roof Trusses

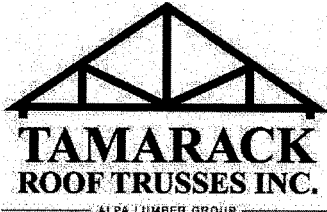
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T13Z1 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.64 37.00		
	1	T20 Hip Girder	10 /12	11-00-00	4-08-09	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	51.64 34.00		
	1	T21 Hip	10 /12	11-00-00	5-10-09	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	52.77 34.67		
	1	T22 Hip Girder	10 /12	10-09-00	4-01-05	2 x 4 2 x 6		2-05-03 2-05-03	57.35 37.33		
	1	T23 Hip	10 /12	10-03-00	6-09-05	2 x 4		4-01-11 4-01-11	58.11 38.00		
	1	T24 Hip	10 /12	10-03-00	7-07-13	2 x 4		4-01-11 4-01-11	61.47 40.00		
	2 2-ply	T25 Flat Girder	0 /12	6-06-08	1-06-00	2 x 6		1-06-00 1-06-00	120.06 75.33		
	18	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	302.3 192.00		
	5	J1S Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	83.97 53.33		
	4	J2 Jack-Open	7 /12	6-06-08	5-01-04	2 x 4	1-03-08	1-03-07 5-01-04	75.75 48.00		
	3	J3 Jack-Open	4 /12	3-10-08	2-04-11	2 x 4	1-09-08	1-01-03 2-04-11	36.06 24.00		
	5	J20 Jack-Open	7 /12	5-10-08	4-08-09	2 x 4	1-03-08	1-03-07 4-08-09	86.49 53.33		
	5	J21 Jack-Open	7 /12	3-01-08	4-01-05	2 x 4	1-03-08	2-03-07 4-01-05	67.56 47.50		

TOTAL # TRUSS= 70

TOTAL BFT OF ALL TRUSSES= 2750.65

BFT.

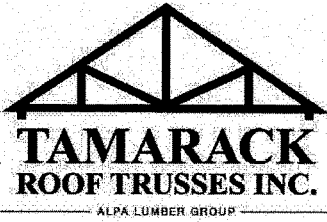
TOTAL WEIGHT OF ALL TRSSES 4354.52 LBS

		DELIVERY SHIPLIST	
 TAMARACK ROOF TRUSSES INC. ALFA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track: 51004
	Builder:	ROYAL PINE HOMES	PlanLog: 203059
	Project:	CENTREFIELD	Layout ID: 410968
	Location:	RICHMOND HILL	Ref #
	Model:	UNIT-4502	Page: 3 of 3
	Lot #:		Date: 05/26/2021
Elevation:	B-5 BRM WITH OPT.COFF.	Designer:	
		Sales Rep:	Mario DiCano

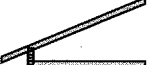
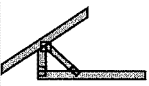
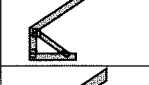
HARDWARE

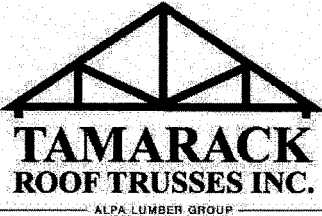
QTY	TYPE	MODEL	LENGTH
2	Hardware	HGUS26-2	
6	Hardware	LUS24	
1	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 9

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST										
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT-4502 Lot #: Elevation: C-STD.OR 5 BRM							Job Track: 51004 PlanLog: 203059 Layout ID: 418973 Ref # Page: 2 of 3 Date: 05/26/2021 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	T44 Half Hip	8 /12	11-10-00	4-10-08	2 x 4	1-03-08	1-04-13 4-10-08	52.32 34.17		
	1 2-ply	T45 Jack-Closed Girder	5 /12	5-10-08	3-05-15	2 x 4 2 x 6		1-00-09 3-05-15	54.49 34.67		
	1 2-ply	T45Z Jack-Closed Girder	5 /12	5-10-08	3-05-15	2 x 4 2 x 6		1-00-09 3-05-15	54.49 34.67		
	1 2-ply	T46 Jack-Closed Girder	8 /12	6-10-08	5-11-13	2 x 4 2 x 6		1-04-13 5-11-13	74.36 47.33		
	23	J30 Jack-Open	5 /12	5-10-08	3-05-15	2 x 4	1-03-08	1-00-09 3-05-15	375.6 230.00		
	6	J31 Jack-Open	8 /12	3-10-08	3-11-13	2 x 4	1-03-08	1-04-13 3-11-13	87.32 57.00		
	4	C30 Jack-Open	8 /12	1-09-07	2-07-02	2 x 4	1-03-08 2-01-01	1-04-13 2-07-02	44.74 28.00		
	4	C31 Jack-Open	8 /12	1-09-07	2-07-02	2 x 4	1-03-08 1-01	1-04-13 2-07-02	36.68 22.67		
	1	C32 Jack-Open	8 /12	6-10-08	5-04-02	2 x 4		1-04-13 5-11-13	19 12.17		
	1	C33 Jack-Open	8 /12	3-10-15	4-00-02	2 x 4	1-03-08 2-11-09	1-04-13 4-00-02	18.02 11.50		
	1	C34 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 4-11-09	1-04-13 2-08-02	14.87 9.67		
	1	C35 Jack-Open	8 /12	2-00-00	5-04-02	2 x 4	3-10-15	1-04-13 2-08-13	13.08 8.33		
	1	C36 Jack-Open	8 /12	2-00-00	4-00-02	2 x 4	1-10-15	1-04-13 2-08-13	10.34 6.33		
	1	C37 Jack-Open	8 /12	2-00-00	2-08-02	2 x 4		1-04-13 2-08-13	7.6 5.00		

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT-4502 Lot #: Elevation: C-STD.OR 5 BRM	Job Track: 51004 PlanLog: 203059 Layout ID: 418973 Ref # Page: 3 of 3 Date: 05/26/2021 Designer: Sales Rep: Mario DiCano

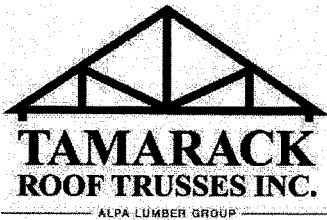
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
TOTAL # TRUSS= 73 TOTAL BFT OF ALL TRUSSES= 2511.35 BFT. TOTAL WEIGHT OF ALL TRSSES 4039.39 LBS											

HARDWARE

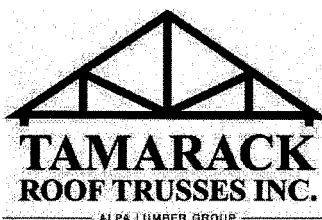
QTY	TYPE	MODEL	LENGTH
1	Hardware	LJS26DS	
7	Hardware	LUS24	
2	Hardware	LUS26-2	
1	Hardware	HGUS26-2	

TOTAL NUMBER OF ITEMS= 11

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER	Job Track: 51004	Page: 1 of 3 Date: 05/26/2021 Designer: Sales Rep: Mario DiCano					
Builder: ROYAL PINE HOMES	PlanLog: 203059							
Project: CENTREFIELD	Layout ID: 410969							
Location: RICHMOND HILL	Ref #							
Model: UNIT-4502								
Lot #:								
Elevation: C- STD.WITH OPT.COFF.								

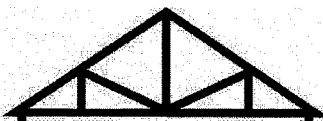
Roof Trusses

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	T30S Hip Girder	8 /12	35-11-00	3-05-15	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	380.75 233.67		
	1	T31 Hip	8 /12	35-11-00	4-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	141.27 89.17		
	1	T31S Hip	8 /12	35-11-00	4-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	153.18 97.00		
	1	T32 Hip	8 /12	35-11-00	5-01-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	142.49 88.50		
	1	T32S Hip	8 /12	35-11-00	5-01-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	154.45 96.67		
	1	T33 Hip	8 /12	35-11-00	5-11-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	152.6 96.33		
	1	T33S Hip	8 /12	35-11-00	5-11-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	160.37 102.17		
	1	T34 Hip	8 /12	35-11-00	6-09-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	154.62 96.17		
	1	T34S Hip	8 /12	35-11-00	6-09-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	168.82 106.50		
	1	T35 Hip	8 /12	35-11-00	7-07-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	160.98 102.50		
	1	T35S Hip	8 /12	35-11-00	7-07-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	170.91 109.83		
	1	T36 Hip	8 /12	35-11-00	8-05-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	163.01 100.00		
	1	T36S Hip	8 /12	35-11-00	8-05-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	182.36 114.00		
	2	T37 Hip	8 /12	35-11-00	9-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	336.58 207.67		

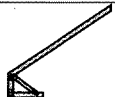
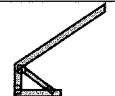
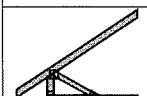
DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	410969
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	2 of 3
	Lot #:		Date:	05/26/2021
	Elevation:	C- STD.WITH OPT.COFF.	Designer:	
		Sales Rep:	Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T38 Roof Special Girder	8 /12	35-11-00	5-11-15	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	383.01 235.00		
	1	T39 Hip Girder	8 /12	11-00-00	3-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	48.21 31.17		
	1	T40 Hip	8 /12	11-00-00	6-08-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	57.61 35.67		
	1	T41 Hip	8 /12	11-00-00	5-04-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	56.98 36.17		
	1	T42 Hip	8 /12	11-00-00	4-00-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	53.76 33.33		
	1	T43 Hip Girder	8 /12	11-10-00	3-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	50.58 32.50		
	1	T44 Half Hip	8 /12	11-10-00	4-10-08	2 x 4	1-03-08	1-04-13 4-10-08	52.32 34.17		
	1 2-ply	T45 Jack-Closed Girder	5 /12	5-10-08	3-05-15	2 x 4 2 x 6		1-00-09 3-05-15	54.49 34.67		
	1 2-ply	T45Z Jack-Closed Girder	5 /12	5-10-08	3-05-15	2 x 4 2 x 6		1-00-09 3-05-15	54.49 34.67		
	1 2-ply	T46 Jack-Closed Girder	8 /12	6-10-08	5-11-13	2 x 4 2 x 6		1-04-13 5-11-13	74.36 47.33		
	4	C30 Jack-Open	8 /12	1-09-07	2-07-02	2 x 4	1-03-08 2-01-01	1-04-13 2-07-02	44.74 28.00		
	4	C31 Jack-Open	8 /12	1-09-07	2-07-02	2 x 4	1-03-08 1-01	1-04-13 2-07-02	35.62 22.67		
	1	C32 Jack-Open	8 /12	6-10-08	5-04-02	2 x 4		1-04-13 5-11-13	19 12.17		
	1	C33 Jack-Open	8 /12	3-10-15	4-00-02	2 x 4	1-03-08 2-11-09	1-04-13 4-00-02	18.02 11.50		

DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	410969
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	3 of 3
	Lot #:		Date:	05/26/2021
	Elevation:	C- STD.WITH OPT.COFF.	Designer:	
		Sales Rep:	Mario DiCano	

Roof Trusses

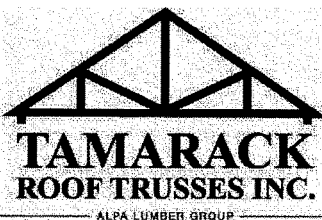
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	C34 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 4-11-09	1-04-13 2-08-02	14.87 9.67		
	1	C35 Jack-Open	8 /12	2-00-00	5-04-02	2 x 4	3-10-15	1-04-13 2-08-13	13.08 8.33		
	1	C36 Jack-Open	8 /12	2-00-00	4-00-02	2 x 4	1-10-15	1-04-13 2-08-13	10.34 6.33		
	1	C37 Jack-Open	8 /12	2-00-00	2-08-02	2 x 4		1-04-13 2-08-13	7.6 5.00		
	17	J30 Jack-Open	5 /12	5-10-08	3-05-15	2 x 4	1-03-08	1-00-09 3-05-15	277.62 170.00		
	6	J30S Jack-Open	5 /12	5-10-08	3-05-15	2 x 4	1-03-08	1-00-09 2-05-15	117.58 84.00		
	6	J31 Jack-Open	8 /12	3-10-08	3-11-13	2 x 4	1-03-08	1-04-13 3-11-13	87.32 57.00		

TOTAL # TRUSS= 73 TOTAL BFT OF ALL TRUSSES= 2609.53 BFT. TOTAL WEIGHT OF ALL TRSSES 4153.98 LBS

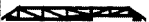
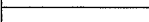
HARDWARE

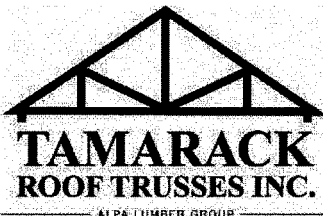
QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
1	Hardware	LJS26DS	
6	Hardware	LUS24	
2	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 10

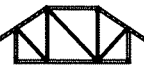
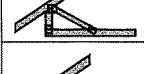
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST							
	Lumber Yard: TAMARACK LUMBER						Job Track: 51004	
	Builder: ROYAL PINE HOMES						PlanLog: 203059	
	Project: CENTREFIELD						Layout ID: 410970	
	Location: RICHMOND HILL						Ref #	
	Model: UNIT-4502						Page: 1 of 3	
Lot #:						Date: 05/26/2021		
Elevation: C-5 BRM WITH OPT. COFF.						Designer:		
						Sales Rep: Mario DiCano		

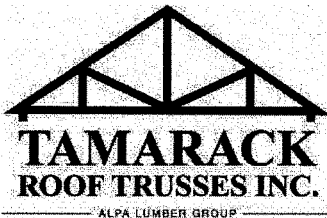
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T30S1 Hip Girder	8 / 12	35-11-00	3-05-15	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	379.53 233.00		
	1	T31 Hip	8 / 12	35-11-00	4-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	141.27 89.17		
	1	T31S1 Hip	8 / 12	35-11-00	4-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	152.93 97.00		
	1	T32 Hip	8 / 12	35-11-00	5-01-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	142.49 88.50		
	1	T32S1 Hip	8 / 12	35-11-00	5-01-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	153.99 97.67		
	1	T33 Hip	8 / 12	35-11-00	5-11-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	152.6 96.33		
	1	T33S1 Hip	8 / 12	35-11-00	5-11-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	160.05 102.00		
	1	T34 Hip	8 / 12	35-11-00	6-09-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	154.62 96.17		
	1	T34S1 Hip	8 / 12	35-11-00	6-09-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	168.46 106.50		
	2	T35 Hip	8 / 12	35-11-00	7-07-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	321.96 205.00		
	2	T36 Hip	8 / 12	35-11-00	8-05-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	326.02 200.00		
	2	T37 Hip	8 / 12	35-11-00	9-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	336.58 207.67		
	1 2-ply	T38 Roof Special Girder	8 / 12	35-11-00	5-11-15	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	383.01 235.00		
	1	T39 Hip Girder	8 / 12	11-00-00	3-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	48.21 31.17		

DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	410970
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	2 of 3
	Lot #:		Date:	05/26/2021
	Elevation:	C-5 BRM WITH OPT. COFF.	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	T40 Hip	8 / 12	11-00-00	6-08-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	57.61 35.67		
	1	T41 Hip	8 / 12	11-00-00	5-04-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	56.98 36.17		
	1	T42 Hip	8 / 12	11-00-00	4-00-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	53.76 33.33		
	1	T43 Hip Girder	8 / 12	11-10-00	3-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	50.58 32.50		
	1	T44 Half Hip	8 / 12	11-10-00	4-10-08	2 x 4	1-03-08	1-04-13 4-10-08	52.32 34.17		
	1 2-ply	T45 Jack-Closed Girder	5 / 12	5-10-08	3-05-15	2 x 4 2 x 6		1-00-09 3-05-15	54.49 34.67		
	1 2-ply	T45Z Jack-Closed Girder	5 / 12	5-10-08	3-05-15	2 x 4 2 x 6		1-00-09 3-05-15	54.49 34.67		
	1 2-ply	T46 Jack-Closed Girder	8 / 12	6-10-08	5-11-13	2 x 4 2 x 6		1-04-13 5-11-13	74.36 47.33		
	17	J30 Jack-Open	5 / 12	5-10-08	3-05-15	2 x 4	1-03-08	1-00-09 3-05-15	277.62 170.00		
	6	J30S Jack-Open	5 / 12	5-10-08	3-05-15	2 x 4	1-03-08	1-00-09 2-05-15	117.58 84.00		
	6	J31 Jack-Open	8 / 12	3-10-08	3-11-13	2 x 4	1-03-08	1-04-13 3-11-13	87.32 57.00		
	4	C30 Jack-Open	8 / 12	1-09-07	2-07-02	2 x 4	1-03-08 2-01-01	1-04-13 2-07-02	44.74 28.00		
	4	C31 Jack-Open	8 / 12	1-09-07	2-07-02	2 x 4	1-03-08 1-01	1-04-13 2-07-02	36.68 22.67		
	1	C32 Jack-Open	8 / 12	6-10-08	5-04-02	2 x 4		1-04-13 5-11-13	19 12.17		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST				
	Lumber Yard: TAMARACK LUMBER				Job Track: 51004
	Builder: ROYAL PINE HOMES				PlanLog: 203059
	Project: CENTREFIELD				Layout ID: 410970
	Location: RICHMOND HILL				Ref #
	Model: UNIT-4502				Page: 3 of 3
Lot #:				Date: 05/26/2021	Designer:
Elevation: C-5 BRM WITH OPT. COFF.				Sales Rep: Mario DiCano	

Roof Trusses

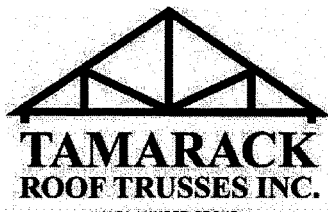
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	C33 Jack-Open	8 /12	3-10-15	4-00-02	2 x 4	1-03-08 2-11-09	1-04-13 4-00-02	18.02 11.50		
	1	C34 Jack-Open	8 /12	1-10-15	2-08-02	2 x 4	1-03-08 4-11-09	1-04-13 2-08-02	14.87 9.67		
	1	C35 Jack-Open	8 /12	2-00-00	5-04-02	2 x 4	3-10-15	1-04-13 2-08-13	13.08 8.33		
	1	C36 Jack-Open	8 /12	2-00-00	4-00-02	2 x 4	1-10-15	1-04-13 2-08-13	10.34 6.33		
	1	C37 Jack-Open	8 /12	2-00-00	2-08-02	2 x 4		1-04-13 2-08-13	7.6 5.00		

TOTAL # TRUSS= 73 TOTAL BFT OF ALL TRUSSES= 2588.36 BFT. TOTAL WEIGHT OF ALL TRSSES 4123.14 LBS

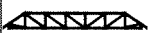
HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
1	Hardware	LJS26DS	
7	Hardware	LUS24	
3	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 12

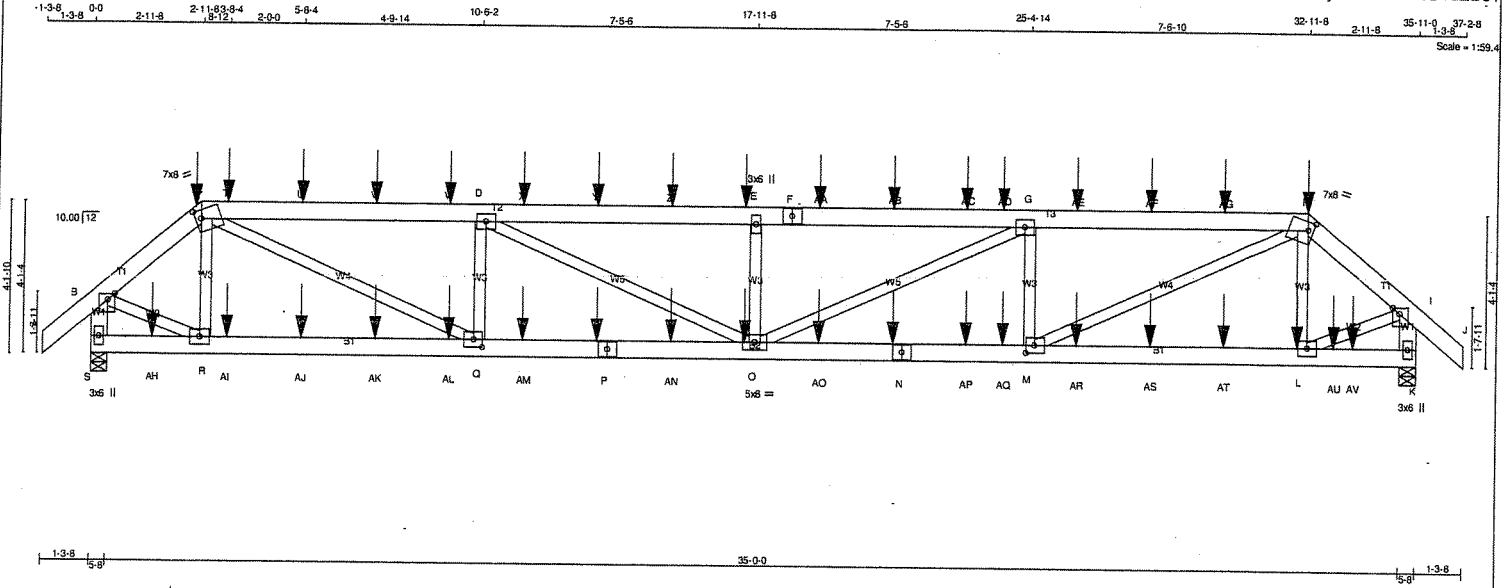
DELIVERY SHIPLIST				
	Lumber Yard:	TAMARACK LUMBER	Job Track:	51004
	Builder:	ROYAL PINE HOMES	PlanLog:	203059
	Project:	CENTREFIELD	Layout ID:	418973
	Location:	RICHMOND HILL	Ref #	
	Model:	UNIT-4502	Page:	1 of 3
	Lot #:		Date:	05/26/2021
	Elevation:	C-STD.OR 5 BRM	Designer:	
		Sales Rep:	Mario DiCano	

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T30 Hip Girder	8 / 12	35-11-00	3-06-01	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	359.83 213.00		
	2	T31 Hip	8 / 12	35-11-00	4-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	282.53 178.33		
	2	T32 Hip	8 / 12	35-11-00	5-01-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	284.97 177.00		
	2	T33 Hip	8 / 12	35-11-00	5-11-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	305.19 192.67		
	2	T34 Hip	8 / 12	35-11-00	6-09-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	309.25 192.33		
	2	T35 Hip	8 / 12	35-11-00	7-07-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	321.96 205.00		
	2	T36 Hip	8 / 12	35-11-00	8-05-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	326.02 200.00		
	2	T37 Hip	8 / 12	35-11-00	9-03-15	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	336.58 207.67		
	1 2-ply	T38 Roof Special Girder	8 / 12	35-11-00	5-11-15	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	383.01 235.00		
	1	T39 Hip Girder	8 / 12	11-00-00	3-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	48.21 31.17		
	1	T40 Hip	8 / 12	11-00-00	6-08-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	57.61 35.67		
	1	T41 Hip	8 / 12	11-00-00	5-04-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	56.98 36.17		
	1	T42 Hip	8 / 12	11-00-00	4-00-13	2 x 4	1-03-08 1-03-08	3-04-13 3-04-13	53.76 33.33		
	1	T43 Hip Girder	8 / 12	11-10-00	3-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	50.58 32.50		

JOB NAME 418971	TRUSS NAME T1	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. Fri May 21 17:28:28 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuPtpKRSB3F7K_C7kMBkBOIoDbV4Zyd680KACUsCYzEDcT



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

ALL WEBS 2x4 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 2	12	SIDE(122.0)
C - F 2	12	SIDE(183.1)
F - H 2	12	SIDE(61.0)
H - J 2	12	SIDE(122.0)
S - B 2	12	TOP
K - I 2	12	TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P 2	12	SIDE(0.0)
P - N 2	12	SIDE(183.1)
N - K 2	12	SIDE(183.1)

WEBS : (0.122"x3") SPIRAL NAILS
2x4 1 6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PILES 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		REQD	
JT	VERT	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
S	3446	0	3446	0	0	5-8	5-8		
K	3520	0	3520	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	2436	1606 / 0	0 / 0	0 / 0	0 / 0	0 / 0	830 / 0	0 / 0
K	2491	1625 / 0	0 / 0	0 / 0	0 / 0	0 / 0	865 / 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 = 3.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 / 42	-91.8 -91.8	0.04 (1)	10.00	R-C	-704 / 0	0.06 (1)		
B-C	-3479 / 0	-91.8 -91.8	0.05 (1)	5.95	C-Q	0 / 4809	0.43 (1)		
C-T	-6967 / 0	-91.8 -91.8	0.42 (1)	4.18	O-D	-1868 / 0	0.16 (1)		
T-U	-6967 / 0	-91.8 -91.8	0.42 (1)	4.18	D-O	0 / 1498	0.13 (1)		
U-V	-6967 / 0	-91.8 -91.8	0.42 (1)	4.18	O-E	-1026 / 0	0.09 (1)		
V-W	-6967 / 0	-91.8 -91.8	0.42 (1)	4.18	O-G	0 / 1397	0.12 (1)		
W-D	-6967 / 0	-91.8 -91.8	0.42 (1)	4.18	M-H	-1871 / 0	0.16 (1)		
D-X	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83	H-H	0 / 4850	0.43 (1)		
X-Y	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83	L-H	-699 / 0	0.06 (1)		
Y-Z	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83	B-R	0 / 2823	0.25 (1)		
Z-E	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83	L-I	0 / 2881	0.25 (1)		
E-F	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83					
F-AA	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83					
AA-AB	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83					
AB-AC	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83					
AC-AD	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83					
AD-G	-8313 / 0	-91.8 -91.8	0.47 (1)	3.83					
G-AE	-7058 / 0	-91.8 -91.8	0.43 (1)	4.14					
AE-AF	-7058 / 0	-91.8 -91.8	0.43 (1)	4.14					
AF-AG	-7058 / 0	-91.8 -91.8	0.43 (1)	4.14					
AG-H	-7058 / 0	-91.8 -91.8	0.43 (1)	4.14					
H-I	-3550 / 0	-91.8 -91.8	0.05 (1)	5.91					
I-J	0 / 42	-91.8 -91.8	0.04 (1)	10.00					
S-B	-3467 / 0	0.0 0.0	0.12 (1)	7.51					
K-I	-3532 / 0	0.0 0.0	0.13 (1)	7.45					

S-AH	0 / 0	-18.5	-18.5	0.08 (4)	10.00
AH-R	0 / 0	-18.5	-18.5	0.08 (4)	10.00
R-AJ	0 / 2629	-18.5	-18.5	0.24 (1)	10.00
AJ-AK	0 / 2629	-18.5	-18.5	0.24 (1)	10.00
AK-AL	0 / 2629	-18.5	-18.5	0.24 (1)	10.00
AL-Q	0 / 2629	-18.5	-18.5	0.24 (1)	10.00
Q-AM	0 / 6967	-18.5	-18.5	0.52 (1)	10.00
AM-P	0 / 6967	-18.5	-18.5	0.52 (1)	10.00
P-AN	0 / 6967	-18.5	-18.5	0.52 (1)	10.00
AN-O	0 / 6967	-18.5	-18.5	0.52 (1)	10.00
O-AO	0 / 7059	-18.5	-18.5	0.53 (1)	10.00
AO-N	0 / 7059	-18.5	-18.5	0.53 (1)	10.00
N-AP	0 / 7059	-18.5	-18.5	0.53 (1)	10.00
AP-AO	0 / 7059	-18.5	-18.5	0.53 (1)	10.00
AQ-M	0 / 7059	-18.5	-18.5	0.53 (1)	10.00
M-AR	0 / 2683	-18.5	-18.5	0.24 (1)	10.00

TOTAL WEIGHT = 2 X 203 = 405 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, 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 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.39")

CSI: TC=0.47/1.00 (E-G:1), BC=0.53/1.00 (M-O:1),
WB=0.43/1.00 (H-M:1), SS=0.22/1.00 (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)	(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 = 0.89 (Q) (INPUT = 0.90)
JSI METAL = 0.69 (P) (INPUT = 1.00)



Structural component only
DWG# T-2115333

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
418971	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 17:28:29 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-L0upfX4ute63luxNluv LR7ggzlsrbFUPsDPk zEDc0

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.25
C	TTWW-m	MT20	7.0	8.0	2.75	1.75
D	TMWW-t	MT20	5.0	6.0		
E	TMW+w	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMWW-t	MT20	5.0	6.0		
H	TTWW-m	MT20	7.0	8.0	2.75	1.75
I	TMVW+p	MT20	5.0	6.0	2.00	2.25
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-t	MT20	5.0	6.0		
M	BMWW-t	MT20	5.0	6.0	2.50	2.75
N	BS-t	MT20	5.0	6.0		
O	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	6.0	2.50	2.75
S	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)	MAX. UNBRAC. LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
AR-AS	0 / 2683	-18.5	-18.5 0.24 (1)	10.00			
AS-AT	0 / 2683	-18.5	-18.5 0.24 (1)	10.00			
AT-L	0 / 2683	-18.5	-18.5 0.24 (1)	10.00			
L-AU	0 / 0	-18.5	-18.5 0.08 (4)	10.00			
AU-AV	0 / 0	-18.5	-18.5 0.08 (4)	10.00			
AV-K	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	2-11-8	-30	-30		FRONT	VERT	DEAD		C1
C	2-11-8	-127	-127		FRONT	VERT	SNOW		C1
E	17-8-4	-76	-76		FRONT	VERT	TOTAL		C1
H	32-11-8	-30	-30		FRONT	VERT	DEAD		C1
H	32-11-8	-80	-80		FRONT	VERT	TOTAL		C1
H	32-11-8	-127	-127		FRONT	VERT	SNOW		C1
L	32-8-4	-21	-21		FRONT	VERT	TOTAL		C1
N	21-8-4	-21	-21		FRONT	VERT	TOTAL		C1
O	17-8-4	-21	-21		FRONT	VERT	TOTAL		C1
P	13-8-4	-21	-21		FRONT	VERT	TOTAL		C1
T	3-8-4	-85	-85		FRONT	VERT	TOTAL		C1
U	5-8-4	-76	-76		FRONT	VERT	TOTAL		C1
V	7-8-4	-76	-76		FRONT	VERT	TOTAL		C1
W	9-8-4	-76	-76		FRONT	VERT	TOTAL		C1
X	11-8-4	-76	-76		FRONT	VERT	TOTAL		C1
Y	13-8-4	-76	-76		FRONT	VERT	TOTAL		C1
Z	15-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AA	19-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AB	21-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AC	23-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AD	24-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AE	26-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AF	28-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AG	30-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AH	1-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AI	3-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AJ	5-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AK	7-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AL	9-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AM	11-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AN	15-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AO	19-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AP	23-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AO	24-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AR	26-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AS	28-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AT	30-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AU	33-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AV	34-2-4	-21	-21		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2115333 2/2

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 M/Tek Industries, Inc. Fri May 21 15:56:59 2021 Page 2

ID:GAonzd6DLBrd2xE89xtNtRz BuP-5q9MRJdCnqQ16BEFhvPYqilTFwZBXcMO jKu1BzEEExo

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.25
C	TTWW+m	MT20	5.0	8.0	2.50	2.25
D, E, H						
D	TMVW-t	MT20	5.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMV+p	MT20	3.0	6.0		
I	TTWW+m	MT20	6.0	9.0	Edge	
J	TMVW+p	MT20	4.0	4.0	1.00	2.00
K	TMVW-t	MT20	5.0	8.0	Edge	
M	BMVW-t	MT20	5.0	8.0		
N	BMV+p	MT20	3.0	6.0		
O	BVMWW-t	MT20	6.0	12.0	3.25	7.50
P	BMVW-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.50
R	BVMWWW-t	MT20	8.0	12.0	4.75	4.25
S	BMV+p	MT20	3.0	6.0		
T	BMVWW-t	MT20	7.0	12.0	3.50	3.25
U	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	5.0	6.0	2.50	2.75
W	BMVW-t	MT20	5.0	6.0		
X	BMV+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)

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		
R-AU	0/8217	-18.5	-18.5 0.61 (1)	10.00			
AU-AV	0/8217	-18.5	-18.5 0.61 (1)	10.00			
AV-Q	0/8217	-18.5	-18.5 0.61 (1)	10.00			
Q-AW	0/3928	-18.5	-18.5 0.33 (1)	10.00			
AW-AX	0/3928	-18.5	-18.5 0.33 (1)	10.00			
AX-AY	0/3928	-18.5	-18.5 0.33 (1)	10.00			
AY-P	0/3928	-18.5	-18.5 0.33 (1)	10.00			
P-AZ	0/3754	-18.5	-18.5 0.32 (1)	10.00			
AZ-O	0/3754	-18.5	-18.5 0.32 (1)	10.00			
N-O	0/17	0.0	0.0 0.09 (1)	10.00			
O-J	-357/0	0.0	0.0 0.09 (1)	7.81			
N-M	0/108	-18.5	-18.5 0.01 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-11-8	-30	-30		FRONT	VERT	DEAD		C1
C	2-11-8	-127	-127		FRONT	VERT	SNOW		C1
D	9-8-4	-76	-76		FRONT	VERT	TOTAL		C1
G	23-8-4	-76	-76		FRONT	VERT	TOTAL		C1
I	32-11-8	-30	-30		FRONT	VERT	DEAD		C1
I	32-11-8	-77	-77		FRONT	VERT	TOTAL		C1
I	32-11-8	-127	-127		FRONT	VERT	SNOW		C1
O	34-3-4	-28	-28		FRONT	VERT	TOTAL		C1
S	23-7-4	-28	-28		FRONT	VERT	TOTAL		C1
U	11-8-4	-21	-21		FRONT	VERT	TOTAL		C1
V	9-8-4	-21	-21		FRONT	VERT	TOTAL		C1
Y	3-8-4	-85	-85		FRONT	VERT	TOTAL		C1
Z	5-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AA	7-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AB	11-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AC	13-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AD	15-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AE	17-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AF	19-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AG	21-8-4	-76	-76		FRONT	VERT	TOTAL		C1
AH	24-8-4	-73	-73		FRONT	VERT	TOTAL		C1
AI	26-8-4	-73	-73		FRONT	VERT	TOTAL		C1
AJ	28-8-4	-73	-73		FRONT	VERT	TOTAL		C1
AK	30-8-4	-73	-73		FRONT	VERT	TOTAL		C1
AL	1-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AM	3-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AN	5-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AO	7-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AP	13-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AQ	15-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AR	17-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AS	19-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AT	21-8-4	-21	-21		FRONT	VERT	TOTAL		C1
AU	24-8-4	-68	-68		FRONT	VERT	TOTAL		C1
AV	26-8-4	-68	-68		FRONT	VERT	TOTAL		C1
AW	28-8-4	-68	-68		FRONT	VERT	TOTAL		C1
AX	30-8-4	-68	-68		FRONT	VERT	TOTAL		C1
AY	32-8-4	-68	-68		FRONT	VERT	TOTAL		C1
AZ	33-8-4	-71	-71		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

JSI GRIP= 0.87 (V) (INPUT = 0.90)
JSI METAL= 0.64 (U) (INPUT = 1.00)



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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.25
C	TTWW+m	MT20	5.0	8.0	2.50	2.25
D, E, H						
D	TMVW-t	MT20	5.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMV+p	MT20	3.0	6.0		
I	TTWW+m	MT20	6.0	9.0	Edge	
J	TMVW+p	MT20	4.0	4.0	1.00	2.00
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMVW1-t	MT20	5.0	6.0		
N	BMV+p	MT20	3.0	6.0		
O	BVMW1-t	MT20	6.0	12.0	3.25	7.50
P	BMVW-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.50
R	BVMW1-t	MT20	8.0	12.0	4.75	4.25
S	BMV+p	MT20	3.0	6.0		
T	BMVW1-t	MT20	6.0	10.0	2.75	2.50
U	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	5.0	6.0	2.50	2.75
W	BMVW-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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
AT-AU	0 / 8695	-18.5	-18.5	0.65 (1)	10.00		
AU-O	0 / 8695	-18.5	-18.5	0.65 (1)	10.00		
Q-AV	0 / 3974	-18.5	-18.5	0.34 (1)	10.00		
AV-AW	0 / 3974	-18.5	-18.5	0.34 (1)	10.00		
AW-P	0 / 3974	-18.5	-18.5	0.34 (1)	10.00		
P-AX	0 / 3799	-18.5	-18.5	0.33 (1)	10.00		
AX-O	0 / 3799	-18.5	-18.5	0.33 (1)	10.00		
N-O	0 / 17	0.0	0.0	0.09 (1)	10.00		
O-J	-360 / 0	0.0	0.0	0.09 (1)	7.81		
N-M	0 / 110	-18.5	-18.5	0.01 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-11-8	-30	-30		FRONT	VERT	DEAD		C1
C	2-11-8	-127	-127		FRONT	VERT	SNOW		C1
D	9-8-12	-76	-76		BACK	VERT	TOTAL		C1
G	22-9-12	-73	-73		BACK	VERT	TOTAL		C1
I	32-11-8	-30	-30		FRONT	VERT	DEAD		C1
I	32-11-8	-78	-78		BACK	VERT	TOTAL		C1
I	32-11-8	-127	-127		FRONT	VERT	SNOW		C1
O	34-3-4	-28	-28		BACK	VERT	TOTAL		C1
P	32-9-12	-68	-68		BACK	VERT	TOTAL		C1
S	22-7-4	-74	-74		BACK	VERT	TOTAL		C1
T	15-8-12	-21	-21		BACK	VERT	TOTAL		C1
U	13-8-12	-21	-21		BACK	VERT	TOTAL		C1
V	9-8-12	-21	-21		BACK	VERT	TOTAL		C1
Y	3-8-12	-83	-83		BACK	VERT	TOTAL		C1
Z	5-8-12	-76	-76		BACK	VERT	TOTAL		C1
AA	7-8-12	-76	-76		BACK	VERT	TOTAL		C1
AB	11-8-12	-76	-76		BACK	VERT	TOTAL		C1
AC	13-8-12	-76	-76		BACK	VERT	TOTAL		C1
AD	15-8-12	-76	-76		BACK	VERT	TOTAL		C1
AE	17-8-12	-76	-76		BACK	VERT	TOTAL		C1
AF	19-8-12	-76	-76		BACK	VERT	TOTAL		C1
AG	21-8-12	-76	-76		BACK	VERT	TOTAL		C1
AH	24-9-12	-73	-73		BACK	VERT	TOTAL		C1
AI	26-9-12	-73	-73		BACK	VERT	TOTAL		C1
AJ	28-9-12	-73	-73		BACK	VERT	TOTAL		C1
AK	30-9-12	-73	-73		BACK	VERT	TOTAL		C1
AL	1-8-12	-21	-21		BACK	VERT	TOTAL		C1
AM	3-8-12	-21	-21		BACK	VERT	TOTAL		C1
AN	5-8-12	-21	-21		BACK	VERT	TOTAL		C1
AO	7-8-12	-21	-21		BACK	VERT	TOTAL		C1
AP	11-8-12	-21	-21		BACK	VERT	TOTAL		C1
AO	17-8-12	-21	-21		BACK	VERT	TOTAL		C1
AR	19-8-12	-21	-21		BACK	VERT	TOTAL		C1
AS	21-8-12	-22	-22		BACK	VERT	TOTAL		C1
AT	24-9-12	-68	-68		BACK	VERT	TOTAL		C1
AU	26-9-12	-68	-68		BACK	VERT	TOTAL		C1
AV	28-9-12	-68	-68		BACK	VERT	TOTAL		C1
AW	30-9-12	-68	-68		BACK	VERT	TOTAL		C1
AX	33-10-12	-73	-73		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

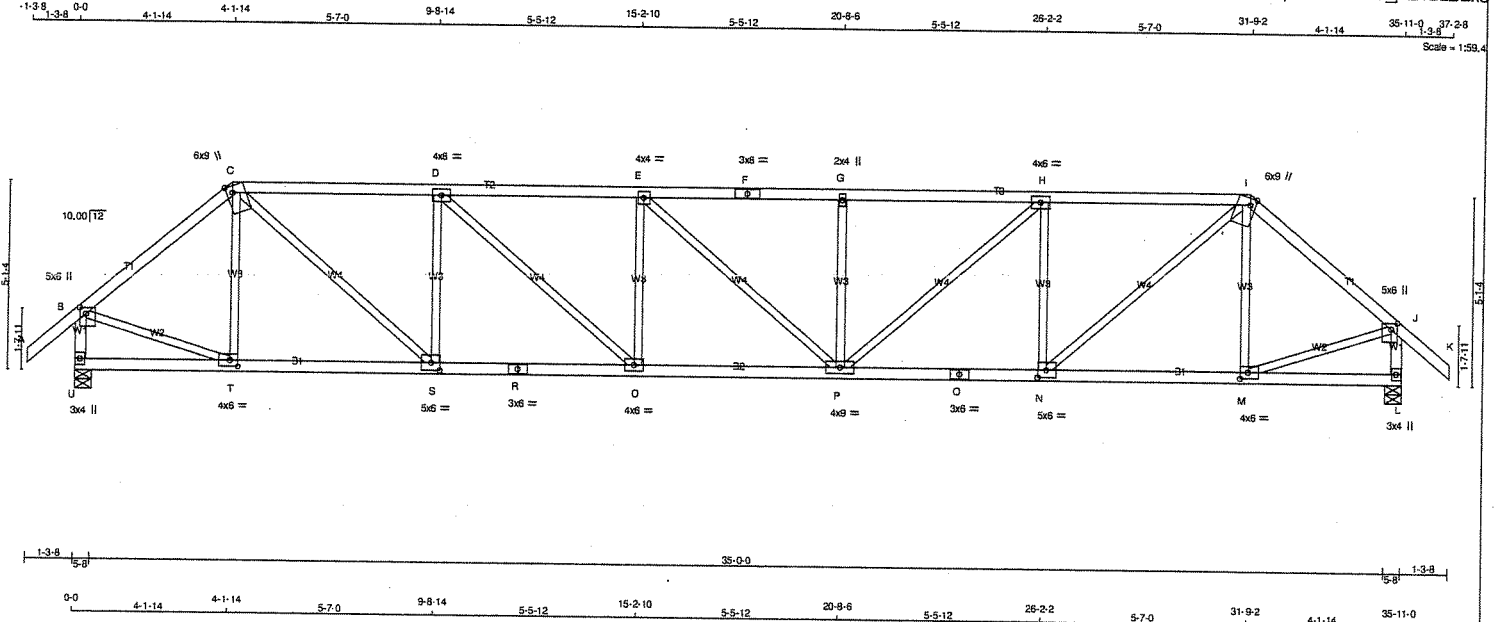
JSI GRIP= 0.89 (Q) (INPUT = 0.90)
JSI METAL= 0.62 (T) (INPUT = 1.00)



Structural component only
DWG# T-2115280

JOB NAME 410965	TRUSS NAME T2	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. Fri May 21 15:56:59 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-5q9MRJdCnqO16BEFhvPYqilPSwYIXexO_jKu1BzEEEx



TOTAL WEIGHT = 149 lb

LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - K	2x4	DRY	No.2
U - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	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
B	TMWV+p	MT20	5.0	6.0	2.00	2.00
C	TTWW+m	MT20	6.0	9.0	Edge	1.75
D	TMWV-t	MT20	4.0	6.0		
E	TMWV-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWV-w	MT20	2.0	4.0		
H	TMWV-t	MT20	4.0	6.0		
I	TTWW+m	MT20	6.0	9.0	Edge	1.75
J	TMWV+p	MT20	5.0	6.0	2.00	2.00
L	BMV1+p	MT20	3.0	4.0		
M	BMWV-t	MT20	4.0	6.0	2.00	2.50
N	BMWV-t	MT20	5.0	6.0	2.50	2.75
O	BS-t	MT20	3.0	6.0		
P	BMWVW-t	MT20	4.0	9.0		
Q	BMWV-t	MT20	4.0	6.0		
R	BS-t	MT20	3.0	6.0		
S	BMWV-t	MT20	5.0	6.0	2.50	2.75
T	BMWV-t	MT20	4.0	6.0	2.00	2.50
U	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
U	2107	0	2107	0	5-8
L	2107	0	2107	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0	0 / 0
L	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 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 = 3.09 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
MEMB.	FR-TO				MEMB.		
A-B	0 / 41	-91.8	-91.8	0.13 (1)	T-C	-368 / 0	0.14 (1)
B-C	-2007 / 0	-91.8	-91.8	0.36 (1)	C-S	0 / 1918	0.43 (1)
C-D	-2985 / 0	-91.8	-91.8	0.62 (1)	S-D	-1150 / 0	0.44 (1)
D-E	-3657 / 0	-91.8	-91.8	0.72 (1)	D-Q	0 / 894	0.20 (1)
E-F	-3656 / 0	-91.8	-91.8	0.59 (1)	E-P	-488 / 0	0.19 (1)
F-G	-3656 / 0	-91.8	-91.8	0.59 (1)	P-G	-2 / 0	0.00 (1)
G-H	-3656 / 0	-91.8	-91.8	0.72 (1)	H-I	-487 / 0	0.19 (1)
H-I	-2986 / 0	-91.8	-91.8	0.62 (1)	I-J	0 / 891	0.20 (1)
I-J	-2007 / 0	-91.8	-91.8	0.36 (1)	J-K	-1149 / 0	0.44 (1)
J-K	0 / 41	-91.8	-91.8	0.13 (1)	K-L	0 / 1919	0.43 (1)
U-B	-2078 / 0	0.0	0.0	0.22 (1)	M-I	-368 / 0	0.14 (1)
L-J	-2078 / 0	0.0	0.0	0.22 (1)	B-T	0 / 1608	0.36 (1)
U-T	0 / 0	-18.5	-18.5	0.10 (4)	M-J	0 / 1608	0.36 (1)
T-S	0 / 1530	-18.5	-18.5	0.31 (1)			
S-R	0 / 2986	-18.5	-18.5	0.53 (1)			
R-Q	0 / 2986	-18.5	-18.5	0.53 (1)			
O-P	0 / 3657	-18.5	-18.5	0.53 (1)			
P-O	0 / 2986	-18.5	-18.5	0.53 (1)			
O-N	0 / 2986	-18.5	-18.5	0.53 (1)			
N-M	0 / 1530	-18.5	-18.5	0.31 (1)			
M-L	0 / 0	-18.5	-18.5	0.10 (4)			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.22")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.42")

CSI: TC=0.72/1.00 (G-H:1), BC=0.64/1.00 (P-O:1),
WB=0.44/1.00 (D-S:1), SS=0.24/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.85 (J) (INPUT = 0.90)
JSI METAL= 0.93 (O) (INPUT = 1.00)

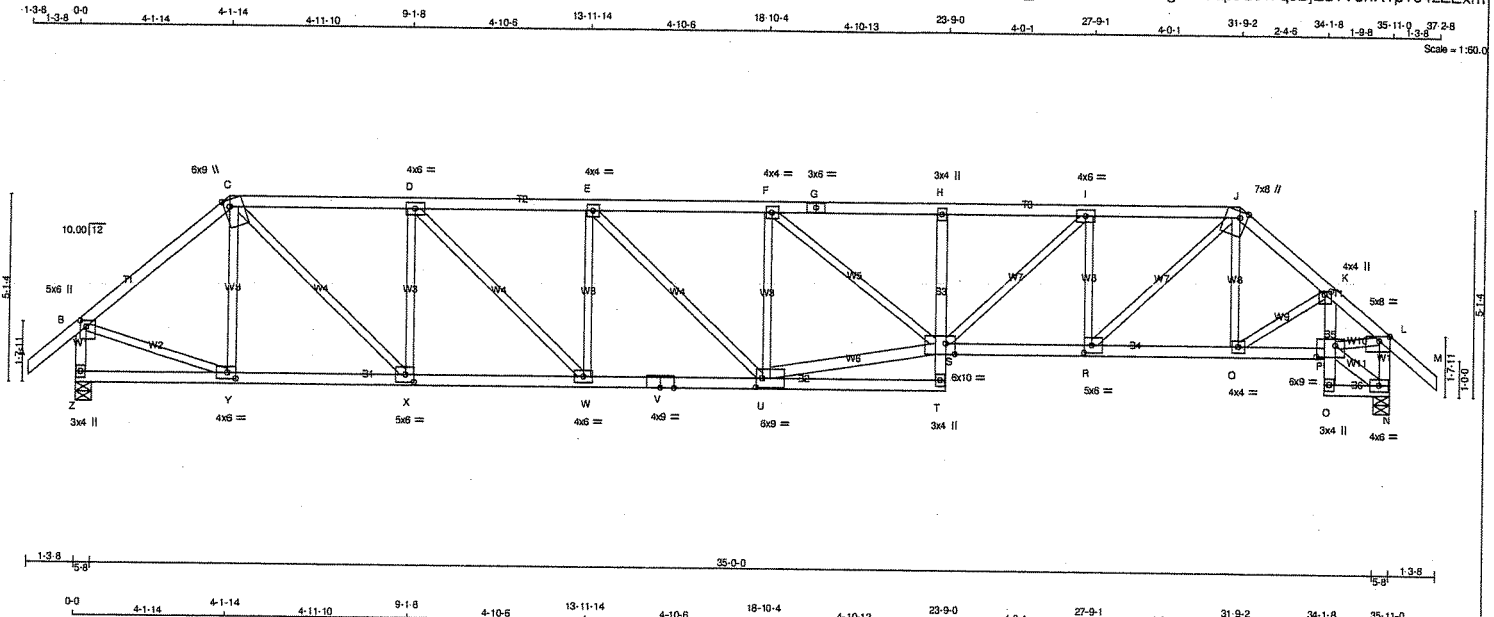


Structural component only
DWG# T-2115259

JOB NAME 410965	TRUSS NAME T2S	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. Fri May 21 15:57:01 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-1CH7s?fSJSgILVODpJS0v7qoBjEd?V3hR1p?64zeExm



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
J - M	2x4	DRY	No.2
Z - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
Z - V	2x4	DRY	No.2
V - T	2x4	DRY	No.2
T - H	2x4	DRY	No.2
S - P	2x4	DRY	No.2
O - K	2x4	DRY	No.2
O - N	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
U - S	2x4	DRY	No.2
P - N	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00 2.00
C	TTWW+m	MT20	6.0	9.0	Edge 1.75
D	TMVW-i	MT20	4.0	6.0	
E	TMVW-i	MT20	4.0	6.0	
F	TMVW-i	MT20	4.0	6.0	
G	TS-i	MT20	3.0	6.0	
H	TMV+p	MT20	3.0	6.0	
I	TMVW-i	MT20	4.0	6.0	
J	TTWW+m	MT20	7.0	8.0	Edge 2.25
K	TMVW+p	MT20	4.0	4.0	1.00 2.00
L	TMVW-p	MT20	5.0	8.0	1.50 3.50
N	BMVW1-i	MT20	4.0	6.0	
O	BMV+p	MT20	3.0	4.0	
P	BMVW-i	MT20	6.0	9.0	3.75 6.00
Q	BMVW-i	MT20	4.0	4.0	
R	BMVW-i	MT20	5.0	6.0	2.50 2.50
S	BMVW-i	MT20	6.0	10.0	Edge 3.00
T	BMV+p	MT20	3.0	4.0	
U	BMVW-i	MT20	6.0	9.0	3.00 2.00
V	BS-i	MT20	4.0	9.0	
W	BMVW-i	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	UPLIFT	IN-SX	IN-SX		
Z	2105	0	2105	0	0	5-8	5-8		
N	2109	0	2109	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Z	1486	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
N	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.04 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 41	Y-C	-373 / 0
B-C	-2003 / 0	U-F	-828 / 0
C-D	-2846 / 0	U-S	0 / 3693
D-E	-3542 / 0	F-S	0 / 582
E-F	-3718 / 0	S-I	0 / 1222
F-G	-4185 / 0	R-I	-1235 / 0
G-H	-4185 / 0	R-J	0 / 1929
H-I	-4215 / 0	Q-J	0 / 52
I-J	-3326 / 0	Q-K	-73 / 0
J-K	-2493 / 0	B-Y	0 / 1605
K-L	-2540 / 0	P-N	-75 / 0
L-M	0 / 41	P-L	0 / 1933
Z-B	-2074 / 0	E-U	0 / 251
N-L	-2052 / 0	C-X	0 / 1834
		W-E	-603 / 0
		X-D	-1185 / 0
		D-W	0 / 978
Z-Y	0 / 0		
Y-X	0 / 1526		
X-W	0 / 2847		
W-V	0 / 3542		
V-U	0 / 3542		
U-T	0 / 115		
T-S	0 / 40		
S-H	-381 / 0		
S-R	0 / 3326		
R-Q	0 / 1908		
Q-P	0 / 1972		
O-P	0 / 17		
P-K	-96 / 0		
O-N	0 / 62		

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, NBCO 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBCO 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.

(5% 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) = U/999 (0.24")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = U/929 (0.46")

CSI: TC=0.58/1.00 (F-H:1), BC=0.62/1.00 (U-W:1), WB=0.59/1.00 (S-U:1), SS=0.21/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.85 (L) (INPUT = 0.90)

JSI METAL = 0.79 (V) (INPUT = 1.00)



Structural component only
DWG# T-2115260

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T2S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:01 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-1CH7s?fSJsglLVOpJS0v7qoBjEd?V3hR1p?64zEExm

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
X	BMW-t	MT20	5.0	6.0	2.50	2.75
Y	BMW-t	MT20	4.0	6.0	2.00	2.50
Z	BMV1+p	MT20	3.0	4.0		

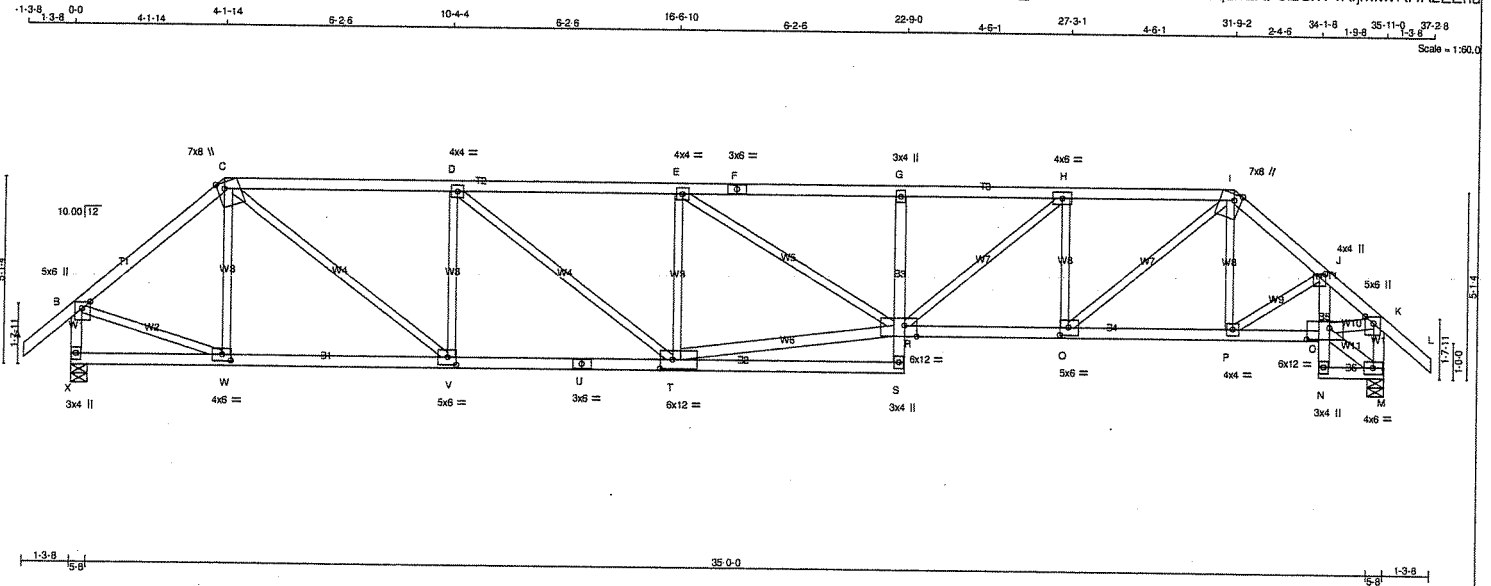
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

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



Structural component only
DWG# T-2115260 242

JOB NAME 410966	TRUSS NAME T2S1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 16:07:33 2021 Page 1 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-WoT2V5iuUd14Adi5q2nEXP0i2UxY4KfjmMvRHRzEEu	



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
X - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
X - U	2x4	DRY	No.2
U - S	2x4	DRY	No.2
S - G	2x4	DRY	No.2
R - O	2x4	DRY	No.2
N - J	2x4	DRY	No.2
N - M	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
T - R	2x4	DRY	No.2
O - M	2x4	DRY	No.2
O - K	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW+p	MT20	5.0	8.0	Edge 2.75
C TTWW+m	MT20	7.0	8.0	Edge 2.25
D TMVW-t	MT20	4.0	4.0	
E TMVW-t	MT20	4.0	4.0	
F TS-t	MT20	3.0	6.0	
G TMV+p	MT20	3.0	4.0	
H TMVW-t	MT20	4.0	6.0	
I TTWW+m	MT20	7.0	8.0	Edge 2.25
J TMVW+p	MT20	4.0	4.0	1.00 2.00
K TMVW+p	MT20	5.0	6.0	Edge 2.75
M BMVW-t	MT20	4.0	6.0	
N BMV+p	MT20	3.0	4.0	
O BVVWV-t	MT20	6.0	12.0	3.75 7.50
P BMVW-t	MT20	4.0	4.0	
Q BMVW-t	MT20	5.0	6.0	2.50 2.75
R BVVWV-t	MT20	6.0	12.0	Edge 4.25
S BMV+p	MT20	3.0	4.0	
T BMVWV-t	MT20	6.0	12.0	3.00 4.00
U BS-t	MT20	3.0	6.0	
V BMVW-t	MT20	5.0	6.0	2.50 2.75

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	SNOW	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
X	2105	0	2105	0	0	5-8	5-8		
M	2109	0	2109	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
X	1486	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
M	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 2.76 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		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 / 41	-91.8	-91.8	0.13 (1)	10.00	W-C	-359 / 0	0.14 (1)
B-C	-2007 / 0	-91.8	-91.8	0.36 (1)	4.41	C-V	0 / 2000	0.45 (1)
C-D	-3117 / 0	-91.8	-91.8	0.83 (1)	3.21	V-D	-1110 / 0	0.43 (1)
D-E	-3724 / 0	-91.8	-91.8	0.94 (1)	2.86	D-T	0 / 775	0.17 (1)
E-F	-4349 / 0	-91.8	-91.8	0.91 (1)	2.76	T-E	-943 / 0	0.36 (1)
F-G	-4349 / 0	-91.8	-91.8	0.91 (1)	2.76	T-R	0 / 3646	0.59 (1)
G-H	-4387 / 0	-91.8	-91.8	0.61 (1)	2.93	E-R	0 / 719	0.16 (1)
H-I	-3472 / 0	-91.8	-91.8	0.45 (1)	3.43	R-H	0 / 1194	0.27 (1)
I-J	-2495 / 0	-91.8	-91.8	0.17 (1)	4.22	Q-H	-1201 / 0	0.31 (1)
J-K	-2547 / 0	-91.8	-91.8	0.19 (1)	4.16	O-I	0 / 2023	0.46 (1)
K-L	0 / 41	-91.8	-91.8	0.13 (1)	10.00	P-I	0 / 57	0.02 (4)
X-B	-2078 / 0	0.0	0.0	0.22 (1)	5.87	P-J	-74 / 0	0.01 (1)
M-K	-2055 / 0	0.0	0.0	0.22 (1)	5.90	B-W	0 / 1608	0.36 (1)
						O-M	-68 / 0	0.01 (1)
						O-K	0 / 1939	0.31 (1)
X-W	0 / 0	-18.5	-18.5	0.12 (4)	10.00			
W-V	0 / 1530	-18.5	-18.5	0.32 (1)	10.00			
V-U	0 / 3117	-18.5	-18.5	0.58 (1)	10.00			
U-T	0 / 3117	-18.5	-18.5	0.58 (1)	10.00			
T-S	0 / 143	-18.5	-18.5	0.17 (4)	10.00			
S-R	0 / 51	0.0	0.0	0.20 (1)	10.00			
R-G	-479 / 0	0.0	0.0	0.22 (1)	7.81			
R-O	0 / 3472	-18.5	-18.5	0.61 (1)	10.00			
Q-P	0 / 1909	-18.5	-18.5	0.35 (1)	10.00			
P-O	0 / 1974	-18.5	-18.5	0.36 (1)	10.00			
N-O	0 / 17	0.0	0.0	0.09 (1)	10.00			
O-J	-95 / 0	0.0	0.0	0.09 (1)	7.81			
N-M	0 / 56	-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

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

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) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.26")
ALLOWABLE DEFL.(TL) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(TL) = $L/840$ (0.51")

CSI: TC=0.94/1.00 (D-E-1), BC=0.61/1.00 (Q-R-1), WB=0.59/1.00 (R-T-1), SS=0.27/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (B) (INPUT = 0.90)
JSI METAL = 0.96 (U) (INPUT = 1.00)



Structural component only
DWG# T-2115281

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410966	T2S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 16:07:33 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-W6T2V5luUdl4Adi5q2nEXP0i2UxY4KfjmMvRHRzEEnu

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	BMWV-t	MT20	4.0	6.0	2.00	2.75
X	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

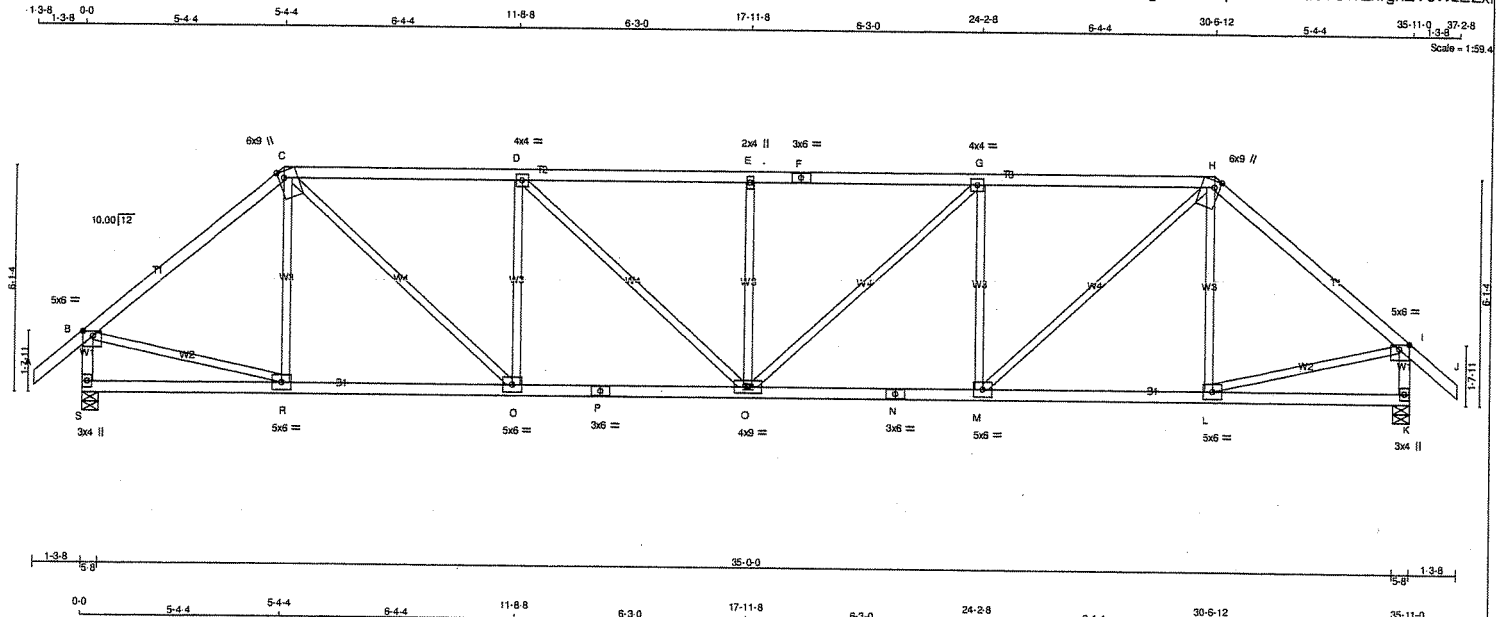


Structural component only
DWG# T-2115281 *SP2*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T3	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri May 21 15:57:02 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-VPv3Lg44loczfzqM1zFSLNu07cVkhgrhZYeWzEExl



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
S - P	2x4	DRY	No.2
P - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	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	1.50	3.25
C	TTWW+m	MT20	6.0	9.0	Edge	1.75
D	TMWV-t	MT20	4.0	4.0		
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWV-t	MT20	4.0	4.0		
H	TTWW+m	MT20	6.0	9.0	Edge	1.75
I	TMWV-p	MT20	5.0	6.0	1.50	3.25
K	BMV1-p	MT20	3.0	4.0		
L, M, Q, R						
L	BMWV-t	MT20	5.0	6.0		
N	BS-t	MT20	3.0	6.0		
O	BMWV-t	MT20	4.0	9.0		
P	BS-t	MT20	3.0	6.0		
S	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	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
S	2107	0	2107	0
K	2107	0	2107	0

UNFACTORED REACTIONS

JT	1ST LOASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
K	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 3.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1	MAX UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1
FR-TO		FROM	TO		FR-TO		
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	R-C	-254 / 6
B-C	-2054 / 0	-91.8	-91.8	0.65 (1)	4.06	C-Q	0 / 1612
C-D	-2762 / 0	-91.8	-91.8	0.81 (1)	3.36	Q-D	-972 / 0
D-E	-3108 / 0	-91.8	-91.8	0.87 (1)	3.14	D-O	0 / 472
E-F	-3108 / 0	-91.8	-91.8	0.87 (1)	3.14	O-E	-529 / 0
F-G	-3108 / 0	-91.8	-91.8	0.87 (1)	3.14	O-G	0 / 472
G-H	-2762 / 0	-91.8	-91.8	0.81 (1)	3.36	M-G	-972 / 0
H-I	-2054 / 0	-91.8	-91.8	0.65 (1)	4.06	M-H	0 / 1612
I-J	0 / 41	-91.8	-91.8	0.13 (1)	10.00	L-H	-254 / 6
S-B	-2068 / 0	0.0	0.0	0.22 (1)	5.88	B-R	0 / 1619
K-I	-2068 / 0	0.0	0.0	0.22 (1)	5.88	L-I	0 / 1619
S-R	0 / 0	-18.5	-18.5	0.15 (4)	10.00		
R-Q	0 / 1570	-18.5	-18.5	0.34 (1)	10.00		
Q-P	0 / 2762	-18.5	-18.5	0.51 (1)	10.00		
P-O	0 / 2762	-18.5	-18.5	0.51 (1)	10.00		
O-N	0 / 2762	-18.5	-18.5	0.51 (1)	10.00		
N-M	0 / 2762	-18.5	-18.5	0.51 (1)	10.00		
M-L	0 / 1570	-18.5	-18.5	0.34 (1)	10.00		
L-K	0 / 0	-18.5	-18.5	0.15 (4)	10.00		

TOTAL WEIGHT = 150 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.31")

CSI: TC=0.87/1.00 (E-G:1), BC=0.51/1.00 (M-O:1), WB=0.57/1.00 (D-Q:1), SS=0.27/1.00 (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= 0.86 (I) (INPUT = 0.90)

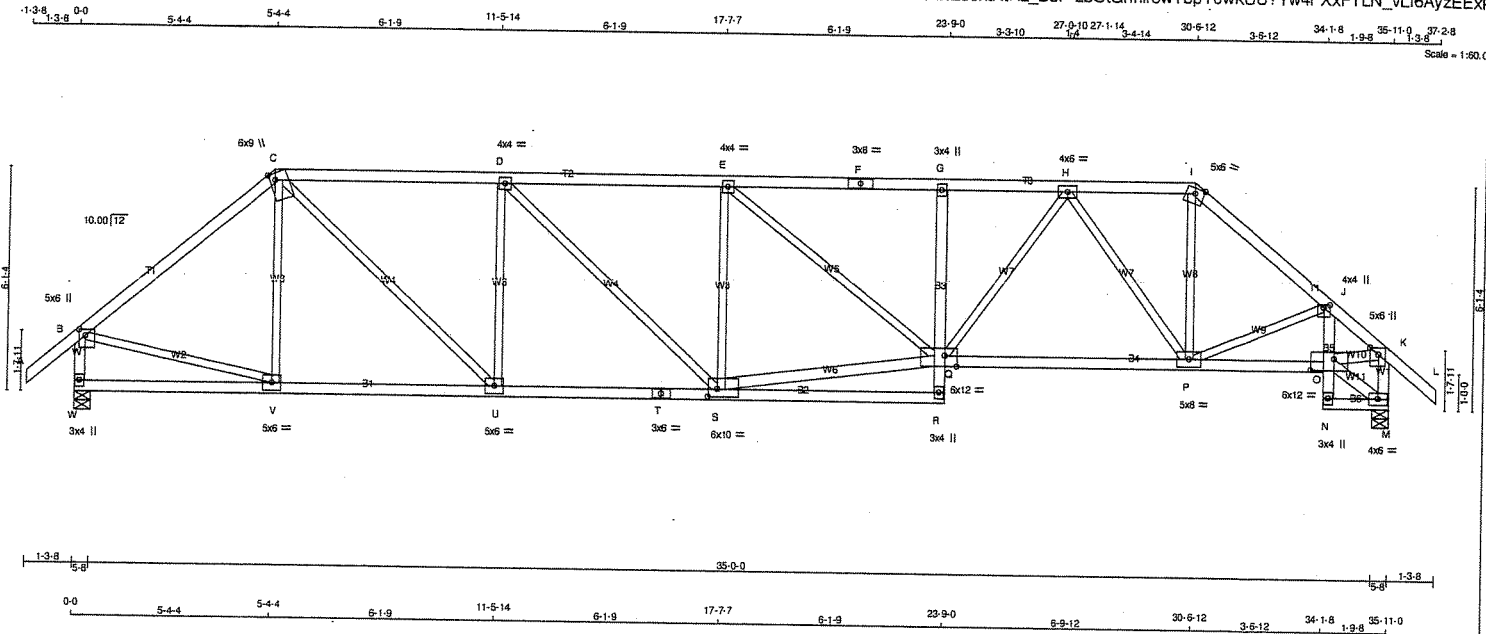
JSI METAL= 0.87 (P) (INPUT = 1.00)



Structural component only
DWG# T-2115261

JOB NAME 410965	TRUSS NAME T3S	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. Fri May 21 15:57:03 2021 Page 1
 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-zbOtGhhir3wTbpY0wkUU?Yw4FXFTLN_vL16AyzEEExk



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQD BRG IN-SX
JT	VERT 2105	DOWN 2105	0	5-8
W	HORZ 0	HORZ 0	0	5-8
M	0	0	0	5-8

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0	0 / 0
W	1486	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0	0 / 0
M	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 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 = 3.23 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.

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.00
C	TTWW+m	MT20	6.0	9.0	Edge	1.75
D	TMVW-t	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMV+p	MT20	3.0	4.0		
H	TMVW-t	MT20	4.0	6.0		
I	TTW-m	MT20	5.0	6.0	Edge	
J	TMVW+p	MT20	4.0	4.0	1.00	2.00
K	TMVW+p	MT20	5.0	6.0	Edge	2.75
M	BMVW-t	MT20	4.0	6.0		
N	BMV+p	MT20	3.0	4.0		
O	BVMW-t	MT20	6.0	12.0	3.75	7.50
P	BVMW-t	MT20	5.0	8.0		
Q	BVMW-t	MT20	6.0	12.0	Edge	4.00
R	BMV+p	MT20	3.0	4.0		
S	BVMW-t	MT20	6.0	10.0	2.50	3.00
T	BS-t	MT20	3.0	6.0		
U	BMW-t	MT20	5.0	6.0		
V	BMW-t	MT20	5.0	6.0		

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX. FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LBS)	MEMB.	FORCE (LBS)	MAX. FACTORED (LBS)	MEMB.	FORCE (LBS)	MAX. FACTORED (LBS)
FR-TO				FR-TO			FR-TO		
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	V-C	-254 / 6	0.15 (1)		
B-C	-2051 / 0	-91.8	-91.8 0.64 (1)	4.06	C-U	0 / 1592	0.36 (1)		
C-D	-2730 / 0	-91.8	-91.8 0.74 (1)	3.47	U-D	-983 / 0	0.58 (1)		
D-E	-3103 / 0	-91.8	-91.8 0.79 (1)	3.23	D-S	0 / 519	0.12 (1)		
E-F	-3337 / 0	-91.8	-91.8 0.69 (1)	3.29	S-E	-735 / 0	0.43 (1)		
F-G	-3337 / 0	-91.8	-91.8 0.69 (1)	3.29	S-Q	0 / 3064	0.49 (1)		
G-H	-3356 / 0	-91.8	-91.8 0.42 (1)	3.46	E-Q	0 / 288	0.06 (1)		
H-I	-1910 / 0	-91.8	-91.8 0.20 (1)	4.69	Q-H	0 / 1068	0.24 (1)		
I-J	-2468 / 0	-91.8	-91.8 0.28 (1)	4.15	H-P	-1425 / 0	0.86 (1)		
J-K	-2575 / 0	-91.8	-91.8 0.19 (1)	4.14	P-I	0 / 1274	0.29 (1)		
K-L	0 / 41	-91.8	-91.8 0.13 (1)	10.00	P-J	-142 / 0	0.04 (1)		
W-B	-2066 / 0	0.0	0.0 0.22 (1)	5.89	B-V	0 / 1617	0.36 (1)		
M-K	-2055 / 0	0.0	0.0 0.22 (1)	5.90	Q-M	-69 / 0	0.01 (1)		
					C-K	0 / 1980	0.32 (1)		
W-V	0 / 0	-18.5	-18.5 0.15 (4)	10.00					
V-U	0 / 1568	-18.5	-18.5 0.34 (1)	10.00					
U-T	0 / 2730	-18.5	-18.5 0.52 (1)	10.00					
T-S	0 / 2730	-18.5	-18.5 0.52 (1)	10.00					
S-R	0 / 90	-18.5	-18.5 0.17 (4)	10.00					
R-Q	0 / 50	0.0	0.0 0.13 (1)	10.00					
Q-G	-452 / 0	0.0	0.0 0.18 (1)	7.81					
P-Q	0 / 2734	-18.5	-18.5 0.54 (1)	10.00					
P-O	0 / 2013	-18.5	-18.5 0.42 (1)	10.00					
N-O	0 / 17	0.0	0.0 0.09 (1)	10.00					
O-J	-127 / 0	0.0	0.0 0.09 (1)	7.81					
N-M	0 / 56	-18.5	-18.5 0.02 (4)	10.00					

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 (1.20")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
 ALLOWABLE DEFL.(TL)= L/360 (1.20")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.79/1.00 (D-E:1), BC=0.54/1.00 (P-Q:1), WB=0.86/1.00 (H-P:1), SSI=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.90)
 JSI METAL = 0.79 (T) (INPUT = 1.00)



Structural component only
 DWG# T-2115262

JOB NAME 410965	TRUSS NAME T3S	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. Fri May 21 15:57:03 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-zbOtGhhir3wTbpY0wkUU?Yw4FXxFTLN vL16AyzEEyk

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	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



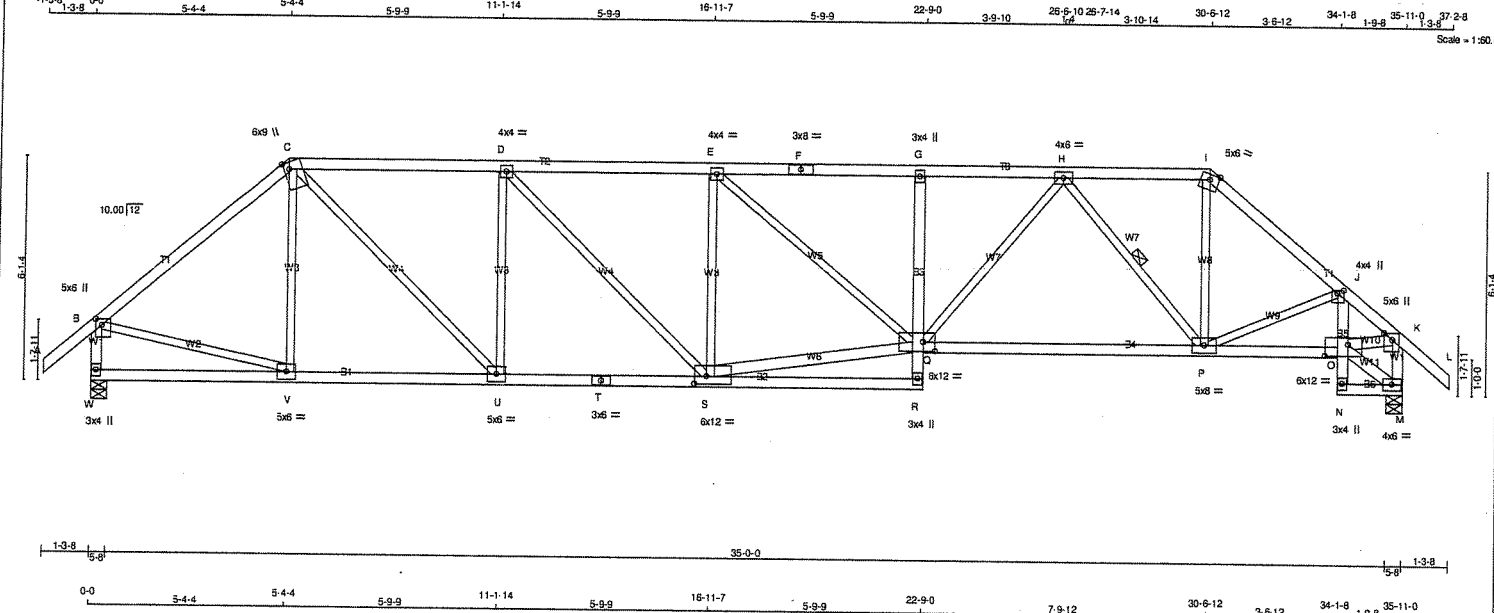
Structural component only
DWG# T-2115262 *in*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410966	T3S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 16:07:34 2021 Page 1

ID:GAonzd6DLBrd2xE89xtNtRz_BuP-?_1QIRJWEXQnnHIOmJT3cYxWuH6pnss?0f?puzeEnt



LUMBER

N.L.G.A. RULES

CHORDS SIZE LUMBER DESCR.

A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
L - M	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
K - J	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
C - B	2x4	DRY	No.2	SPF
B - A	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
S - Q	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF
O - K	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	6.0	2.00	2.00
C TTWW+m	MT20	6.0	9.0	Edge	1.75
D TMVW-t	MT20	4.0	4.0		
E TMVW-t	MT20	4.0	4.0		
F TS-t	MT20	3.0	8.0		
G TMV+p	MT20	3.0	4.0		
H TMVW-t	MT20	4.0	6.0		
I TTW-m	MT20	5.0	6.0	Edge	
J TMVW+p	MT20	4.0	4.0	1.00	2.00
K TMVW+p	MT20	5.0	6.0	Edge	2.75
M BMVW1-t	MT20	4.0	6.0		
N BMV+p	MT20	3.0	4.0		
O BVWWW-t	MT20	6.0	12.0	3.75	7.50
P BVWWW-t	MT20	5.0	8.0		
Q BVWWW-t	MT20	6.0	12.0	3.00	4.00
R BMV+p	MT20	3.0	4.0		
S BVWWW-t	MT20	6.0	12.0	2.50	4.00
T BS-t	MT20	3.0	6.0		
U BMVW-t	MT20	5.0	6.0		
V BMVW-t	MT20	5.0	6.0		

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
W	2105	0	2105	0	0	5-8	5-8
M	2109	0	2109	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	1486	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
M	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 3.30 FT.
MAX. UNBRACED 80TOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF H-P.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	V-C	-257 / 2	0.15 (1)
B-C	-2050 / 0	-91.8	-91.8 0.64 (1)	4.06	C-U	0 / 1567	0.35 (1)
C-D	-2681 / 0	-91.8	-91.8 0.65 (1)	3.61	U-D	-1004 / 0	0.59 (1)
D-E	-3087 / 0	-91.8	-91.8 0.70 (1)	3.34	D-S	0 / 582	0.13 (1)
E-F	-3452 / 0	-91.8	-91.8 0.82 (1)	3.30	S-E	-824 / 0	0.48 (1)
F-G	-3452 / 0	-91.8	-91.8 0.82 (1)	3.30	S-Q	0 / 3055	0.49 (1)
G-H	-3470 / 0	-91.8	-91.8 0.82 (1)	3.43	E-Q	0 / 465	0.10 (1)
H-I	-1915 / 0	-91.8	-91.8 0.24 (1)	4.64	Q-H	0 / 993	0.22 (1)
I-J	-2475 / 0	-91.8	-91.8 0.28 (1)	4.14	H-P	-1468 / 0	0.40 (1)
J-K	-2575 / 0	-91.8	-91.8 0.19 (1)	4.14	P-I	0 / 1266	0.28 (1)
K-L	0 / 41	-91.8	-91.8 0.13 (1)	10.00	I-J	-136 / 0	0.04 (1)
L-M	-2065 / 0	0.0	0.0 0.22 (1)	5.89	B-V	0 / 1616	0.36 (1)
M-K	-2055 / 0	0.0	0.0 0.22 (1)	5.90	O-M	-69 / 0	0.01 (1)
					O-K	0 / 1980	0.32 (1)
W-V	0 / 0	-18.5	-18.5 0.14 (4)	10.00			
V-U	0 / 1567	-18.5	-18.5 0.33 (1)	10.00			
U-T	0 / 2681	-18.5	-18.5 0.50 (1)	10.00			
T-S	0 / 2681	-18.5	-18.5 0.50 (1)	10.00			
S-R	0 / 88	-18.5	-18.5 0.15 (4)	10.00			
R-Q	0 / 47	0.0	0.0 0.13 (1)	10.00			
Q-P	-440 / 0	0.0	0.0 0.17 (1)	7.81			
P-O	0 / 2840	-18.5	-18.5 0.59 (1)	10.00			
O-N	0 / 2013	-18.5	-18.5 0.46 (1)	10.00			
N-O	0 / 17	0.0	0.0 0.09 (1)	10.00			
O-J	-134 / 0	0.0	0.0 0.09 (1)	7.81			
N-M	0 / 56	-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

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

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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.70/1.00 (D-E:1), BC=0.59/1.00 (P-Q:1),
WB=0.59/1.00 (D-U:1), SS=0.25/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)
JSI METAL= 0.83 (T) (INPUT = 1.00)



Structural component only
DWG# T-2115282

JOB NAME 410966	TRUSS NAME T3S1	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. Fri May 21 16:07:34 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-? 1QIRJWExQxnnHlOmJT3cYxWuH6pnss?0f?puzeEnt

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
W	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



Structural component only
DWG# T-2115282 *2/2*

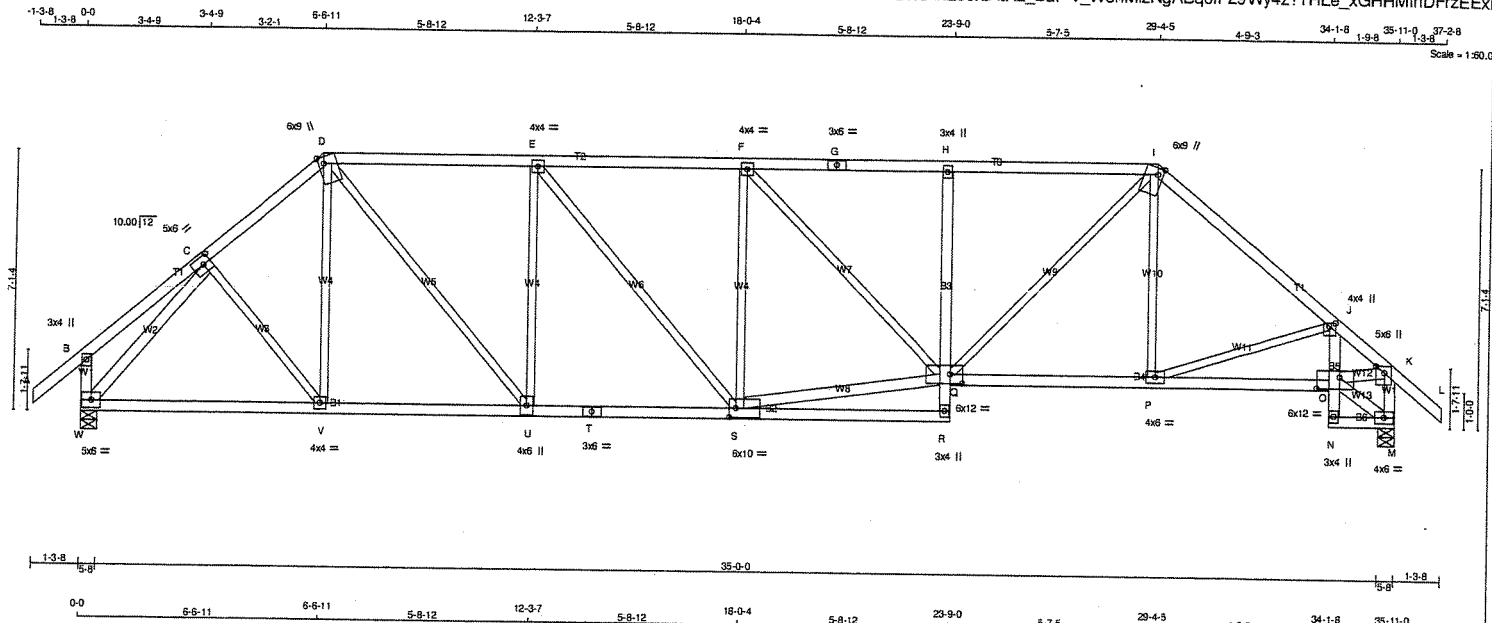
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:04 2021 Page 1
ID:GAonzd6DLBr2xE89xtNtRz BuP-RnyFU0hKcN2KcV7C1IS2iYmSlex.l6Cn47722fPzEEv

13

Structural component only
DWG# T-2115263

JOB NAME 410965	TRUSS NAME T4S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:05 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-v_WehMizNgABq6iP29Wy4z?THLe_xGHfMfndFrzEExi



LUMBER				DESCR.	
N. L. G. A. RULES				BUILDING DESIGNER	
CHORDS	SIZE	LUMBER		BEARINGS	
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
G - I	2x4	DRY	No.2	SPF	
I - L	2x4	DRY	No.2	SPF	
W - B	2x4	DRY	No.2	SPF	
M - K	2x4	DRY	No.2	SPF	
W - T	2x4	DRY	No.2	SPF	
T - R	2x4	DRY	No.2	SPF	
R - H	2x4	DRY	No.2	SPF	
O - O	2x4	DRY	No.2	SPF	
N - J	2x4	DRY	No.2	SPF	
N - M	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
S - O	2x4	DRY	No.2	SPF	
W - C	2x4	DRY	No.2	SPF	
O - M	2x4	DRY	No.2	SPF	
O - K	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
W	2105	0	2105	0	0	5-8	5-8		
M	2109	0	2109	0	0	5-8	5-8		
<u>UNFACTORED REACTIONS</u>									
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
W	1488	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0		
M	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) W, M									
<u>BRACING</u>									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.									

CHORDS									
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED (LC1)	MAX. FACTORED (LC)	MAX. FACTORED UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)	MAX. FACTORED (LC)
FR-TO						FR-TO			
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	C-V	0 / 168	0.04 (1)	
B-C	0 / 20	-91.8	-91.8	0.14 (1)	10.00	V-D	0 / 76	0.03 (4)	
C-D	-2074 / 0	-91.8	-91.8	0.20 (1)	4.53	D-U	0 / 1276	0.29 (1)	
D-E	-2395 / 0	-91.8	-91.8	0.60 (1)	3.81	U-E	-883 / 0	0.77 (1)	
E-F	-2639 / 0	-91.8	-91.8	0.63 (1)	3.63	E-S	0 / 381	0.09 (1)	
F-G	-2787 / 0	-91.8	-91.8	0.62 (1)	3.56	S-F	-631 / 0	0.55 (1)	
G-H	-2787 / 0	-91.8	-91.8	0.62 (1)	3.56	S-Q	0 / 2625	0.42 (1)	
H-I	-2798 / 0	-91.8	-91.8	0.63 (1)	3.56	Q-Q	0 / 205	0.05 (1)	
I-J	-2409 / 0	-91.8	-91.8	0.44 (1)	4.06	O-I	0 / 1369	0.31 (1)	
J-K	-2622 / 0	-91.8	-91.8	0.30 (1)	3.97	P-I	0 / 147	0.05 (4)	
K-L	0 / 41	-91.8	-91.8	0.13 (1)	10.00	P-J	-265 / 0	0.12 (1)	
W-B	-244 / 0	0.0	0.0	0.03 (1)	7.81	W-C	-2329 / 0	0.71 (1)	
M-K	-2054 / 0	0.0	0.0	0.22 (1)	5.90	O-M	-70 / 0	0.01 (1)	
						O-K	0 / 2048	0.33 (1)	
W-V	0 / 1465	-18.5	-18.5	0.34 (1)	10.00				
V-U	0 / 1573	-18.5	-18.5	0.36 (1)	10.00				
U-T	0 / 2395	-18.5	-18.5	0.46 (1)	10.00				
T-S	0 / 2395	-18.5	-18.5	0.46 (1)	10.00				
S-R	0 / 60	-18.5	-18.5	0.15 (4)	10.00				
R-Q	0 / 46	0.0	0.0	0.09 (1)	10.00				
Q-H	-578 / 0	0.0	0.0	0.31 (1)	7.81				
Q-P	0 / 1832	-18.5	-18.5	0.38 (1)	10.00				
P-O	0 / 2081	-18.5	-18.5	0.42 (1)	10.00				
N-O	0 / 17	0.0	0.0	0.09 (1)	10.00				
O-J	-133 / 0	0.0	0.0	0.09 (1)	7.81				
N-M	0 / 58	-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

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

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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.63/1.00 (E-F:1), BC=0.46/1.00 (S-U:1), WB=0.77/1.00 (E-U:1), SS=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)
JSI METAL= 0.73 (T) (INPUT = 1.00)



Structural component only
DWG# T-2115264 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T4S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:05 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-v WehMizNgABq6iP29Wy4z?THLe xGHHMfnDFrzEExi

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMWW-t	MT20	4.0	4.0		
W	BMVW1-t	MT20	5.0	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

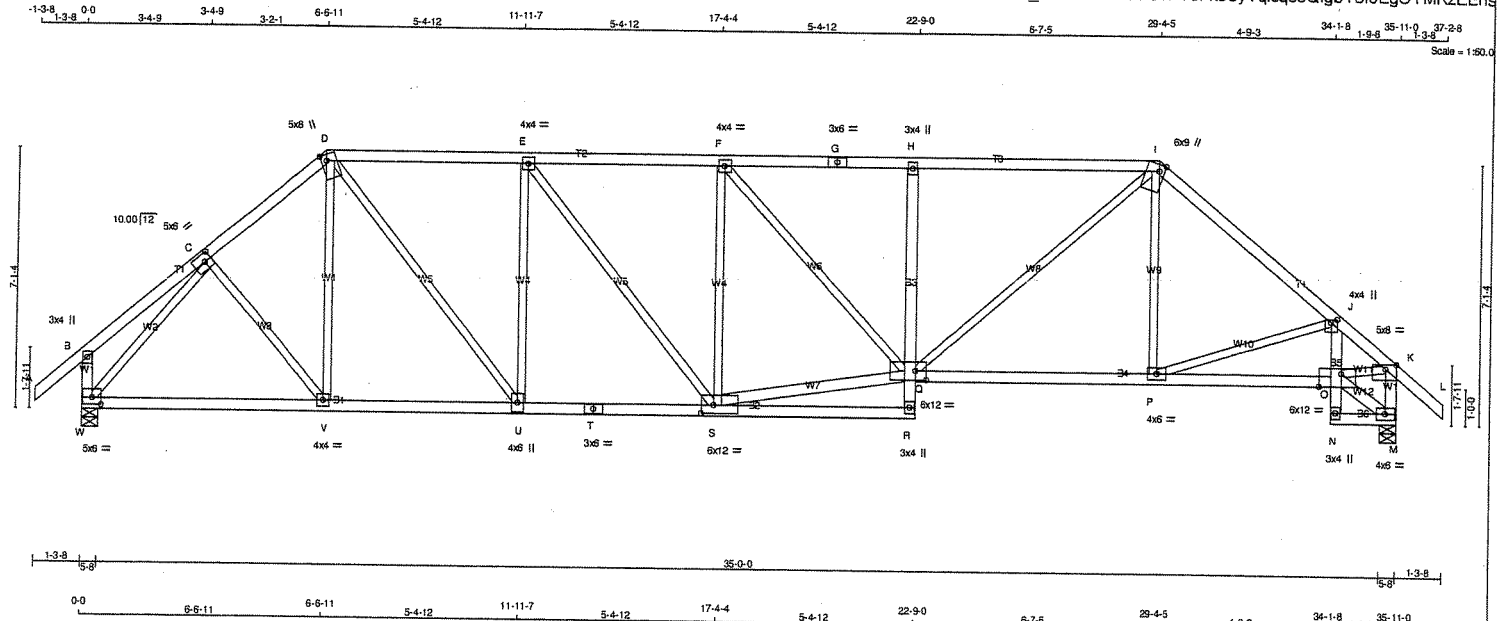


Structural component only
 DWG# T-2115264 *mn*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410966	T4S1	1	1	TRUSS DESC.		

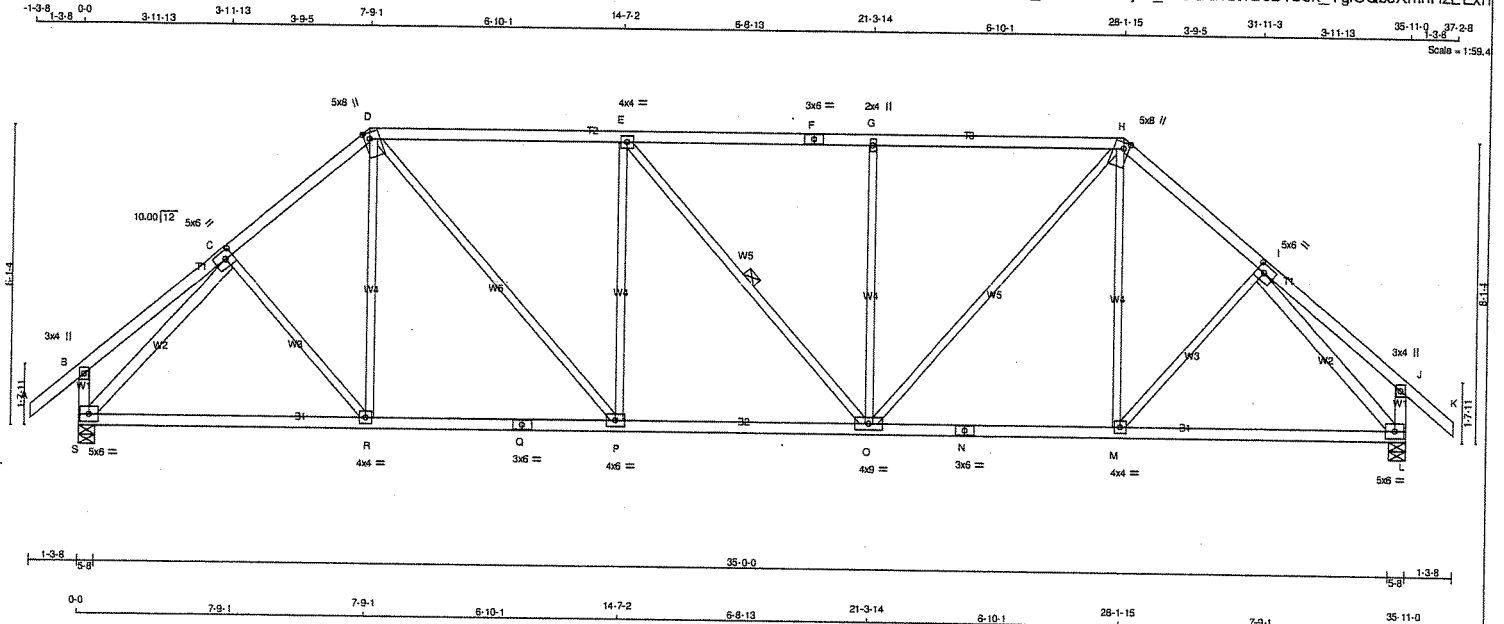
Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri May 21 16:07:35 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-TBaownK8?FY0PxsUyTqicq53QlgbY8f0EgOYMKzEEEns



JOB NAME 410965	TRUSS NAME T5	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. Fri May 21 15:57:06 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-NA40vijb8_J1SGGbbt1BcByb5k_YgiCQbJXmnHzEExh



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
S - C	2x4	DRY	2100F 1.8E
I - L	2x4	DRY	2100F 1.8E

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWV-t	MT20	5.0	6.0	2.50	2.50
D	TTWV+m	MT20	5.0	8.0	2.00	1.75
E	TMWV-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWV+m	MT20	2.0	4.0		
H	TTWV+m	MT20	5.0	8.0	2.00	1.75
I	TMWV-t	MT20	5.0	6.0	2.50	2.50
J	TMV+p	MT20	3.0	4.0		
L	BMWV-t	MT20	5.0	6.0		
M	BMWV-t	MT20	4.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMWV-t	MT20	4.0	9.0		
P	BMWV-t	MT20	4.0	6.0		
Q	BS-t	MT20	3.0	6.0		
R	BMWV-t	MT20	4.0	4.0		
S	BMWV-t	MT20	5.0	6.0		

NOTES:

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	RECORD
	VERT	HORZ	DOWN	HORZ
JT	2107	0	2107	0
S	2107	0	2107	0
L	2107	0	2107	0

UNFACTORED REACTIONS

	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
S	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
L	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-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. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MEMB.
FR-TO				FR-TO			
A-B	0 / 41	-91.8	-91.8	C-R	0 / 67	0.02 (4)	
B-C	0 / 26	-91.8	-91.8	R-D	0 / 125	0.04 (4)	
C-D	-2060 / 0	-91.8	-91.8	D-P	0 / 1055	0.24 (1)	
D-E	-2256 / 0	-91.8	-91.8	P-E	-675 / 0	0.86 (1)	
E-F	-2255 / 0	-91.8	-91.8	E-O	-2 / 0	0.00 (1)	
F-G	-2255 / 0	-91.8	-91.8	O-G	-675 / 0	0.85 (1)	
G-H	-2255 / 0	-91.8	-91.8	H-I	0 / 1053	0.24 (1)	
H-I	-2060 / 0	-91.8	-91.8	I-J	0 / 125	0.04 (4)	
I-J	0 / 26	-91.8	-91.8	J-K	0 / 67	0.02 (4)	
J-K	0 / 41	-91.8	-91.8	K-L	-2346 / 0	0.62 (1)	
S-B	-263 / 0	0.0	0.0	L-J	-2346 / 0	0.62 (1)	
L-J	-263 / 0	0.0	0.0				
S-R	0 / 1522	-18.5	-18.5				
R-O	0 / 1560	-18.5	-18.5				
O-P	0 / 1560	-18.5	-18.5				
P-O	0 / 2256	-18.5	-18.5				
O-N	0 / 1560	-18.5	-18.5				
N-M	0 / 1560	-18.5	-18.5				
M-L	0 / 1522	-18.5	-18.5				

TOTAL WEIGHT = 165 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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 (0.22")

CSI: TC=0.82/1.00 (D-E:1), BC=0.44/1.00 (O-P:1), WB=0.86/1.00 (E-P:1), SS=0.29/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 (I) (INPUT = 0.90)
JSI METAL = 0.53 (I) (INPUT = 1.00)

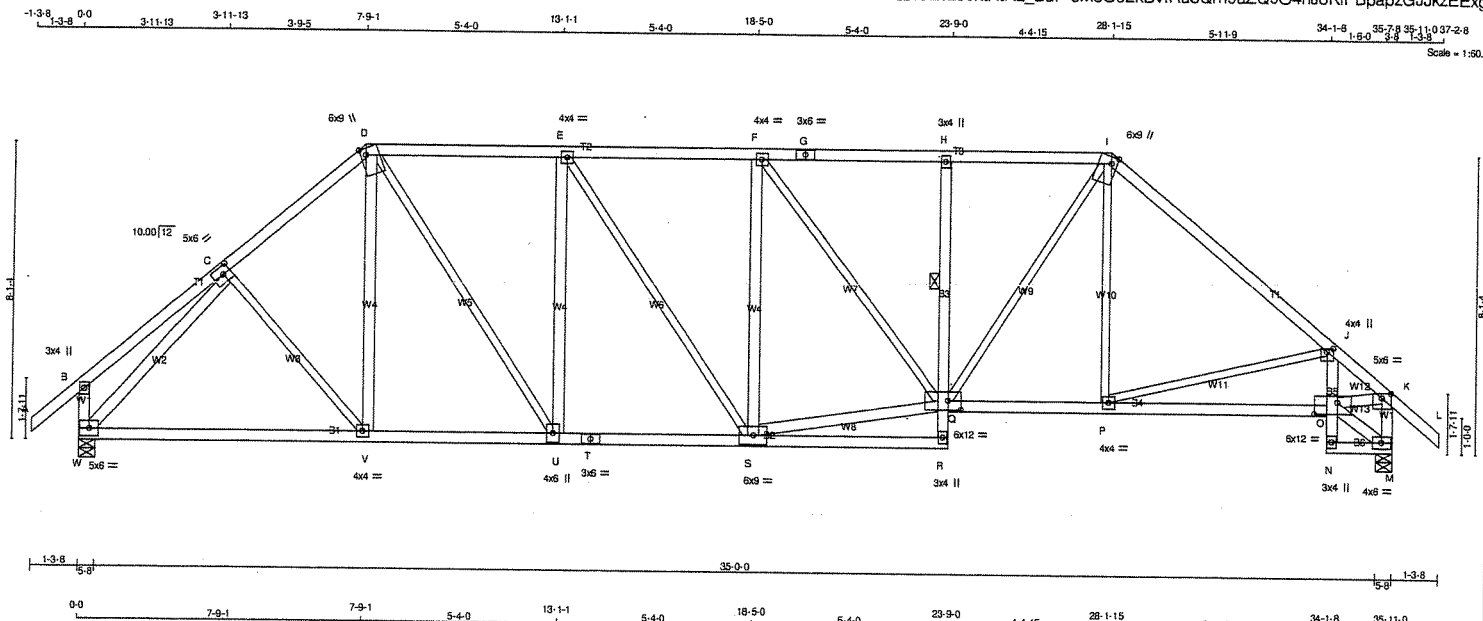


Structural component only
DWG# T-2115265

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T5S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:07 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-sMeO62kDvRu3Qrn9aZQ9O4nJ8KIPBpapzGJJkzEEExg



TOTAL WEIGHT = 189 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
W - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
W - T	2x4	DRY	No.2
T - R	2x4	DRY	No.2
R - H	2x4	DRY	No.2
Q - O	2x4	DRY	No.2
N - J	2x4	DRY	No.2
N - M	2x4	DRY	No.2

ALL WEBS	EXCEPT	SIZE	LUMBER	DESCR.
C - V	2x3	DRY	No.2	SPF
D - U	2x3	DRY	No.2	SPF
E - S	2x3	DRY	No.2	SPF
F - Q	2x3	DRY	No.2	SPF
Q - I	2x3	DRY	No.2	SPF
P - J	2x3	DRY	No.2	SPF
P - J	2x3	DRY	No.2	SPF
W - C	2x4	DRY	2100F 1.8E	SPF

DRY: SEASONED LUMBER.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
W	2105	0	2105	0
M	2109	0	2109	0

UNFACTORED REACTIONS

	1ST CASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
W	1486	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0
M	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 3.64 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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
MEMB.									
FR-TO									
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	C-V	0 / 67	0.02 (4)	
B-C	0 / 26	-91.8	-91.8	0.22 (1)	10.00	V-D	0 / 120	0.03 (4)	
C-D	-2056 / 0	-91.8	-91.8	0.30 (1)	4.45	D-U	0 / 1032	0.23 (1)	
D-E	-2140 / 0	-91.8	-91.8	0.48 (1)	4.14	U-E	-778 / 0	0.70 (1)	
E-F	-2298 / 0	-91.8	-91.8	0.50 (1)	4.00	E-S	0 / 282	0.06 (1)	
F-G	-2368 / 0	-91.8	-91.8	0.41 (1)	4.08	S-F	-551 / 0	0.50 (1)	
G-H	-2368 / 0	-91.8	-91.8	0.41 (1)	4.08	S-Q	0 / 2301	0.37 (1)	
H-I	-2373 / 0	-91.8	-91.8	0.39 (1)	4.08	Q-Q	0 / 108	0.02 (1)	
I-J	-2341 / 0	-91.8	-91.8	0.73 (1)	3.90	Q-I	0 / 1076	0.24 (1)	
J-K	-2681 / 0	-91.8	-91.8	0.49 (1)	3.84	P-I	0 / 182	0.05 (4)	
K-L	0 / 41	-91.8	-91.8	0.13 (1)	10.00	P-J	-408 / 0	0.31 (1)	
W-B	-263 / 0	0.0	0.0	0.03 (1)	7.81	W-C	-2341 / 0	0.62 (1)	
M-K	-2053 / 0	0.0	0.0	0.22 (1)	5.91	O-M	-72 / 0	0.01 (1)	
						O-K	0 / 2132	0.34 (1)	
W-V	0 / 1519	-18.5	-18.5	0.39 (1)	10.00				
V-U	0 / 1558	-18.5	-18.5	0.39 (1)	10.00				
U-T	0 / 2140	-18.5	-18.5	0.41 (1)	10.00				
T-S	0 / 2140	-18.5	-18.5	0.41 (1)	10.00				
S-R	0 / 42	-18.5	-18.5	0.14 (4)	10.00				
R-Q	0 / 42	0.0	0.0	0.06 (1)	10.00				
O-H	-484 / 0	0.0	0.0	0.07 (1)	6.25				
Q-P	0 / 1774	-18.5	-18.5	0.38 (1)	10.00				
P-O	0 / 2166	-18.5	-18.5	0.44 (1)	10.00				
N-O	0 / 17	0.0	0.0	0.09 (1)	10.00				
O-J	-139 / 3	0.0	0.0	0.09 (1)	7.81				
N-M	0 / 59	-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

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

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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.73/1.00 (I-J:1), BC=0.44/1.00 (O-P:1),
WB=0.70/1.00 (E-U:1), SSI=0.23/1.00 (D-E:1)

DQL 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	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 (S) (INPUT = 0.90)
JSI METAL = 0.63 (T) (INPUT = 1.00)



Structural component only
DWG# T-2115266

CONTINUED ON PAGE 2

JOB NAME 410965	TRUSS NAME T5S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
R	BMV+p	MT20	3.0	4.0		
S	BMWWW-t	MT20	6.0	9.0		
T	BS-t	MT20	3.0	6.0		
U	BMWW+t	MT20	4.0	6.0		
V	BMWW-t	MT20	4.0	4.0		
W	BMWW1-t	MT20	5.0	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

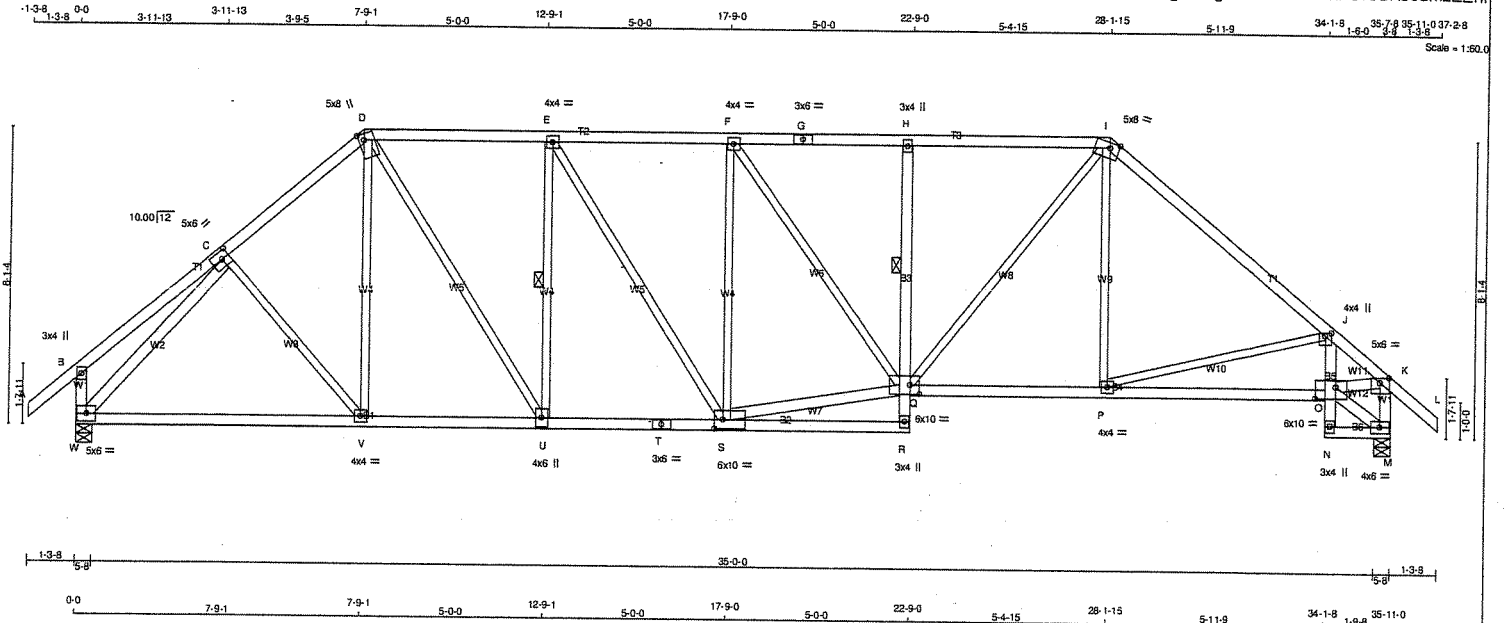


Structural component only
DWG# T-2115266 *2/2*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410966	T5S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 16:07:36 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-xN8A77LmmYgf14RgVBLx81eGZi?kHe19SK86umzEEEnr



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
G - I	2x4	DRY	No.2	SPF	
I - L	2x4	DRY	No.2	SPF	
W - B	2x4	DRY	No.2	SPF	
M - K	2x4	DRY	No.2	SPF	
W - T	2x4	DRY	No.2	SPF	
T - R	2x4	DRY	No.2	SPF	
R - H	2x4	DRY	No.2	SPF	
Q - O	2x4	DRY	No.2	SPF	
N - J	2x4	DRY	No.2	SPF	
N - M	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
S - Q	2x4	DRY	No.2	SPF	
W - C	2x4	DRY	2100F 1.8E	SPF	
O - M	2x4	DRY	No.2	SPF	
O - K	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-t	MT20	5.0	6.0	2.50	2.50
D	TTVW+m	MT20	5.0	8.0	2.00	1.75
E	TMVW-t	MT20	4.0	4.0		
F	TMVW-t	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMV+p	MT20	3.0	4.0		
I	TTVW-m	MT20	5.0	8.0	Edge	3.00
J	TMVW+p	MT20	4.0	4.0	1.00	2.00
K	TMVW-p	MT20	5.0	6.0	1.50	3.00
M	BMVW-t	MT20	4.0	6.0		
N	BMV+p	MT20	3.0	4.0		
O	BMVW-t	MT20	6.0	10.0	3.75	6.50
P	BMVW-t	MT20	4.0	4.0		
R	BMVW-t	MT20	6.0	10.0	3.00	3.25
S	BMV+p	MT20	3.0	4.0		
T	BMVW-t	MT20	6.0	10.0	3.00	2.75
U	BS-t	MT20	3.0	6.0		
U	BMVW-t	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	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
W	2105	0	2105	0
M	2109	0	2109	0

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	DEAD	SOIL
JT	COMBINED	SNOW	LIVE
W	1486	988 / 0	0 / 0
M	1489	991 / 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 = 3.64 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, E-U.

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 FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO					FR-TO		
A-B	0 / 41	-91.8	-91.8	0.13 (1)	C-V	0 / 67	0.02 (4)
B-C	0 / 26	-91.8	-91.8	0.22 (1)	V-D	0 / 118	0.04 (4)
C-D	-2056 / 0	-91.8	-91.8	0.30 (1)	D-U	0 / 1029	0.23 (1)
D-E	-2117 / 0	-91.8	-91.8	0.43 (1)	U-E	-797 / 0	0.33 (1)
E-F	-2292 / 0	-91.8	-91.8	0.45 (1)	E-S	0 / 330	0.07 (1)
F-G	-2459 / 0	-91.8	-91.8	0.49 (1)	S-F	-632 / 0	0.80 (1)
G-H	-2459 / 0	-91.8	-91.8	0.49 (1)	S-Q	0 / 2300	0.37 (1)
H-I	-2465 / 0	-91.8	-91.8	0.52 (1)	F-Q	0 / 281	0.06 (1)
I-J	-2342 / 0	-91.8	-91.8	0.73 (1)	Q-I	0 / 1090	0.25 (1)
J-K	-2681 / 0	-91.8	-91.8	0.49 (1)	P-I	0 / 191	0.06 (4)
K-L	0 / 41	-91.8	-91.8	0.13 (1)	P-J	-407 / 0	0.31 (1)
W-B	-263 / 0	0.0	0.0	0.03 (1)	W-C	-2342 / 0	0.62 (1)
M-K	-2053 / 0	0.0	0.0	0.22 (1)	O-M	-72 / 0	0.01 (1)
					O-K	0 / 2132	0.34 (1)
W-V	0 / 1519	-18.5	-18.5	0.38 (1)			
V-U	0 / 1557	-18.5	-18.5	0.39 (1)			
U-T	0 / 2117	-18.5	-18.5	0.40 (1)			
T-S	0 / 2117	-18.5	-18.5	0.40 (1)			
S-R	0 / 42	-18.5	-18.5	0.12 (4)			
R-O	0 / 40	0.0	0.0	0.06 (1)			
Q-H	-541 / 0	0.0	0.0	0.08 (1)			
Q-P	0 / 1775	-18.5	-18.5	0.39 (1)			
P-O	0 / 2166	-18.5	-18.5	0.45 (1)			
N-O	0 / 17	0.0	0.0	0.09 (1)			
O-J	-140 / 1	0.0	0.0	0.09 (1)			
N-M	0 / 59	-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

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL (LL) = $L/360$ (1.20")
CALCULATED VERT. DEFL (LL) = $L/999$ (0.12")
ALLOWABLE DEFL (TL) = $L/360$ (1.20")
CALCULATED VERT. DEFL (TL) = $L/999$ (0.23")

CSI: TC=0.73/1.00 (I-J:1), BC=0.45/1.00 (O-P:1), WB=0.80/1.00 (F-S:1), SS=0.24/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP (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= 0.88 (I) (INPUT = 0.90)
JSI METAL= 0.64 (I) (INPUT = 1.00)



Structural component only
DWG# T-2115284 1/2

JOB NAME 410966	TRUSS NAME T5S1	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. Fri May 21 16:07:36 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-xN8A77LmmYgf14RqVBLx81eGZI?kHe19SK86umzEErr

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMWV-t	MT20	4.0	4.0		
W	BMWV1-t	MT20	5.0	6.0		

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

NOTES- (1)

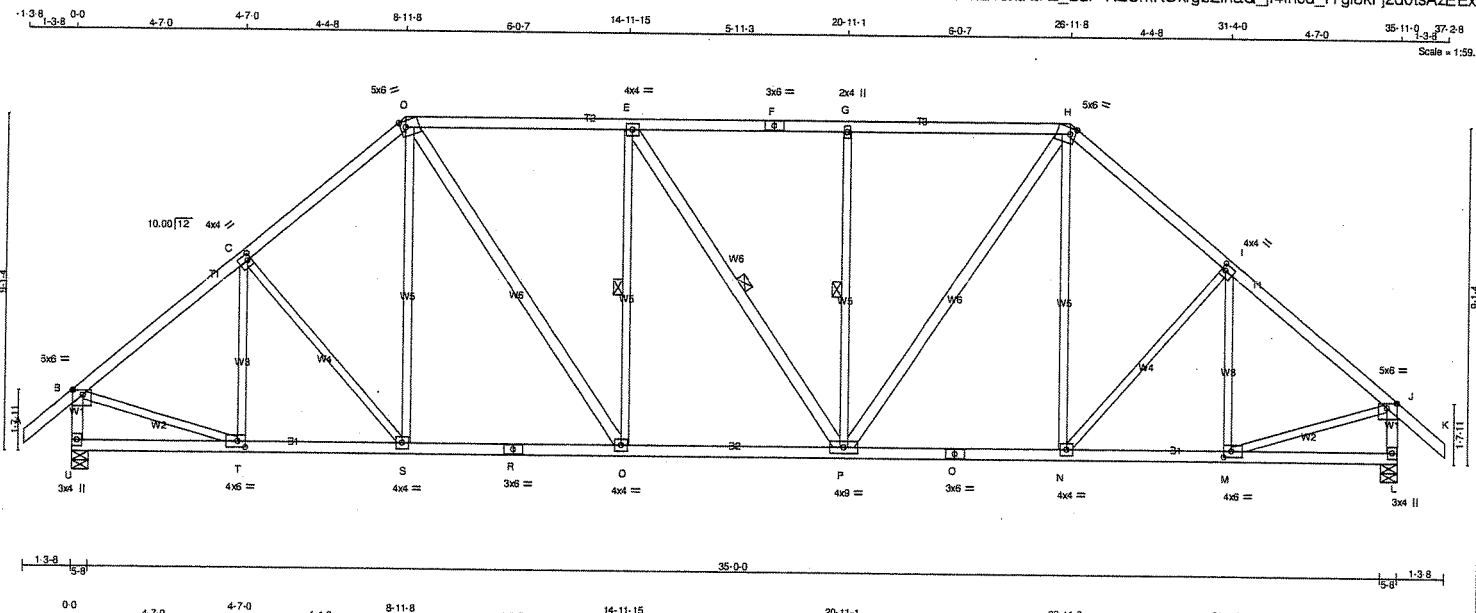
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115284 *2/2*

JOB NAME 410965	TRUSS NAME T6	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. Fri May 21 15:57:08 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-KZCmK0KrgbZihaQ_ji4fhcd_IYgi8kFj2d0tsAzEExf



TOTAL WEIGHT = 184 lb

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

DRY: SEASONED LUMBER.

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
U	2107	0	2107	0	5-8
L	2107	0	2107	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
L	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 4.13 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-Q, E-P, G-P.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO			
A-B	0 / 41	-91.8	10.00
B-C	-2041 / 0	-91.8	4.35
C-D	-2012 / 0	-91.8	4.37
D-E	-2005 / 0	-91.8	4.13
E-F	-2004 / 0	-91.8	4.13
F-G	-2004 / 0	-91.8	4.14
G-H	-2004 / 0	-91.8	4.37
H-I	-2012 / 0	-91.8	4.35
I-J	-2041 / 0	-91.8	4.37
J-K	0 / 41	-91.8	10.00
U-B	-2069 / 0	0.0	5.88
L-J	-2069 / 0	0.0	5.88
FR-TO			
T-C	-369 / 0	0.16	10.00
C-S	-112 / 0	0.10	10.00
D-O	0 / 184	0.05	10.00
Q-E	-594 / 0	0.32	10.00
E-P	-2 / 0	0.00	10.00
P-G	-593 / 0	0.32	10.00
P-H	0 / 855	0.14	10.00
N-H	0 / 185	0.05	10.00
N-I	-112 / 0	0.10	10.00
M-I	-370 / 0	0.17	10.00
B-T	0 / 1655	0.37	10.00
M-J	0 / 1654	0.37	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 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.58/1.00 (D-E:1), BC=0.40/1.00 (P-O:1), WB=0.37/1.00 (B-T:1), SSI=0.26/1.00 (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 = 0.86 (J) (INPUT = 0.90)
JSI METAL = 0.52 (O) (INPUT = 1.00)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.25
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TTVW-m	MT20	5.0	6.0	2.00	1.75
E	TMVW-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-w	MT20	2.0	4.0		
H	TTVW-m	MT20	5.0	6.0	2.00	1.75
I	TMVW-t	MT20	4.0	4.0	2.00	1.25
J	TMVW-p	MT20	5.0	6.0	1.50	3.25
L	BMV1+p	MT20	3.0	4.0		
M	BMVW-t	MT20	4.0	6.0	2.00	2.50
N, O, S						
N	BMVW-t	MT20	4.0	4.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	9.0		
R	BS-t	MT20	3.0	6.0		
T	BMVW-t	MT20	4.0	6.0	2.00	2.50
U	BMV1+p	MT20	3.0	4.0		

NOTES:

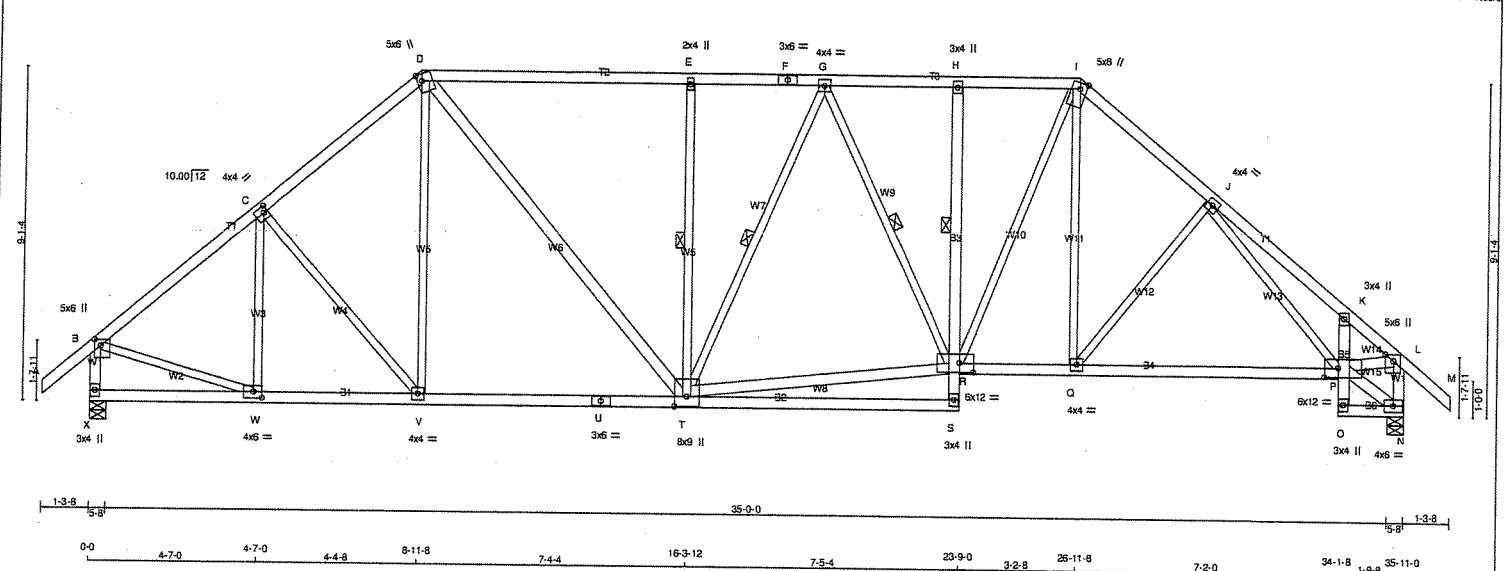
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115267

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
410965	T6S	1	1	ROYAL PINE HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 15:57:10 2021 Page 1
 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-GxKXk4m5BDpTwtMqi67n1G7MMfcdm0WxVzw3zEExd
 Scale = 1:60.0



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				TOTAL WEIGHT = 194 lb			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	BEARINGS							
A - D	2x4	DRY	No.2	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REORD			
D - F	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG			
F - I	2x4	DRY	No.2	SPF	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I - M	2x4	DRY	No.2	SPF	X	2105	0	2105	0	5-8	5-8
X - B	2x4	DRY	No.2	SPF	N	2109	0	2109	0	5-8	5-8
N - L	2x4	DRY	No.2	SPF	UNFACTORED REACTIONS						
X - U	2x4	DRY	No.2	SPF	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
U - S	2x4	DRY	No.2	SPF	JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
S - H	2x4	DRY	No.2	SPF	X	1486	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0
R - P	2x4	DRY	No.2	SPF	N	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 0
O - K	2x4	DRY	No.2	SPF	BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) X, N						
O - N	2x4	DRY	No.2	SPF							

ALL WEBS 2x3 DRY No.2 SPF
 EXCEPT
 P - N 2x4 DRY No.2 SPF
 P - L 2x4 DRY No.2 SPF
 D - T 2x4 DRY No.2 SPF
 T - R 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

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 (1.20")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
 ALLOWABLE DEFL.(TL) = L/360 (1.20")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.88/1.00 (D-E:1), BC=0.43/1.00 (P-Q:1), WB=0.37/1.00 (B-W:1), SS=0.31/1.00 (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 LEFT HEEL ONLY

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

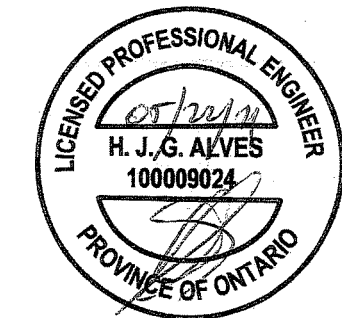
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches
 PLATE ROTATION TOL = 5.0 Deg.
 JSI GRIP = 0.90 (W) (INPUT = 0.90)
 JSI METAL = 0.47 (U) (INPUT = 1.00)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TTVW+m	MT20	5.0	6.0	2.25	1.50
E	TMVW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	4.0	4.0		
H	TMV+p	MT20	3.0	4.0		
I	TTVW+m	MT20	5.0	8.0	2.00	2.25
J	TMVW-t	MT20	4.0	4.0		
K	TMV+p	MT20	3.0	4.0		
L	TMVW-p	MT20	5.0	6.0	Edge	2.75
N	BMVW1-t	MT20	4.0	6.0		
O	BMV+p	MT20	3.0	4.0		
P	BVMVWW-t	MT20	6.0	12.0	3.00	4.50
O	BMVW-t	MT20	4.0	4.0		
R	BVMVWW-t	MT20	6.0	12.0	3.00	4.50
S	BMV+p	MT20	3.0	4.0		
T	BMVWVW-t	MT20	8.0	9.0	3.25	4.00
U	BS-t	MT20	3.0	6.0		

Structural component only
 DWG# T-2115268



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T6S	1	1	TRUSS DESC.		
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:10 2021 Page 2 ID:GAonzd6DLBrd2xE89xtNtRz BuP-GxKXk4m5BDpTwtaMqi67n1iG7MMfcdm0WxVzw3zEEcd		

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMWW-t	MT20	4.0	4.0		
W	BMWW-t	MT20	4.0	6.0	2.00	2.75
X	BMV1+p	MT20	3.0	4.0		

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

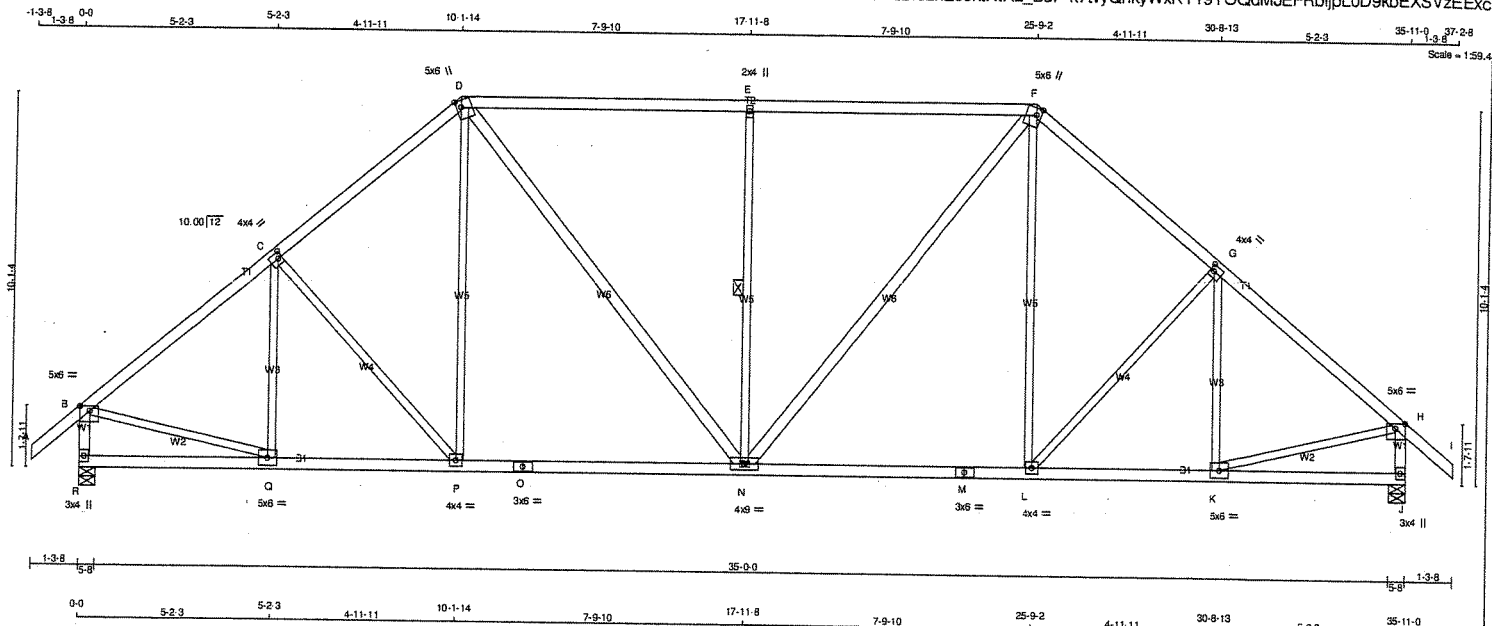
NOTES- (1)
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115268 *W*

JOB NAME 410965	TRUSS NAME T7	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:11 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-k7tyQnkyWxKY19YOQdMJEFBrlpL0D9kbEXSVzEExC



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.25
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TTWW+m	MT20	5.0	6.0	2.25	1.50
E	TMVW-w	MT20	2.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.25	1.50
G	TMVW-t	MT20	4.0	4.0	2.00	1.25
H	TMVW-p	MT20	5.0	6.0	1.50	3.25
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	6.0		
L	BMVW-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	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		
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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX		REQRD BRG IN-SX	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT			
R		2107	0	2107	0	0	5-8	5-8	
J		2107	0	2107	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
R	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0		
J	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 3.64 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	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO
A-B	0 / 41	-91.8	-91.8 0.13 (1)
B-C	-2070 / 0	-91.8	-91.8 0.39 (1)
C-D	-1964 / 0	-91.8	-91.8 0.37 (1)
D-E	-1891 / 0	-91.8	-91.8 0.84 (1)
E-F	-1891 / 0	-91.8	-91.8 0.84 (1)
F-G	-1964 / 0	-91.8	-91.8 0.37 (1)
G-H	-2070 / 0	-91.8	-91.8 0.39 (1)
H-I	0 / 41	-91.8	-91.8 0.13 (1)
R-B	-2065 / 0	0.0	0.0 0.22 (1)
J-H	-2065 / 0	0.0	0.0 0.22 (1)
R-Q	0 / 0	-18.5	-18.5 0.10 (4)
O-P	0 / 1617	-18.5	-18.5 0.35 (1)
P-O	0 / 1481	-18.5	-18.5 0.37 (1)
O-N	0 / 1481	-18.5	-18.5 0.37 (1)
N-M	0 / 1481	-18.5	-18.5 0.37 (1)
M-L	0 / 1481	-18.5	-18.5 0.37 (1)
L-K	0 / 1617	-18.5	-18.5 0.35 (1)
K-J	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

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 (1.20")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.18")

CSI: TC=0.84/1.00 (D-E:1), BC=0.37/1.00 (L-N:1), WB=0.61/1.00 (E-N:1), SS=0.35/1.00 (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.

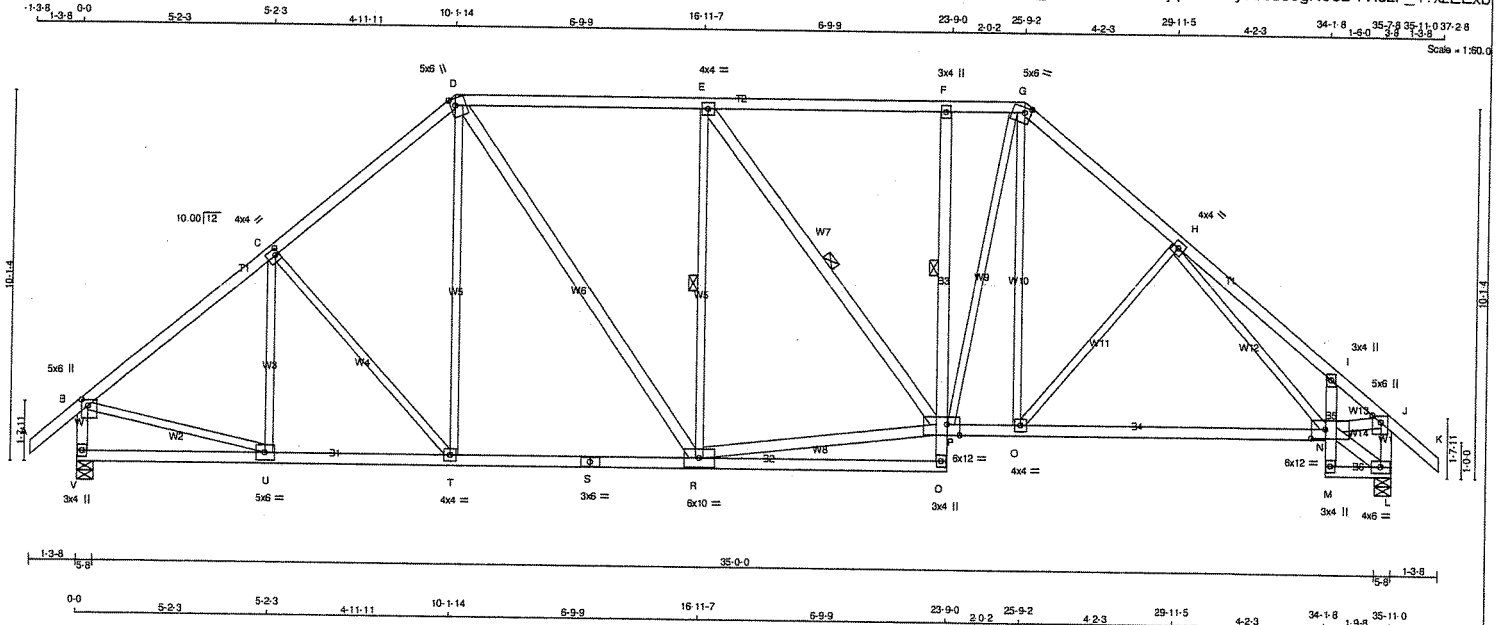
JSI GRIP = 0.86 (H) (INPUT = 0.90)
JSI METAL = 0.47 (O) (INPUT = 1.00)



Structural component only
DWG# T-2115269

JOB NAME 410965	TRUSS NAME T7S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:12 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-CKRH9InMjq3BABkly78bsSogN90D4VJzF_47xzEExb



LUMBER			
N. L. G. A. RULES	SIZE	DESCR.	
CHORDS			
A - D	2x4 DRY	No.2	SPF
D - G	2x4 DRY	No.2	SPF
G - K	2x4 DRY	No.2	SPF
V - B	2x4 DRY	No.2	SPF
L - J	2x4 DRY	No.2	SPF
V - S	2x4 DRY	No.2	SPF
S - Q	2x4 DRY	No.2	SPF
O - F	2x4 DRY	No.2	SPF
P - N	2x4 DRY	No.2	SPF
M - I	2x4 DRY	No.2	SPF
M - L	2x4 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF
EXCEPT			
D - R	2x4 DRY	No.2	SPF
R - P	2x4 DRY	No.2	SPF
E - P	2x4 DRY	No.2	SPF
N - L	2x4 DRY	No.2	SPF
N - J	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	2.00	2.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TTVW+m	MT20	5.0	6.0	2.25	1.50
E	TMVW-t	MT20	4.0	4.0		
F	TMV+p	MT20	3.0	4.0		
G	TTVW-m	MT20	5.0	6.0	1.75	2.00
H	TMVW-t	MT20	4.0	4.0		
I	TMV+p	MT20	3.0	4.0		
J	TMVW+p	MT20	5.0	6.0	Edge	2.75
L	BMVW1-t	MT20	4.0	6.0		
M	BMV+p	MT20	3.0	4.0		
N	BVMVWVW-I	MT20	6.0	12.0	3.00	4.50
O	BMVW-t	MT20	4.0	4.0		
P	BVMVWVW-I	MT20	6.0	12.0	Edge	4.25
Q	BMV+p	MT20	3.0	4.0		
R	BMVWVW-t	MT20	6.0	10.0		
S	BS-t	MT20	3.0	6.0		
T	BMVW-t	MT20	4.0	4.0		
U	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 BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
V	2105	0	2105	0	0	5-8	5-8	
L	2109	0	2109	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE				
V	1486	988 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
L	1489	991 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 4.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 41	-91.8	-91.8 0.13 (1)	U-C	-308 / 0
B-C	-2068 / 0	-91.8	-91.8 0.39 (1)	C-T	-212 / 0
C-D	-1958 / 0	-91.8	-91.8 0.37 (1)	T-D	0 / 262
D-E	-1853 / 0	-91.8	-91.8 0.58 (1)	D-R	0 / 668
E-F	-1831 / 0	-91.8	-91.8 0.55 (1)	R-E	-679 / 0
F-G	-1833 / 0	-91.8	-91.8 0.25 (1)	R-P	0 / 1847
G-H	-2175 / 0	-91.8	-91.8 0.28 (1)	E-P	-48 / 0
H-I	-2343 / 0	-91.8	-91.8 0.29 (1)	P-G	0 / 773
I-J	-2359 / 0	-91.8	-91.8 0.15 (1)	O-G	0 / 450
J-K	0 / 41	-91.8	-91.8 0.13 (1)	O-H	-354 / 0
V-B	-2063 / 0	0.0	0.0 0.22 (1)	B-U	0 / 1666
L-J	-2061 / 0	0.0	0.0 0.22 (1)	N-L	-65 / 0
				N-J	0 / 1827
				H-N	-90 / 2
V-U	0 / 0	-18.5	-18.5 0.10 (4)		
U-T	0 / 1615	-18.5	-18.5 0.32 (1)		
T-S	0 / 1476	-18.5	-18.5 0.36 (1)		
S-R	0 / 1476	-18.5	-18.5 0.36 (1)		
R-O	0 / 33	-18.5	-18.5 0.21 (4)		
Q-P	0 / 55	0.0	0.0 0.05 (1)		
P-F	-439 / 0	0.0	0.0 0.08 (1)		
P-O	0 / 1650	-18.5	-18.5 0.46 (4)		
O-N	0 / 1875	-18.5	-18.5 0.49 (1)		
M-N	0 / 17	0.0	0.0 0.08 (1)		
N-I	-216 / 0	0.0	0.0 0.06 (1)		
M-L	0 / 56	-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/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

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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TC=0.58/1.00 (D-E:1), BC=0.49/1.00 (N-O:1), WB=0.47/1.00 (E-R:1), SS=0.30/1.00 (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 LEFT 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 = 0.88 (B) (INPUT = 0.90)

JSI METAL = 0.49 (S) (INPUT = 1.00)



Structural component only
DWG# T-2115270

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T7S	1	1	TRUSS DESC.		

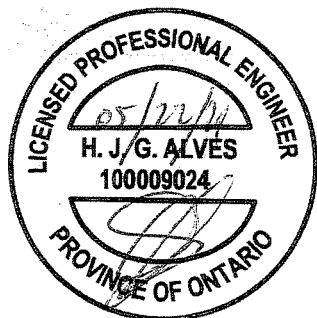
Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:12 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-CKRH9lnMig3BABkly78bsSogN90D4VfJzF 4?xzEExb

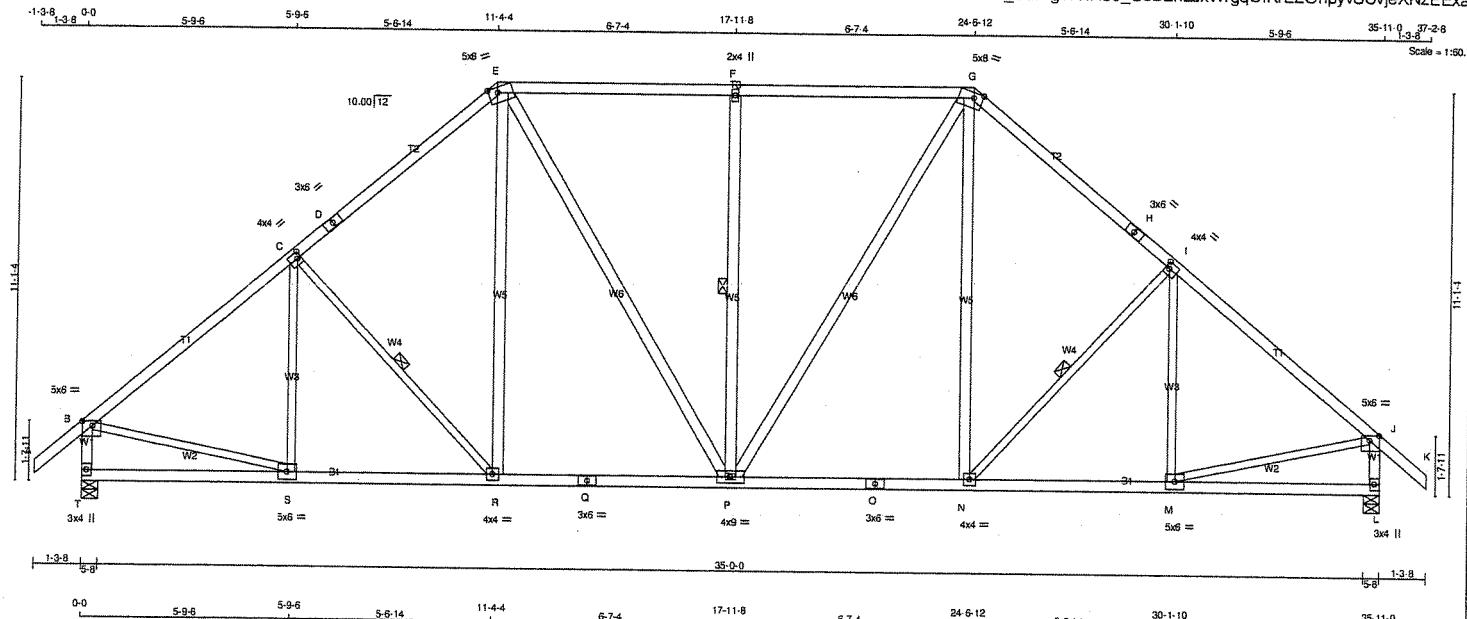
PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
V BMV1+p MT20 3.0 4.0

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

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



Structural component only
DWG# T-2115270 *2/1*



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
T - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
T - O	2x4	DRY	No.2
Q - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
S - C	2x3	DRY	No.2
C - R	2x3	DRY	No.2
N - I	2x3	DRY	No.2
M - I	2x3	DRY	No.2
B - S	2x3	DRY	No.2
M - J	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	8.0	1.50	3.25
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TS-t	MT20	3.0	6.0		
E	TTWW-m	MT20	5.0	8.0	Edge 3.00	
F	TMVW-w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	8.0	Edge 3.00	
H	TS-t	MT20	3.0	6.0		
I	TMVW-t	MT20	4.0	4.0	2.00	1.25
J	TMVW-p	MT20	5.0	8.0	1.50	3.25
L	BMV1-p	MT20	3.0	4.0		
M	BMVW-t	MT20	5.0	6.0		
N	BMVW-t	MT20	4.0	4.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	9.0		
Q	BS-t	MT20	3.0	6.0		
R	BMVW-t	MT20	4.0	4.0		
S	BMVW-t	MT20	5.0	6.0		
T	BMV1-p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG
	VERT	HORZ	DOWN	HORZ		
T	2107	0	2107	0	5-8	5-8
L	2107	0	2107	0	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE COMBINED	MAX /MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
T	1488	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.22 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-R, F-P, I-N.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	S-C	-255 / 6	0.17 (1)
B-C	-2089 / 0	-91.8	-91.8 0.50 (1)	4.22	C-R	-306 / 0	0.15 (1)
C-D	-1901 / 0	-91.8	-91.8 0.47 (1)	4.41	R-E	0 / 336	0.05 (1)
D-E	-1901 / 0	-91.8	-91.8 0.47 (1)	4.41	E-P	0 / 507	0.08 (1)
E-F	-1695 / 0	-91.8	-91.8 0.57 (1)	4.40	P-F	-743 / 0	0.47 (1)
F-G	-1695 / 0	-91.8	-91.8 0.57 (1)	4.40	P-G	0 / 507	0.08 (1)
G-H	-1901 / 0	-91.8	-91.8 0.47 (1)	4.41	N-G	0 / 336	0.05 (1)
H-I	-1901 / 0	-91.8	-91.8 0.47 (1)	4.41	N-I	-306 / 0	0.15 (1)
I-J	-2089 / 0	-91.8	-91.8 0.50 (1)	4.22	M-I	-255 / 6	0.17 (1)
J-K	0 / 41	-91.8	-91.8 0.13 (1)	10.00	B-S	0 / 1677	0.38 (1)
T-B	-2062 / 0	0.0	0.0 0.22 (1)	5.89	M-J	0 / 1677	0.38 (1)
L-J	-2062 / 0	0.0	0.0 0.22 (1)	5.89			
T-S	0 / 0	-18.5	-18.5 0.14 (4)	10.00			
S-R	0 / 1635	-18.5	-18.5 0.34 (1)	10.00			
R-Q	0 / 1431	-18.5	-18.5 0.32 (1)	10.00			
Q-P	0 / 1431	-18.5	-18.5 0.32 (1)	10.00			
P-O	0 / 1431	-18.5	-18.5 0.32 (1)	10.00			
O-N	0 / 1431	-18.5	-18.5 0.32 (1)	10.00			
N-M	0 / 1635	-18.5	-18.5 0.34 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.14 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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) = $L/999$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.15")

CSI: TC=0.57/1.00 (E-F:1), BC=0.34/1.00 (R-S:1), WB=0.47/1.00 (F-P:1), SS=0.29/1.00 (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 = 0.86 (J) (INPUT = 0.90)
JSI METAL = 0.49 (Q) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T9	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:14 2021 Page 2
ID:GAonzd6DLBr2xE89xtNtRz BuP-8iZ1aRppFRJvPVu73YB3xtt3BzhoYKLcQZTB3qzEEExZ

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	2.50	3.25
C	TTWW+m	MT20	6.0	9.0	4.00	1.25
D	TMVW+w	MT20	3.0	6.0		
E	TTWW+m	MT20	7.0	8.0	Edge	2.75
F	TTWW+m	MT20	6.0	9.0	4.00	2.50
G	TMVW-t	MT20	5.0	6.0		
H	TS-t	MT20	5.0	6.0		
I	TMVW-t	MT20	5.0	6.0		
J	TTWW+m	MT20	8.0	9.0	3.50	2.00
K	TMVW+p	MT20	5.0	6.0	2.00	2.25
M	BMV1+p	MT20	3.0	6.0		
N, Q, R						
N	BMVW-t	MT20	5.0	6.0		
O	BMVW-t	MT20	5.0	6.0	2.50	2.00
P	BS-t	MT20	6.0	9.0		
S	BMVW-t	MT20	5.0	8.0	3.75	2.25
T	BS-t	MT20	5.0	6.0		
U	BMVW-t	MT20	6.0	9.0		
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.
C	4-1-14	-204	-204	---	FRONT	VERT	SNOW	---	C1
P	23-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
X	4-11-4	-99	-99	---	BACK	VERT	TOTAL	---	C1
Y	19-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
Z	20-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AA	22-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AB	23-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AC	1-11-4	-25	-25	---	BACK	VERT	TOTAL	---	C1
AD	3-11-4	-25	-25	---	BACK	VERT	TOTAL	---	C1
AE	4-11-4	-25	-25	---	BACK	VERT	TOTAL	---	C1
AF	5-7-8	-947	-947	---	BACK	VERT	TOTAL	---	C1
AG	18-10-8	-783	-783	---	BACK	VERT	TOTAL	---	C1
AH	19-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AJ	20-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AK	22-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
	24-9-8	-794	-794	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

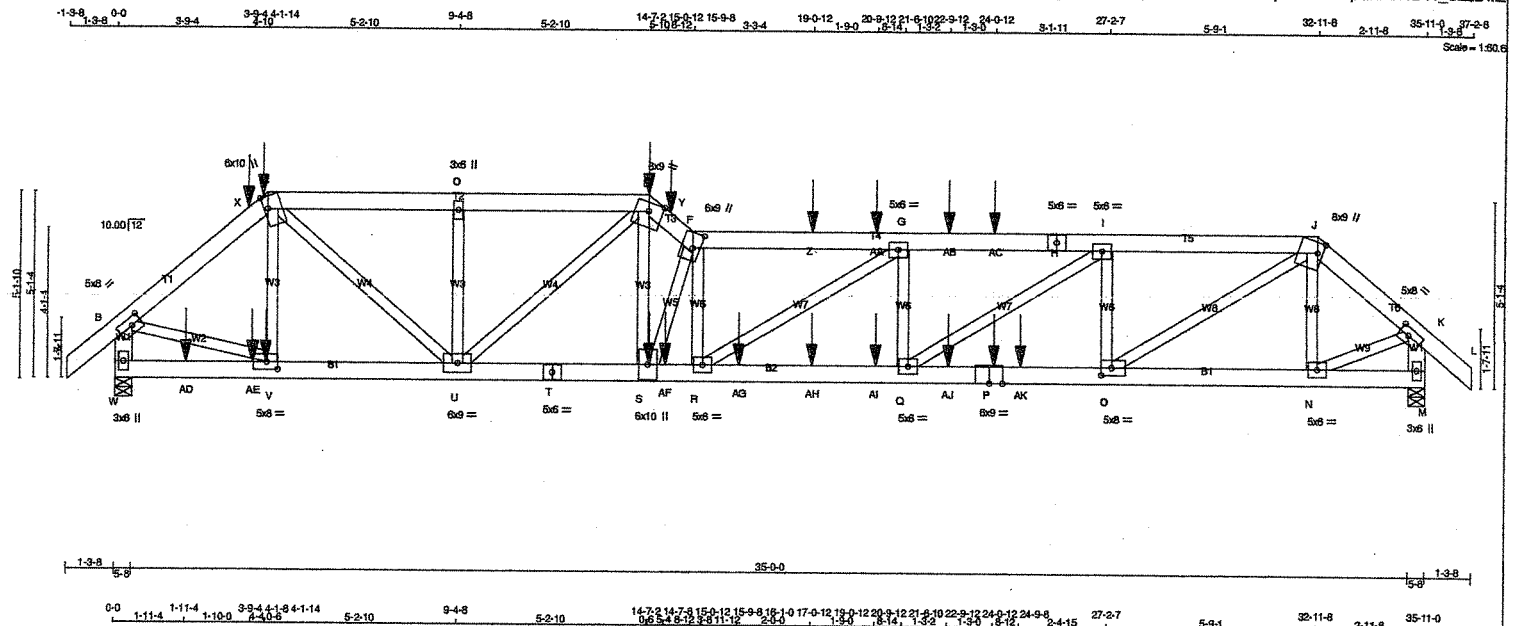


Structural component only
DWG# T-2115272

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410967	T9Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Mon May 24 12:26:23 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNfRz_BuP-nhWkp5Y8aduTeoWibiv3hXuMXpuk7SHDW_0zzDIE



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x6	DRY	No.2	SPF	
C - E	2x6	DRY	No.2	SPF	
E - F	2x6	DRY	No.2	SPF	
F - H	2x6	DRY	No.2	SPF	
H - J	2x6	DRY	No.2	SPF	
J - L	2x6	DRY	No.2	SPF	
L - B	2x6	DRY	No.2	SPF	
M - K	2x6	DRY	No.2	SPF	
W - T	2x6	DRY	2100F 1.8E	SPF	
T - P	2x6	DRY	2100F 1.8E	SPF	
P - M	2x6	DRY	2100F 1.8E	SPF	
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF	
V - C	2x4	DRY	2100F 1.8E	SPF	
C - U	2x4	DRY	2100F 1.8E	SPF	
U - D	2x4	DRY	2100F 1.8E	SPF	
U - E	2x4	DRY	2100F 1.8E	SPF	
S - E	2x4	DRY	2100F 1.8E	SPF	

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 2	12	SIDE(122.0)
C - E 2	12	SIDE(61.0)
E - F 2	12	SIDE(122.0)
F - H 2	12	SIDE(0.0)
H - J 2	12	TOP
J - L 2	12	TOP
L - B 2	12	TOP
M - K 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W - T 2	12	SIDE(197.8)
T - P 2	12	SIDE(197.8)
P - M 2	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
V - C 1	6	SIDE(184.8)
S - E 1	6	SIDE(184.8)
2x4 1	6	

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 5713	DOWN 5713	0	5-8
W	0	0	0	5-8
M	4280	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	4028	2714 / 0	0 / 0	0 / 0	0 / 0	1314 / 0	0 / 0
M	3018	2031 / 0	0 / 0	0 / 0	0 / 0	987 / 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 = 3.12 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (L/C)
FR-TO					FR-TO		
A-B	0 / 42	-91.8	-91.8	0.04 (1)	10.00	V-C	0 / 325
B-X	-6260 / 0	-91.8	-91.8	0.14 (1)	4.65	C-U	0 / 4198
X-C	-6260 / 0	-91.8	-91.8	0.14 (1)	4.65	U-D	-453 / 0
C-D	-7979 / 0	-91.8	-91.8	0.17 (1)	4.17	U-E	-3311 / 0
D-E	-7979 / 0	-91.8	-91.8	0.17 (1)	4.17	S-E	0 / 9877
E-Y	-13199 / 0	-91.8	-91.8	0.24 (1)	3.24	S-F	-8509 / 0
Y-F	-13199 / 0	-91.8	-91.8	0.24 (1)	3.24	R-F	-955 / 0
F-Z	-13077 / 0	-91.8	-91.8	0.45 (1)	3.12	N-J	-1165 / 0
Z-AA	-13077 / 0	-91.8	-91.8	0.45 (1)	3.12	B-V	0 / 4981
AA-G	-13077 / 0	-91.8	-91.8	0.45 (1)	3.12	N-K	0 / 3521
G-AB	-12317 / 0	-91.8	-91.8	0.37 (1)	3.28	O-J	0 / 6711
AB-AC	-12317 / 0	-91.8	-91.8	0.37 (1)	3.28	R-G	0 / 907
AC-H	-12317 / 0	-91.8	-91.8	0.37 (1)	3.28	O-I	-2745 / 0
H-I	-12317 / 0	-91.8	-91.8	0.37 (1)	3.28	Q-G	-1313 / 0
I-J	-8963 / 0	-91.8	-91.8	0.24 (1)	3.92	Q-I	0 / 4000
J-K	-4339 / 0	-91.8	-91.8	0.06 (1)	5.46		
K-L	0 / 42	-91.8	-91.8	0.04 (1)	10.00		
W-B	-5644 / 0	0.0	0.0	0.20 (1)	6.20		
M-K	-4257 / 0	0.0	0.0	0.15 (1)	6.94		
W-AD	0 / 0	-18.5	-18.5	0.02 (4)	10.00		
AD-AE	0 / 0	-18.5	-18.5	0.02 (4)	10.00		
AE-V	0 / 0	-18.5	-18.5	0.02 (4)	10.00		
V-U	0 / 4832	-18.5	-18.5	0.14 (1)	10.00		
U-T	0 / 10461	-18.5	-18.5	0.30 (1)	10.00		
T-S	0 / 10461	-18.5	-18.5	0.30 (1)	10.00		
S-AF	0 / 13116	-18.5	-18.5	0.48 (1)	10.00		
AF-R	0 / 13116	-18.5	-18.5	0.48 (1)	10.00		
R-AG	0 / 12317	-18.5	-18.5	0.46 (1)	10.00		
AG-AH	0 / 12317	-18.5	-18.5	0.46 (1)	10.00		
AH-AI	0 / 12317	-18.5	-18.5	0.46 (1)	10.00		
AI-Q	0 / 12317	-18.5	-18.5	0.46 (1)	10.00		
Q-AJ	0 / 8963	-18.5	-18.5	0.48 (1)	10.00		
AJ-P	0 / 8963	-18.5	-18.5	0.48 (1)	10.00		
P-AK	0 / 8963	-18.5	-18.5	0.48 (1)	10.00		
AK-O	0 / 8963	-18.5	-18.5	0.48 (1)	10.00		
O-N	0 / 3287	-18.5	-18.5	0.16 (1)	10.00		
N-M	0 / 0	-18.5	-18.5	0.01 (4)	10.00		

W-AD	0 / 0	-18.5	-18.5	0.02 (4)	10.00
AD-AE	0 / 0	-18.5	-18.5	0.02 (4)	10.00
AE-V	0 / 0	-18.5	-18.5	0.02 (4)	10.00
V-U	0 / 4832	-18.5	-18.5	0.14 (1)	10.00
U-T	0 / 10461	-18.5	-18.5	0.30 (1)	10.00
T-S	0 / 10461	-18.5	-18.5	0.30 (1)	10.00
S-AF	0 / 13116	-18.5	-18.5	0.48 (1)	10.00
AF-R	0 / 13116	-18.5	-18.5	0.48 (1)	10.00
R-AG	0 / 12317	-18.5	-18.5	0.46 (1)	10.00
AG-AH	0 / 12317	-18.5	-18.5	0.46 (1)	10.00
AH-AI	0 / 12317	-18.5	-18.5	0.46 (1)	10.00
AI-Q	0 / 12317	-18.5	-18.5	0.46 (1)	10.00
Q-AJ	0 / 8963	-18.5	-18.5	0.48 (1)	10.00
AJ-P	0 / 8963	-18.5	-18.5	0.48 (1)	10.00
P-AK	0 / 8963	-18.5	-18.5	0.48 (1)	10.00
AK-O	0 / 8963	-18.5	-18.5	0.48 (1)	10.00
O-N	0 / 3287	-18.5	-18.5	0.16 (1)	10.00
N-M	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.
C	4-1-14	-47	-47		FRONT	VERT	DEAD		C1
C	4-1-14	-204	-204		FRONT	VERT	SNOW		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 = 6.0 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 ***
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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.30")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/778 (0.55")

CSI: TC=0.45/1.00 (F-G:1), BC=0.48/1.00 (O-Q:1),
WB=0.78/1.00 (F-S:1), SSI=0.23/1.00 (O-Q:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (B) (INPUT = 0.90)
JSI METAL= 0.92 (P) (INPUT = 1.00)



Structural component only
DWG# T-2115285

CONTINUED ON PAGE 2

JOB NAME 410967	TRUSS NAME T9Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version B.420 S Jan 21 2021 MiTek Industries, Inc. Mon May 24 12:26:23 2021 Page 2

ID:GAonzd6DLBrd2xE89xtNtRz BuP-nhWkp5Y8oduTeoWibiv3hXuMXpuk7SHDW 0zzDIIE

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	2.50	3.25
C	TTWW+m	MT20	6.0	10.0	4.00	1.25
D	TMVW-w	MT20	3.0	6.0		
E	TTWW-m	MT20	8.0	9.0	Edge	
F	TTWW+m	MT20	6.0	9.0	5.00	2.25
G	TMVW-t	MT20	5.0	6.0		
H	TS-t	MT20	5.0	6.0		
I	TMVW-t	MT20	5.0	6.0		
J	TTWW+m	MT20	8.0	9.0	3.50	1.75
K	TMVW-t	MT20	5.0	8.0	2.50	3.25
M	BMV1+p	MT20	3.0	6.0		
N, Q, R						
N	BMVW-t	MT20	5.0	6.0		
O	BMVW-t	MT20	5.0	8.0	2.50	3.50
P	BS-t	MT20	6.0	9.0		
S	BMVW-t	MT20	6.0	10.0		
T	BS-t	MT20	5.0	6.0		
U	BMVW-t	MT20	6.0	9.0		
V	BMVW-t	MT20	5.0	8.0	2.50	3.75
W	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

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

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	14-7-2	-47	-47	---	FRONT	VERT	DEAD	---	C1
E	14-7-2	-204	-204	---	FRONT	VERT	SNOW	---	C1
P	24-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
S	14-7-8	-1035	-1035	---	BACK	VERT	TOTAL	---	C1
V	4-1-8	-1035	-1035	---	BACK	VERT	TOTAL	---	C1
X	3-9-4	-111	-111	---	BACK	VERT	TOTAL	---	C1
Y	15-0-12	-117	-117	---	BACK	VERT	TOTAL	---	C1
Z	19-0-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AA	20-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AB	22-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AC	24-0-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AD	1-11-4	-25	-25	---	BACK	VERT	TOTAL	---	C1
AE	3-9-4	-25	-25	---	BACK	VERT	TOTAL	---	C1
AF	15-0-12	-25	-25	---	BACK	VERT	TOTAL	---	C1
AG	17-0-12	-25	-25	---	BACK	VERT	TOTAL	---	C1
AH	19-0-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AI	20-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AJ	22-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AK	24-9-8	-773	-773	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

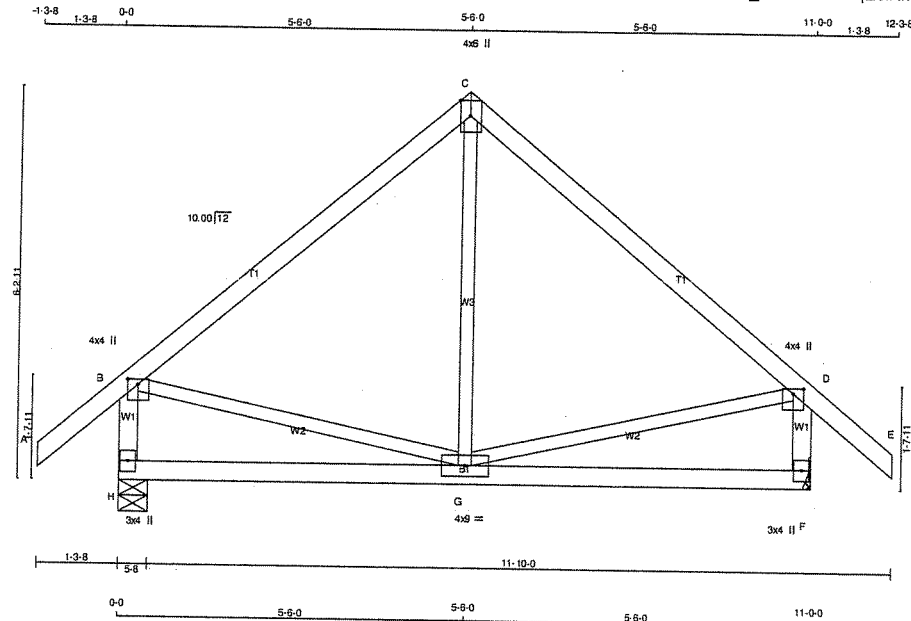
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2115285 *ML*

JOB NAME 410965	TRUSS NAME T10	QUANTITY 4	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. Fri May 21 15:57:15 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-dv7QonqE0IRm1fTKdGiiU4PE3N71HykifDCKbGzEEeY



Scale = 1/32

TOTAL WEIGHT = 4 X 49 = 196 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
H - B	2x4	DRY	No.2
F - D	2x4	DRY	No.2
H - F	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
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW-t	MT20	4.0	9.0		
H	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	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
H	733	0	733	0	5-8
F	733	0	733	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	516	352 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0
F	516	352 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED
FR-TO		FROM	TO	FR-TO			
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	G-C	-14 / 90	0.03 (4)
B-C	-383 / 0	-91.8	-91.8 0.36 (1)	6.25	B-G	0 / 302	0.07 (1)
C-D	-383 / 0	-91.8	-91.8 0.36 (1)	6.25	G-D	0 / 302	0.07 (1)
D-E	0 / 41	-91.8	-91.8 0.13 (1)	10.00			
H-B	-694 / 0	0.0	0.0 0.07 (1)	7.81			
F-D	-694 / 0	0.0	0.0 0.07 (1)	7.81			
H-G	0 / 0	-18.5	-18.5 0.16 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.16 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF 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) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.02")

CSI: TC=0.36/1.00 (C-D:1), BC=0.16/1.00 (G-H:4), WB=0.07/1.00 (D-G:1), SS=0.15/1.00 (C-D:1)

DO NOT 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.

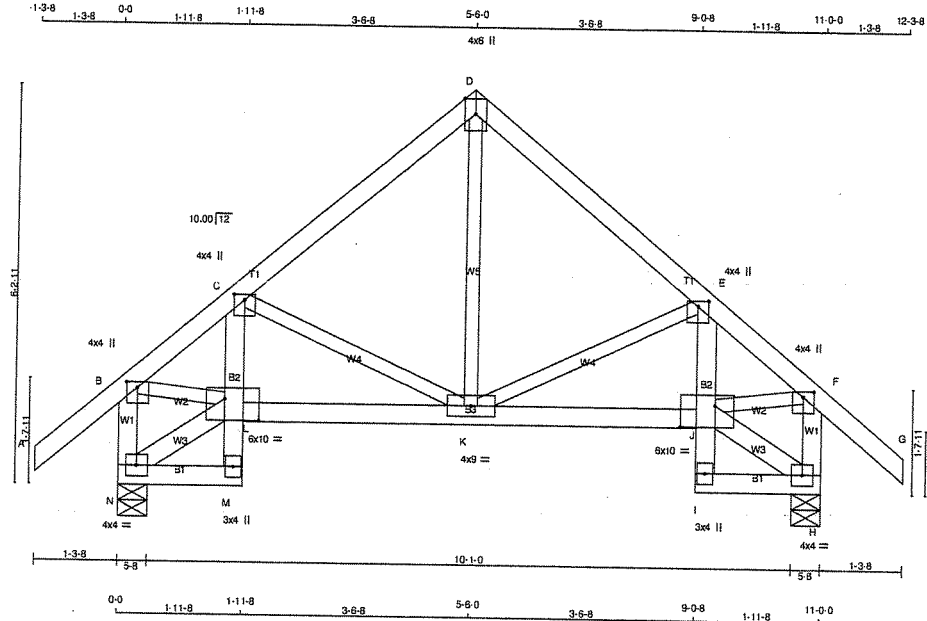
JSI GRIP = 0.58 (D) (INPUT = 0.90)
JSI METAL = 0.16 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115273

JOB NAME 410965	TRUSS NAME T10S	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:16 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-55ho77rsn3Zdeo1WBzDX0lyS0mUo0PAvutyI8izEExX



Scale = 1/32

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B, C, E, F						
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
D	TTW+p	MT20	4.0	6.0	Edge	
H	BMVW1-t	MT20	4.0	4.0		
I	BMV+p	MT20	3.0	4.0		
J	BMVW1-t	MT20	6.0	10.0	4.00	6.50
K	BMVW1-t	MT20	4.0	9.0		
L	BMVW1-t	MT20	6.0	10.0	4.00	6.50
M	BMV+p	MT20	3.0	4.0		
N	BMVW1-t	MT20	4.0	4.0		

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

NOTES- (1)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	RECORD BRG IN-SX
JT	VERT	HORZ		
N	733	0	733	0
H	733	0	733	0

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	516	352 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0
H	516	352 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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 / 41	-91.8 -91.8 0.13 (1)	10.00	K-D	0 / 258	0.06 (1)	
B-C	-691 / 0	-91.8 -91.8 0.10 (1)	6.25	K-E	-238 / 0	0.07 (1)	
C-D	-444 / 0	-91.8 -91.8 0.15 (1)	6.25	C-K	-238 / 0	0.07 (1)	
D-E	-444 / 0	-91.8 -91.8 0.15 (1)	6.25	N-L	-20 / 0	0.00 (1)	
E-F	-691 / 0	-91.8 -91.8 0.10 (1)	6.25	B-L	0 / 534	0.12 (1)	
F-G	0 / 41	-91.8 -91.8 0.13 (1)	10.00	J-H	-20 / 0	0.00 (1)	
N-B	-706 / 0	0.0 0.0 0.08 (1)	7.81	J-F	0 / 534	0.12 (1)	
H-F	-706 / 0	0.0 0.0 0.08 (1)	7.81				
N-M	0 / 17	-18.5 -18.5 0.02 (4)	10.00				
M-L	0 / 19	0.0 0.0 0.03 (1)	10.00				
L-C	-3 / 32	0.0 0.0 0.02 (4)	10.00				
L-K	0 / 543	-18.5 -18.5 0.13 (1)	10.00				
K-J	0 / 543	-18.5 -18.5 0.13 (1)	10.00				
I-J	0 / 19	0.0 0.0 0.03 (1)	10.00				
J-E	-3 / 32	0.0 0.0 0.02 (4)	10.00				
I-H	0 / 17	-18.5 -18.5 0.02 (4)	10.00				

TOTAL WEIGHT = 2 X 58 = 116 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.02")

CSI: TO=0.15/1.00 (C-D:1), BC=0.13/1.00 (K-L:1), WB=0.12/1.00 (B-L:1), SSI=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 = 0.74 (B) (INPUT = 0.90)
JSI METAL = 0.21 (B) (INPUT = 1.00)

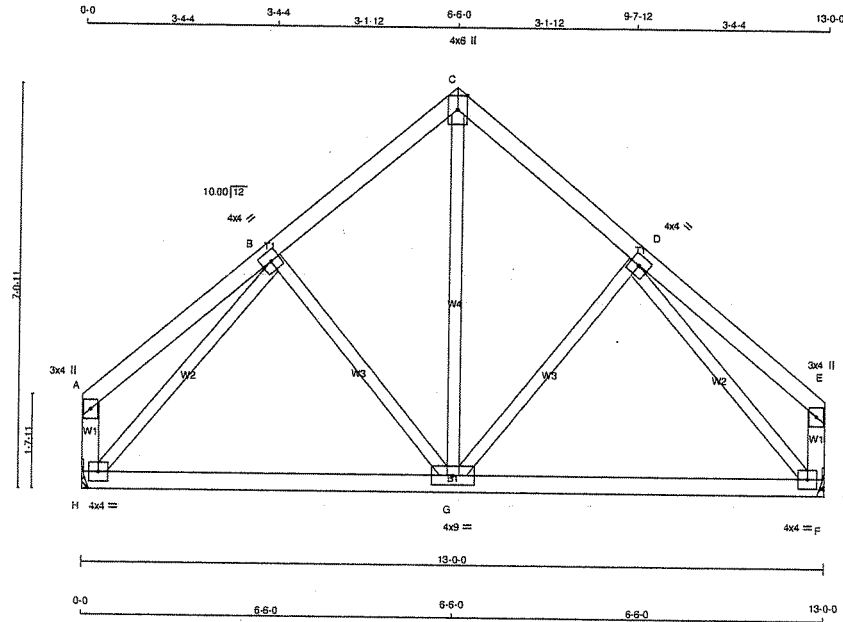


Structural component only
DWG# T-2115274

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T11	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:17 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-ZHFACTrUYMhUGycilgkmZVvdiAnzipZ27Xhrg9zEEExVW



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

ALL WEBS 2x3 DRY No.2
EXCEPT

ORY: 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		
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMVW-t	MT20	4.0	4.0		
E	TMV+p	MT20	3.0	4.0		
F	BMVW1-t	MT20	4.0	4.0		
G	BMVW1-t	MT20	4.0	9.0		
H	BMVW1-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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
H	717	0	717	0	MECHANICAL	
F	717	0	717	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LOASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	507	333/0	0/0	0/0	0/0	174/0	0/0
F	507	333/0	0/0	0/0	0/0	174/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. MEMB. FORCE (LBS)	MAX. FACTORED UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. CSI (LC)				
FR-TO								
A-B	0/22	-91.8	-91.8	0.15 (1)	10.00	G-C	0/366	0.08 (1)
B-C	-490/0	-91.8	-91.8	0.12 (1)	6.25	G-D	-141/0	0.06 (1)
C-D	-490/0	-91.8	-91.8	0.12 (1)	6.25	B-G	-141/0	0.06 (1)
D-E	0/22	-91.8	-91.8	0.15 (1)	10.00	H-B	-716/0	0.30 (1)
H-A	-114/0	0.0	0.0	0.01 (1)	7.81	D-F	-716/0	0.30 (1)
F-E	-114/0	0.0	0.0	0.01 (1)	7.81			
H-G	0/450	-18.5	-18.5	0.26 (4)	10.00			
G-F	0/450	-18.5	-18.5	0.26 (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

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.15/1.00 (A-B:1), BC=0.26/1.00 (F-G:4), WB=0.30/1.00 (B-H: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.

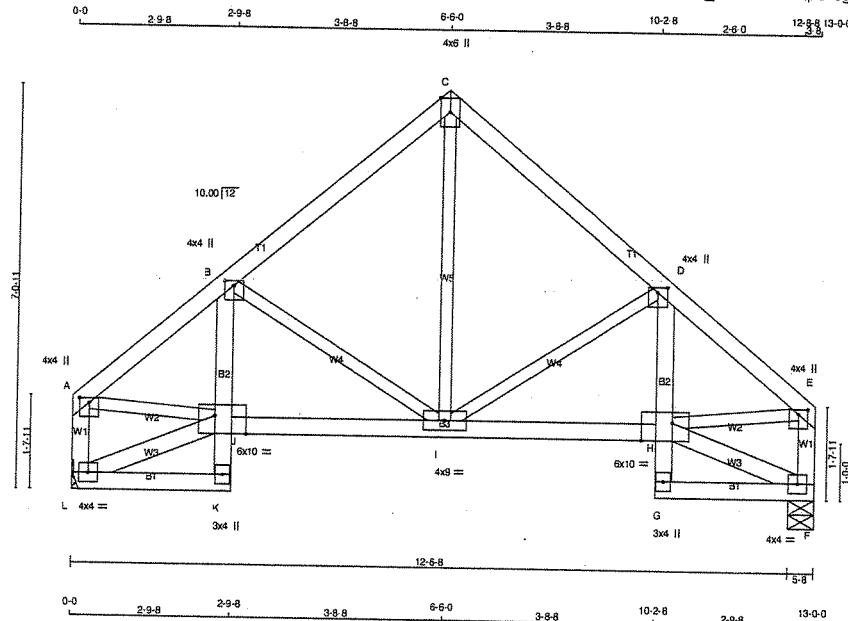
JSI GRIP = 0.78 (B) (INPUT = 0.90)
JSI METAL = 0.24 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115275

JOB NAME 410965	TRUSS NAME T11S	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri May 21 15:57:18 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNrZ_BuP-1UoYQps7JgpKu6BvIOF05j1oUa9vUIDBLBPCbzEEeXV



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A, B, D, E						
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTW+p	MT20	4.0	6.0	Edge	
F	BMVW1-t	MT20	4.0	4.0		
G	BMVW+p	MT20	3.0	4.0		
H	BVMWV-I	MT20	6.0	10.0	Edge	6.50
I	BMVWV-t	MT20	4.0	9.0		
J	BVMWV-I	MT20	6.0	10.0	Edge	6.50
K	BMVW+p	MT20	3.0	4.0		
L	BMVW1-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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
L	717	0	717	0	MECHANICAL	
F	717	0	717	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	507	333 / 0	0 / 0	0 / 0	0 / 0	174 / 0	0 / 0
F	507	333 / 0	0 / 0	0 / 0	0 / 0	174 / 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)

FR-TO	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LC1 MAX (PLF)		MAX. UNBRACED LENGTH	WEBS MAX. FACTORED FORCE (LBS)	
	FROM	TO	FROM	TO		FROM	TO
A-B	-831 / 0	-91.8	-91.8	0.13 (1)	6.25	I-C	0 / 396
B-C	-557 / 0	-91.8	-91.8	0.15 (1)	6.25	I-D	-305 / 0
C-D	-557 / 0	-91.8	-91.8	0.15 (1)	6.25	B-I	-305 / 0
D-E	-831 / 0	-91.8	-91.8	0.13 (1)	6.25	L-J	-17 / 0
L-A	-686 / 0	0.0	0.0	0.07 (1)	7.81	A-J	0 / 664
F-E	-686 / 0	0.0	0.0	0.07 (1)	7.81	H-F	-17 / 0
						H-E	0 / 664
L-K	0 / 16	-18.5	-18.5	0.04 (4)	10.00		
K-J	0 / 27	0.0	0.0	0.03 (1)	10.00		
J-B	-2 / 40	0.0	0.0	0.02 (4)	10.00		
J-I	0 / 668	-18.5	-18.5	0.15 (1)	10.00		
I-H	0 / 668	-18.5	-18.5	0.15 (1)	10.00		
G-H	0 / 27	0.0	0.0	0.03 (1)	10.00		
H-D	-2 / 40	0.0	0.0	0.02 (4)	10.00		
G-F	0 / 16	-18.5	-18.5	0.04 (4)	10.00		

TOTAL WEIGHT = 2 X 65 = 131 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.43")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.43")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CSI: TC=0.15/1.00 (B-C:1), BC=0.15/1.00 (I-J:1),
WB=0.15/1.00 (A-J: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

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 = 0.82 (A) (INPUT = 0.90)
JSI METAL = 0.23 (A) (INPUT = 1.00)

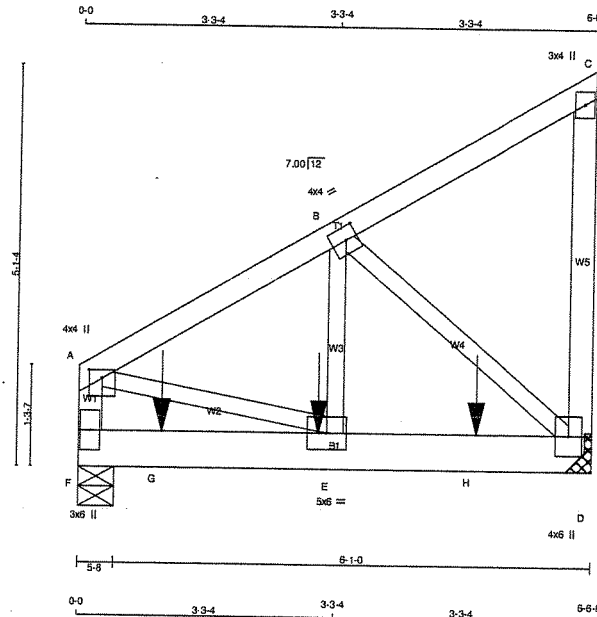


Structural component only
DWG# T-2115276

JOB NAME 410965	TRUSS NAME T12	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. Fri May 21 15:57:19 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-VgMwd9tl4_xBVGm5s5mFewa_L_TTDkYLarAyk1zEEuU



Scale = 1/2" = 1'-0"

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A 1	12	TOP
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.

GIROER NAILING ASSUMES NAILEO HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
B	TMVW-t	MT20	4.0	4.0	2.00	1.75
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 BRG		RECORD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F	1452	0	1452	0	0	5-8	5-8	
D	1363	0	1363	0	0	MECHANICAL		

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	1024	687 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0
D	962	645 / 0	0 / 0	0 / 0	0 / 0	317 / 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 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
F-A	-1028 / 0	0.0	0.0	0.06 (1)	7.81	A-E	0 / 1102
A-B	-1216 / 0	-91.8	-91.8	0.08 (1)	6.25	E-B	0 / 1168
B-C	-16 / 0	-91.8	-91.8	0.08 (1)	6.25	B-D	-1400 / 0
D-C	-119 / 0	0.0	0.0	0.02 (1)	7.81		
F-G	0 / 0	-18.5	-18.5	0.16 (1)	10.00		
G-E	0 / 0	-18.5	-18.5	0.16 (1)	10.00		
E-H	0 / 1064	-18.5	-18.5	0.24 (1)	10.00		
H-D	0 / 1064	-18.5	-18.5	0.24 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-0-12	-492	-492	---	BACK	VERT	TOTAL	---	C1
G	1-0-12	-492	-492	---	BACK	VERT	TOTAL	---	C1
H	5-0-12	-492	-492	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 34 = 67 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.08/1.00 (A-B:1), BC=0.24/1.00 (D-E:1),
WB=0.21/1.00 (B-D:1), SS=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 (PLI)
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.81 (B) (INPUT = 0.90)

JSI METAL = 0.24 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115277

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T12	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

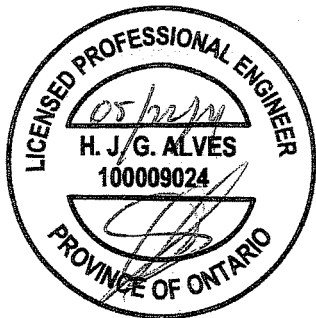
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:57:19 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-VgMwd9ti4 xBVGm5sSmFewa L T1DKYLarAyk1zEEExU

PLATES (table is in inches)

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

NOTES (1)

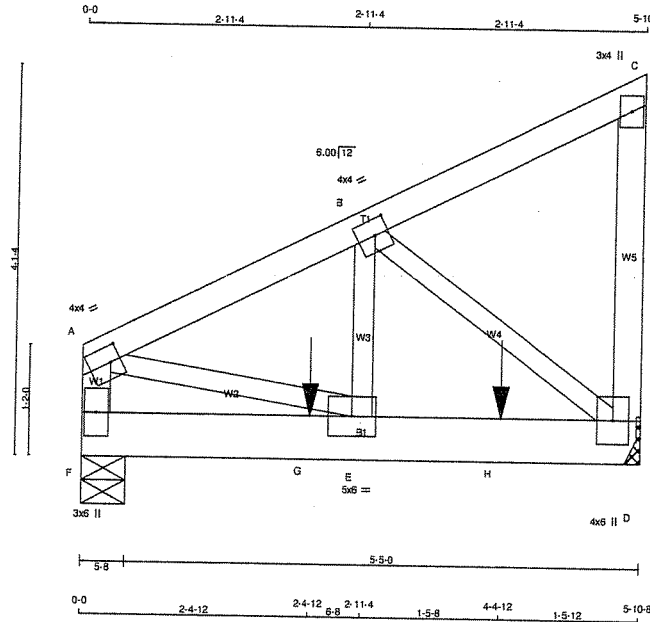
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115277 *nl*

JOB NAME 410965	TRUSS NAME T13	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. Fri May 21 15:57:20 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-zswJrVuNrH327QLHQpUB87AQOplyCqUpVwVHTzEExT



Scale = 1/2" = 1'

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A 1	12	TOP
A-C 1	12	TOP
C-D 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-t	MT20	4.0	4.0	2.00	1.25
B	TMVW-t	MT20	4.0	4.0	2.00	1.75
C	TMVW-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

BEARINGS	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
JT	913	0	913	0	5-8	5-8
F	1131	0	1131	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
JT	644	431 / 0	0 / 0	0 / 0	0 / 0	213 / 0
D	798	535 / 0	0 / 0	0 / 0	0 / 0	263 / 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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FORCE (LC)	LC1 (LC)
FR-TO		FROM TO		FR-TO			
F-A	-831 / 0	0.0	0.0 0.05 (1)	A-E	0 / 978	0.12 (1)	
A-B	-1046 / 0	-91.8	-91.8 0.06 (1)	E-B	0 / 874	0.11 (1)	
B-C	-12 / 0	-91.8	-91.8 0.06 (1)	B-D	-1190 / 0	0.14 (1)	
D-C	-109 / 0	0.0	0.0 0.01 (1)				
F-G	0 / 0	-18.5	-18.5 0.08 (1)				
G-E	0 / 0	-18.5	-18.5 0.08 (1)				
E-H	0 / 946	-18.5	-18.5 0.22 (1)				
H-D	0 / 946	-18.5	-18.5 0.22 (1)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-4-12	-492	-492	---	FRONT	VERT	TOTAL	---	C1
H	4-4-12	-492	-492	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.06/1.00 (A-B:1), BC=0.22/1.00 (D-E:1),
WB=0.14/1.00 (B-D:1), SSI=0.22/1.00 (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 (PLI)
MT20	650	371	1747
			788
			1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.81 (A) (INPUT = 0.90)
JSI METAL = 0.21 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115278 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410965	T13	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

PLATES (table is in inches)

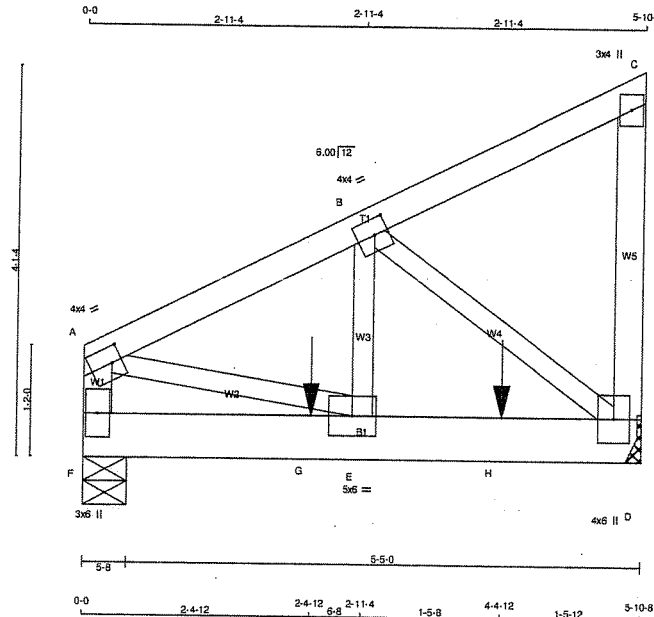
JT	TYPE	PLATES	W	LEN	Y	X
F	BMV1+p	MT20	3.0	6.0		

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



Structural component only
DWG# T-2115278 212

JOB NAME 410965	TRUSS NAME T13Z	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. Fri May 21 15:57:21 2021 Page 1 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-R3Uh2qu?cbCvLawT_WpjlLlAn9Thf1e18f3pwzEEExS	



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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122\"X3\") SPIRAL NAILS		
F - A 1	12	TOP
A - C 1	12	TOP
C - D 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-t	MT20	4.0	4.0	2.00	1.25
B	TMVW-t	MT20	4.0	4.0	2.00	1.75
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

BEARINGS

JT	FACTORED GROSS REACTION VERT	MAXIMUM FACTORED GROSS REACTION DOWN	INPUT BRG IN-SX	REQD BRG IN-SX
F	927	0	5-8	5-8
D	1150	0	MECHANICAL	

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
F	852	448 / 0	0 / 0	0 / 0	0 / 0	205 / 0	0 / 0
D	809	558 / 0	0 / 0	0 / 0	0 / 0	251 / 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 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX CSI (LC)	
FR-TO		FROM TO		FR-TO			
F - A	-844 / 0	0.0	0.0 0.05 (1)	A - E	0 / 996	0.12 (1)	
A - B	-1065 / 0	-91.8	-91.8 0.06 (1)	E - B	0 / 895	0.11 (1)	
B - C	-12 / 0	-91.8	-91.8 0.06 (1)	B - D	-1211 / 0	0.14 (1)	
D - C	-109 / 0	0.0	0.0 0.01 (1)				
F - G	0 / 0	-18.5	-18.5 0.08 (1)				
G - E	0 / 0	-18.5	-18.5 0.08 (1)				
E - H	0 / 963	-18.5	-18.5 0.22 (1)				
H - D	0 / 963	-18.5	-18.5 0.22 (1)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-4-12	-502	-502	---	BACK	VERT	TOTAL	---	C1
H	4-4-12	-502	-502	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/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) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.01")

CSI: TC=0.06/1.00 (A-B:1), BC=0.22/1.00 (D-E:1),
WB=0.14/1.00 (B-D:1), SSI=0.23/1.00 (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	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 (A) (INPUT = 0.90)

JSI METAL = 0.22 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115279

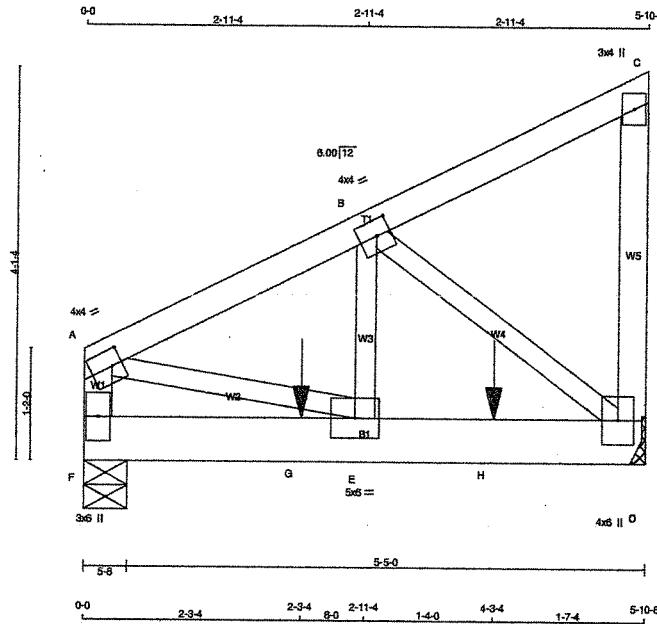
CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.														
410965	T13Z	1	2	TRUSS DESC.																
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 15:57:21 2021 Page 2 ID:GAonzd6DLBrd2xE89xtNtRz BuP-R3Uh2qu?cbCvIawT WpjlLfAn9Thf1e18f3pwzEEExS																
PLATES (table is in inches) <table><tr><td>JT</td><td>TYPE</td><td>PLATES</td><td>W</td><td>LEN</td><td>Y</td><td>X</td></tr><tr><td>F</td><td>BMV1+p</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr></table> NOTES- (1) 1) Lateral braces to be a minimum of 2x4 SPF #2							JT	TYPE	PLATES	W	LEN	Y	X	F	BMV1+p	MT20	3.0	6.0		
JT	TYPE	PLATES	W	LEN	Y	X														
F	BMV1+p	MT20	3.0	6.0																
 05/22/21 H. J. G. ALVES 100009024 PROVINCE OF ONTARIO Structural component only DWG# T-2115279 <i>mn</i>																				

JOB NAME 410967	TRUSS NAME T13Z1	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. Mon May 24 12:26:24 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNfRz_BuP-Ft460RZmNx0KFy53GSSySHEnemwBdKlcWtFXYPzDIID



Scale = 1/2" = 1'-0"

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A	12	TOP
A - C	12	TOP
C - D	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	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-t	MT20	4.0	4.0	2.00 1.25
B	TMVW-t	MT20	4.0	4.0	2.00 1.75
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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
JT	VERT	HORZ	DOWN	UPLIFT
F	958	0	958	0
D	1120	0	1120	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
F	674 463 / 0 0 / 0 0 / 0 211 / 0 0 / 0
D	787 543 / 0 0 / 0 0 / 0 245 / 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO							FR-TO			
F - A	-852 / 0	0.0	0.0	0.05 (1)	7.81		A - E	0 / 1006	0.12 (1)	
A - B	-1076 / 0	-91.8	-91.8	0.06 (1)	6.25		E - B	0 / 908	0.11 (1)	
B - C	-12 / 0	-91.8	-91.8	0.06 (1)	6.25		B - D	-1224 / 0	0.15 (1)	
D - C	-109 / 0	0.0	0.0	0.01 (1)	7.81					
F - G	0 / 0	-18.5	-18.5	0.09 (1)	10.00					
G - E	0 / 0	-18.5	-18.5	0.09 (1)	10.00					
E - H	0 / 973	-18.5	-18.5	0.21 (1)	10.00					
H - D	0 / 973	-18.5	-18.5	0.21 (1)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-3-4	-502	-502	---	BACK	VERT	TOTAL	---	C1
H	4-3-4	-502	-502	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

CSI: TC=0.05/1.00 (A-B:1), BC=0.21/1.00 (D-E:1), WB=0.15/1.00 (B-D:1), SSI=0.22/1.00 (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 = 0.84 (A) (INPUT = 0.90)
JSI METAL = 0.22 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115286

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410967	T13Z1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Mon May 24 12:26:24 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-F460RZmNx0KFy53GSSySHEnemwBdKicWtFXYPzDlID

PLATES (table is in inches)

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

NOTES- (1)

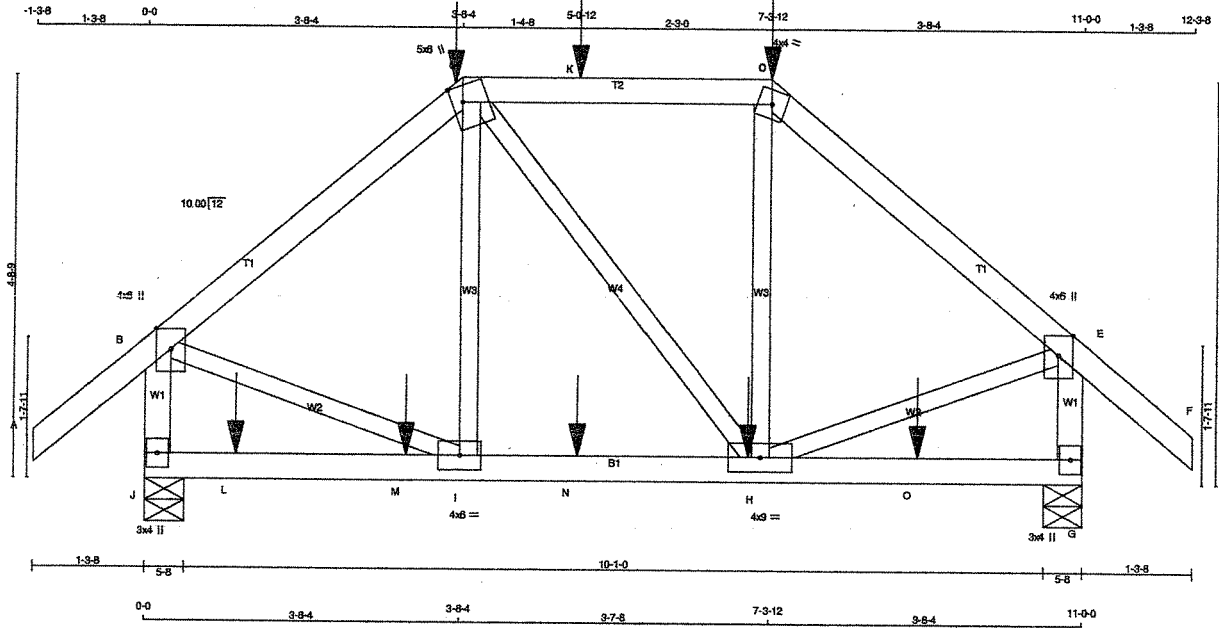
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115286 *in*

JOB NAME 410967	TRUSS NAME T20	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon May 24 12:26:25 2021 Page 1
ID:GAonzd6DLBrd2xE89xNtRz_BuP-i4eUEnaC8F8B15gGqAzB_UmtcAhqMmkIX?44szDIIC



TOTAL WEIGHT = 52 lb [M]

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
J - B	2x4	DRY	No.2
G - E	2x4	DRY	No.2
J - G	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	Edge	
C	TTWW+m	MT20	5.0	8.0	2.25	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMVW+p	MT20	4.0	6.0	Edge	
G	BMV1+p	MT20	3.0	4.0		
H	BMVWW-t	MT20	4.0	4.0		
I	BMVWW-t	MT20	4.0	6.0		
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		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
J	1209	0	1209	0	0
G	1228	0	1228	0	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	852	576/0	0/0	0/0	0/0	276/0	0/0
G	864	592/0	0/0	0/0	0/0	273/0	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 = 5.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/41	-91.8 -91.8	0.14 (1)	I-C	-125/60	0.04 (1)	
B-C	-952/0	-91.8 -91.8	0.26 (1)	C-H	0/37	0.01 (1)	
C-K	-749/0	-91.8 -91.8	0.37 (1)	H-D	-166/50	0.06 (1)	
K-D	-749/0	-91.8 -91.8	0.37 (1)	D-I	0/771	0.19 (1)	
D-E	-983/0	-91.8 -91.8	0.26 (1)	E-H	0/796	0.20 (1)	
E-F	0/41	-91.8 -91.8	0.14 (1)				
J-B	-1159/0	0.0 0.0	0.13 (1)				
G-E	-1188/0	0.0 0.0	0.14 (1)				
J-L	0/0	-18.5 -18.5	0.11 (4)				
L-M	0/0	-18.5 -18.5	0.11 (4)				
M-I	0/0	-18.5 -18.5	0.11 (4)				
I-N	0/726	-18.5 -18.5	0.19 (1)				
N-H	0/726	-18.5 -18.5	0.19 (1)				
H-O	0/0	-18.5 -18.5	0.11 (4)				
O-G	0/0	-18.5 -18.5	0.11 (4)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-8-4	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	3-8-4	-170	-170	---	FRONT	VERT	SNOW	---	C1
D	7-3-12	-40	-40	---	FRONT	VERT	DEAD	---	C1
D	7-3-12	-81	-81	---	FRONT	VERT	TOTAL	---	C1
D	7-3-12	-170	-170	---	FRONT	VERT	SNOW	---	C1
H	7-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
K	5-0-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
L	1-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
M	3-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
N	5-0-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
O	9-0-12	-21	-21	---	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 = 240 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, 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 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.37/1.00 (C-D:1), BC=0.19/1.00 (H-I:1),
WB=0.20/1.00 (E-H:1), SSI=0.20/1.00 (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)
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.

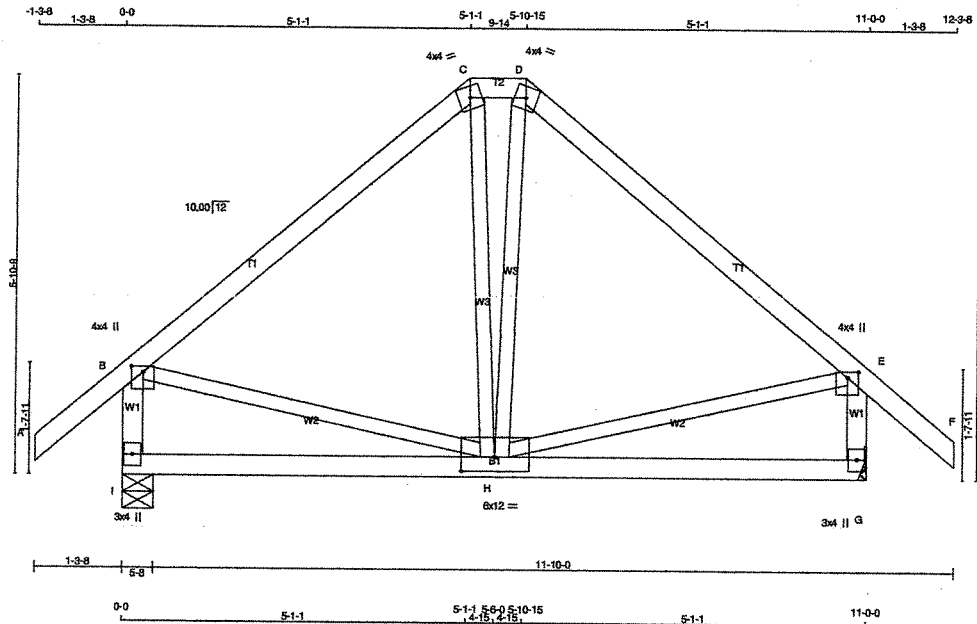
JSI GRIP= 0.74 (E) (INPUT = 0.90)
JSI METAL= 0.49 (E) (INPUT = 1.00)



Structural component only
DWG# T-2115287

JOB NAME 410967	TRUSS NAME T21	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. Mon May 24 12:26:26 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-BGBsR7b0vYG2VFFS0tUQXiJ3JadS5FyzBkedizDIIB



TOTAL WEIGHT = 53 lb [MIF]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C	TTW-m	MT20	4.0	4.0	
D	TTW-m	MT20	4.0	4.0	
E	TMVW+p	MT20	4.0	4.0	1.00 2.00
G	BMV1+p	MT20	3.0	4.0	
H	BMVWW+m	MT20	6.0	12.0	2.50 6.00
I	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UPLIFT	IN-SX
I	733	0	733	0
G	733	0	733	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	516	352/0	0/0	0/0	0/0	164/0	0/0
G	516	352/0	0/0	0/0	0/0	164/0	0/0

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

BRACING

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

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

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)	MAX. FACTORED UNBRACED LENGTH	FR-TO
FR-TO		FROM	TO	FR-TO			
A-B	0/41	-91.8	-91.8 0.13 (1)	10.00	B-H	0/319	0.07 (1)
B-C	-405/0	-91.8	-91.8 0.31 (1)	6.25	H-E	0/319	0.07 (1)
C-D	-310/0	-91.8	-91.8 0.01 (1)	6.25	C-H	-11/44	0.02 (4)
D-E	-405/0	-91.8	-91.8 0.31 (1)	6.25	H-D	-11/44	0.02 (4)
E-F	0/41	-91.8	-91.8 0.13 (1)	10.00			
F-B	-694/0	0.0	0.0 0.07 (1)	7.81			
G-E	-694/0	0.0	0.0 0.07 (1)	7.81			
F-H	0/0	-18.5	-18.5 0.16 (4)	10.00			
H-G	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

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 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.31/1.00 (D-E:1), BC=0.16/1.00 (H-I:4), WB=0.07/1.00 (B-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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

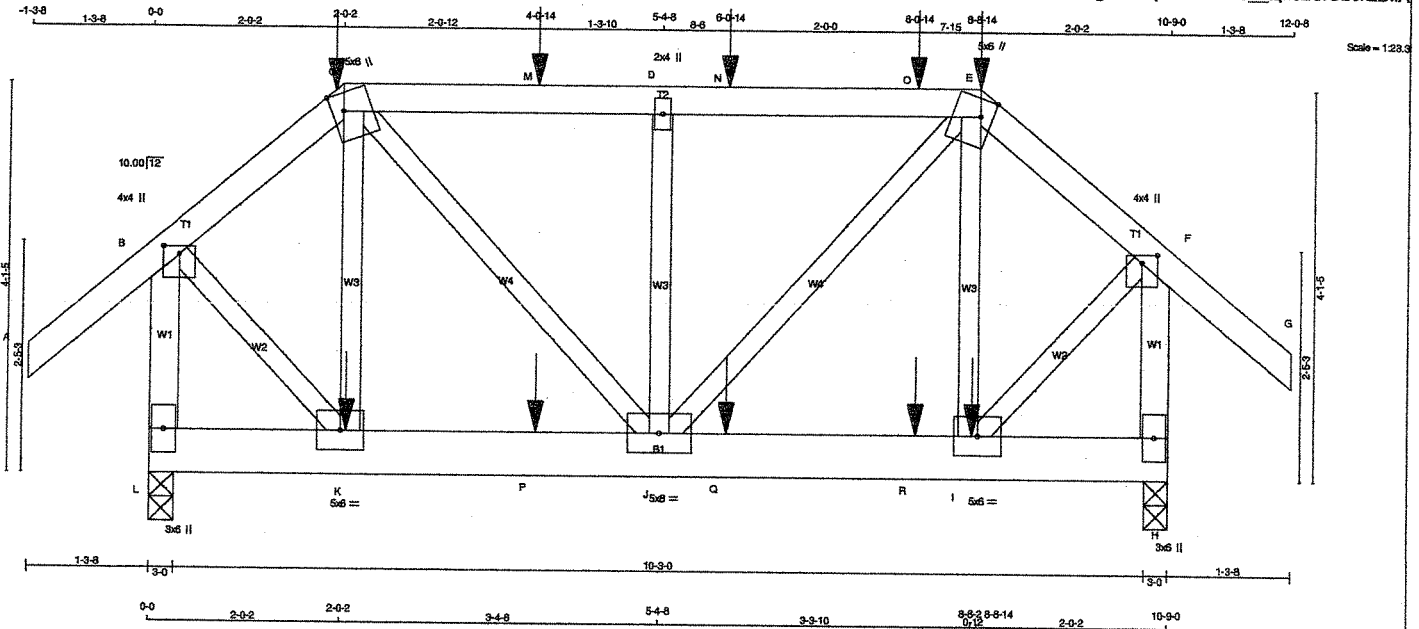
JSI GRIP= 0.59 (B) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115288

JOB NAME 410967	TRUSS NAME T22	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Mon May 24 12:28:27 2021 Page 1
ID:w1TZ5RpU4szZlCfG5PpdzFeW5-fSIFTbfgsOv6Ppexa?f3vrF5_tqh62CrUB9kzDIAA



TOTAL WEIGHT = 61 lb

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	2x4	DRY	No.2
H - F	2x4	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	4.0	4.0	1.00	2.00
C	TTWW+m	MT20	5.0	6.0	2.25	1.50
D	TMVW+m	MT20	2.0	4.0		
E	TTWW+m	MT20	5.0	6.0	2.25	1.50
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
H	BMV1+p	MT20	3.0	6.0		
I	BMWW+1	MT20	5.0	6.0		
J	BMWWW+1	MT20	5.0	8.0		
K	BMWW+1	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	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
L	939	0	939	0
H	971	0	971	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	661	450 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0
H	683	466 / 0	0 / 0	0 / 0	0 / 0	217 / 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 = 6.25 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 / 41	-91.8 -91.8	0.14 (1)	10.00	K-C	-285 / 0	0.07 (1)
B-C	-518 / 0	-91.8 -91.8	0.07 (1)	6.25	C-J	0 / 365	0.09 (1)
C-M	-632 / 0	-91.8 -91.8	0.24 (1)	6.25	J-D	-478 / 0	0.12 (1)
M-D	-632 / 0	-91.8 -91.8	0.24 (1)	6.25	J-E	0 / 339	0.08 (1)
D-N	-633 / 0	-91.8 -91.8	0.24 (1)	6.25	I-E	-295 / 0	0.08 (1)
N-O	-633 / 0	-91.8 -91.8	0.24 (1)	6.25	B-K	0 / 546	0.14 (1)
O-E	-633 / 0	-91.8 -91.8	0.24 (1)	6.25	I-F	0 / 571	0.14 (1)
E-F	-541 / 0	-91.8 -91.8	0.07 (1)	6.25			
F-G	0 / 41	-91.8 -91.8	0.14 (1)	10.00			
L-B	-930 / 0	0.0 0.0	0.12 (1)	7.81			
H-F	-962 / 0	0.0 0.0	0.13 (1)	7.81			
L-K	0 / 0	-18.5 -18.5	0.02 (4)	10.00			
K-P	0 / 388	-18.5 -18.5	0.08 (1)	10.00			
P-J	0 / 388	-18.5 -18.5	0.08 (1)	10.00			
J-Q	0 / 405	-18.5 -18.5	0.08 (1)	10.00			
Q-R	0 / 405	-18.5 -18.5	0.08 (1)	10.00			
R-I	0 / 405	-18.5 -18.5	0.08 (1)	10.00			
I-H	0 / 0	-18.5 -18.5	0.02 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIRL	TYPE	HEEL	CONN.
C	2-0-2	-9	-	-	FRONT	VERT	DEAD	-	C1
C	2-0-2	-41	-	-	BACK	VERT	TOTAL	-	C1
C	2-0-2	-36	-	-	FRONT	VERT	SNOW	-	C1
E	8-8-14	-9	-	-	FRONT	VERT	DEAD	-	C1
E	8-8-14	-41	-	-	BACK	VERT	TOTAL	-	C1
E	8-8-14	-36	-	-	FRONT	VERT	SNOW	-	C1
I	8-8-2	-8	-	-	BACK	VERT	TOTAL	-	C1
M	2-0-14	-8	-	-	BACK	VERT	TOTAL	-	C1
N	6-0-14	-36	-	-	BACK	VERT	TOTAL	-	C1
O	8-0-14	-46	-	-	BACK	VERT	TOTAL	-	C1
P	4-0-14	-8	-	-	BACK	VERT	TOTAL	-	C1
Q	6-0-14	-8	-	-	BACK	VERT	TOTAL	-	C1
R	8-0-14	-8	-	-	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 = 240 IN.CC

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 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 RDOF LIVE LOAD

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

CSI: TC=0.24/1.00 (D-E:1), BC=0.08/1.00 (I-J:1),
WB=0.14/1.00 (F-I:1), SSI=0.22/1.00 (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.

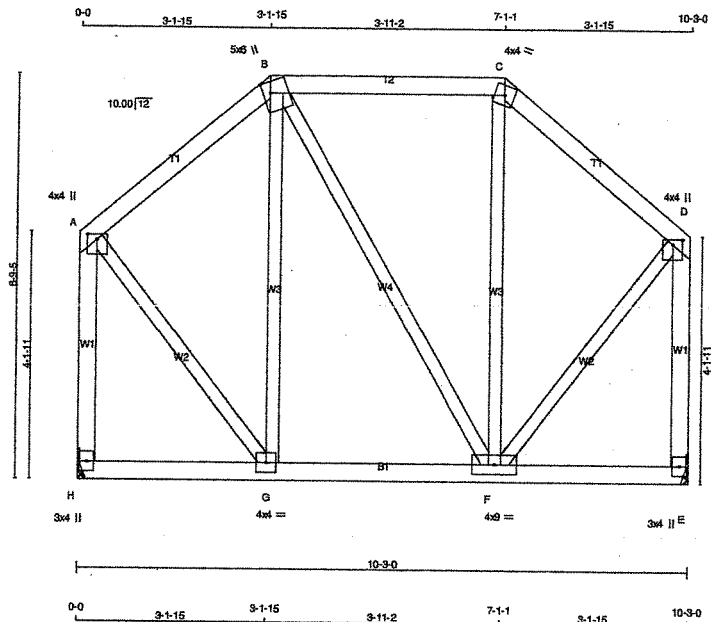
JSI GRIP= 0.65 (F) (INPUT = 0.90)
JSI METAL= 0.19 (F) (INPUT = 1.00)



Structural component only
DWG# T-2115289

JOB NAME 410967	TRUSS NAME T23	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon May 24 12:26:27 2021 Page 1
ID:w1TZe5RpU4szZlCfG5PpdzFeW5-fSIFtbfgsOv6Ppexa?f3vrG1_8qIP2CrUB9kzDIA



Scale = 1/32"

TOTAL WEIGHT = 58 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	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TTWW+m	MT20	5.0	6.0	2.25	1.50
C	TTW-m	MT20	4.0	4.0		
D	TMVW+p	MT20	4.0	4.0	1.00	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	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
H	565	0	565	0
E	565	0	565	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

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	400	262 / 0	0 / 0	0 / 0	0 / 0	137 / 0	0 / 0
E	400	262 / 0	0 / 0	0 / 0	0 / 0	137 / 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	FACTORED			MEMB.	MAX. FACTORED			
	FORCE	VERT. LOAD	LC1	MAX		FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)		
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	-258 / 0	-91.8	-91.8	0.12 (1)	6.25	G-B	-158 / 0	0.12 (1)	
B-C	-195 / 0	-91.8	-91.8	0.18 (1)	6.25	B-F	0 / 0	0.00 (1)	
C-D	-257 / 0	-91.8	-91.8	0.12 (1)	6.25	F-C	-160 / 0	0.12 (1)	
H-A	-541 / 0	0.0	0.0	0.16 (1)	7.81	A-G	0 / 303	0.07 (1)	
E-D	-540 / 0	0.0	0.0	0.16 (1)	7.81	F-D	0 / 303	0.07 (1)	
H-G	0 / 0	-18.5	-18.5	0.05 (4)	10.00				
G-F	0 / 195	-18.5	-18.5	0.07 (4)	10.00				
F-E	0 / 0	-18.5	-18.5	0.05 (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 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) = $L/360$ (0.34")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.34")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.01")

CSI: TC=0.18/1.00 (B-C:1), BC=0.07/1.00 (F-G:4),
WB=0.12/1.00 (C-F:1), SS=0.14/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.36 (A) (INPUT = 0.90)
JSI METAL= 0.11 (A) (INPUT = 1.00)

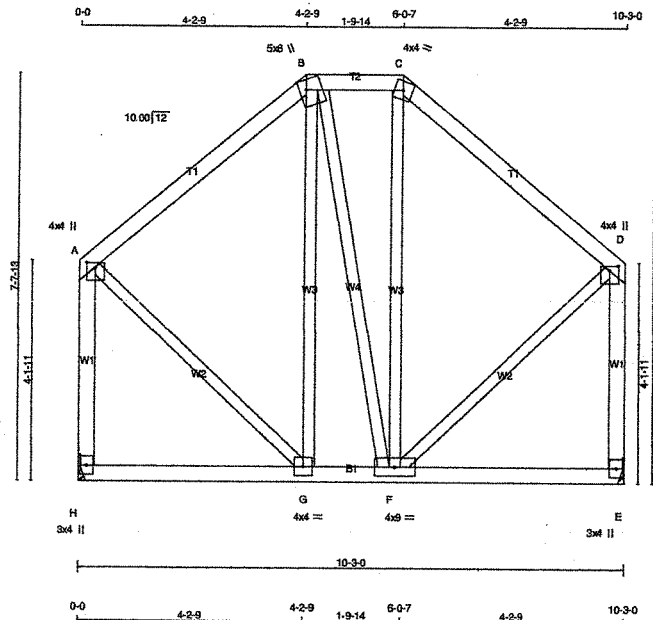


Structural component only
DWG# T-2115290

JOB NAME 410967	TRUSS NAME T24	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Mon May 24 12:26:28 2021 Page 1
ID:w1TZe5RpU4szZdCIG5PpdzFeW5-7fJdspcHRAWmkZorVixuc7OQLNK7Z9gCRVDihAzDil9



TOTAL WEIGHT = 61 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW+p	MT20	4.0	4.0	1.00 2.00
B	TTWW+m	MT20	5.0	6.0	2.25 1.50
C	TTWW-m	MT20	4.0	4.0	
D	TMVW+p	MT20	4.0	4.0	1.00 2.00
E	BMV1+p	MT20	3.0	4.0	
F	BMVWW-t	MT20	4.0	9.0	
G	BMVWW-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	MAXIMUM FACTORED	INPUT	REORD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
H	565	0	565	0	0
E	565	0	565	0	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

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
H	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	400	262 / 0	0 / 0	0 / 0	0 / 0	137 / 0	0 / 0
E	400	262 / 0	0 / 0	0 / 0	0 / 0	137 / 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	-257 / 0	-91.8 -91.8	0.21 (1)	G-B	-109 / 7	0.12 (1)	
B-C	-194 / 0	-91.8 -91.8	0.04 (1)	B-F	-3 / 0	0.00 (1)	
C-D	-258 / 0	-91.8 -91.8	0.21 (1)	F-C	-113 / 8	0.12 (1)	
H-A	-532 / 0	0.0 0.0	0.15 (1)	A-G	0 / 262	0.06 (1)	
E-D	-530 / 0	0.0 0.0	0.15 (1)	F-D	0 / 261	0.06 (1)	
H-G	0 / 0	-18.5 -18.5	0.07 (4)				
G-F	0 / 195	-18.5 -18.5	0.08 (4)				
F-E	0 / 0	-18.5 -18.5	0.07 (4)				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 (0.34")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.21/1.00 (A-B:1), BC=0.08/1.00 (F-G:4), WB=0.12/1.00 (C-F: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= 0.36 (A) (INPUT = 0.90)
JSI METAL= 0.11 (A) (INPUT = 1.00)

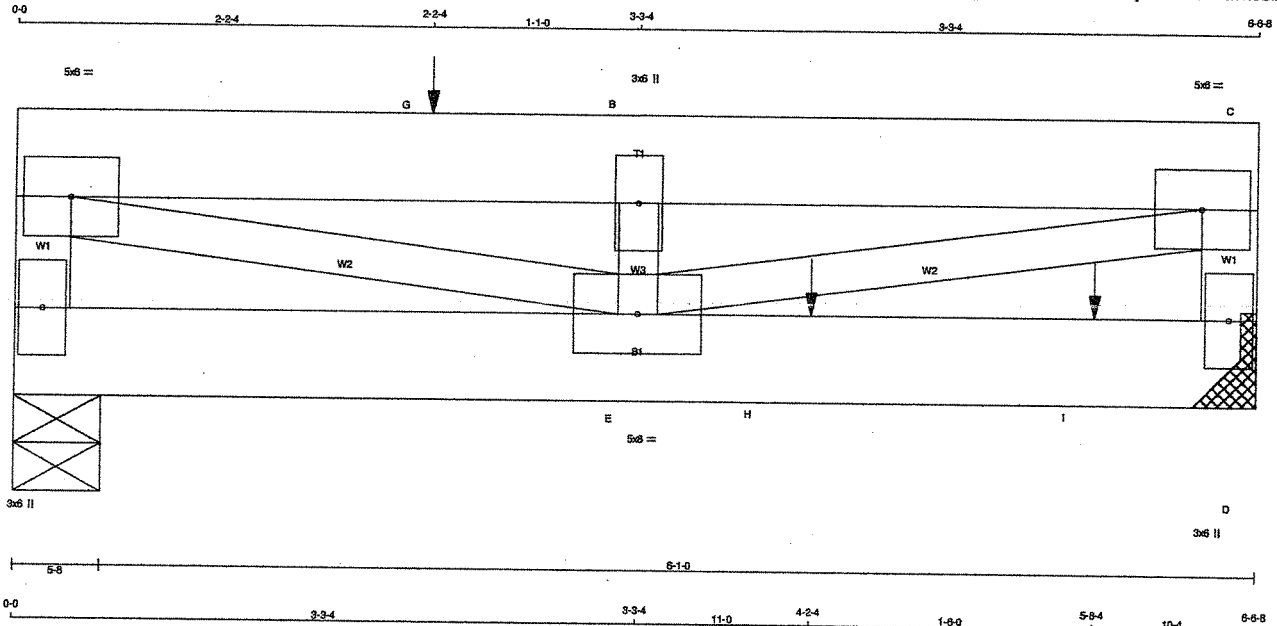


Structural component only
DWG# T-2115291

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410967	T25	2	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon May 24 12:26:29 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-crt?49dvCTedMjz13?279KxavnebiZALf9ziDdzD118



Scale = 1:11.7

TOTAL WEIGHT = 4 X 30 = 120 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
F - A	2x4	DRY	No.2	SPF	
A - C	2x6	DRY	No.2	SPF	
O - 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	12	TOP
A - C	12	TOP
O - C	12	TOP
F - D	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	12	SIDE(14.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL 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	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ
F	1278	0	1278	0
D	1485	0	1485	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	
F	908 569 / 0 0 / 0 0 / 0 0 / 0 0
D	1050 689 / 0 0 / 0 0 / 0 0 / 0 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED 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												
F-A	-1168 / 0	0.0	0.0	0.06 (1)	7.81	A-E	0 / 2393	0.30 (1)				
A-G	-2280 / 0	-91.8	-91.8	0.28 (1)	6.25	E-B	-843 / 0	0.07 (1)				
G-B	-2280 / 0	-91.8	-91.8	0.28 (1)	6.25	E-C	0 / 2393	0.30 (1)				
B-C	-2280 / 0	-91.8	-91.8	0.06 (1)	6.25							
D-C	-888 / 0	0.0	0.0	0.05 (1)	7.81							
F-E	0 / 0	-43.5	-43.5	0.05 (1)	10.00							
E-H	0 / 0	-43.5	-43.5	0.20 (1)	10.00							
H-I	0 / 0	-18.5	-18.5	0.20 (1)	10.00							
I-D	0 / 0	-18.5	-18.5	0.20 (1)	10.00							

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-2-4	-598	-598	---	TOP	VERT	TOTAL	---	C1
H	4-2-4	-385	-385	---	BACK	VERT	TOTAL	---	C1
I	5-8-4	-386	-386	---	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 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 (0.22")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.28/1.00 (A-B:1), BC=0.20/1.00 (D-E:1), WB=0.30/1.00 (A-E:1), SSI=0.23/1.00 (A-B: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= 0.58 (E) (INPUT = 0.90)
JSI METAL= 0.26 (C) (INPUT = 1.00)



Structural component only
DWG# T-2115292

CONTINUED ON PAGE 2

JOB NAME 410967	TRUSS NAME T25	QUANTITY 2	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	---	----------

Tamarack Roof Truss, Burlington

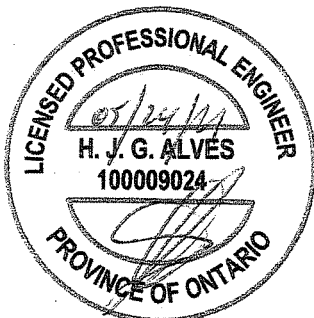
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Mon May 24 12:26:29 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-crt?49dvCTedMjz13?279KxavneblZALf9zIDdzDl18

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

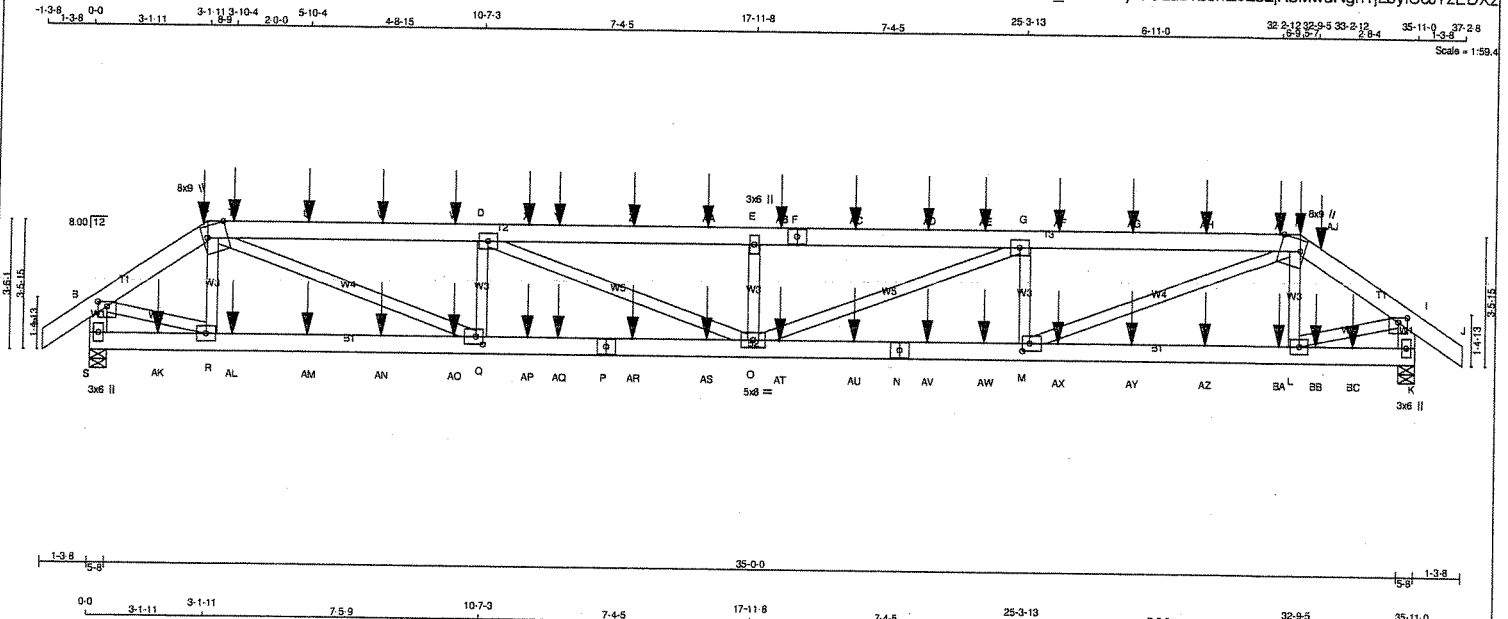


Structural component only
DWG# T-2115292 *2/2*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
418973	T30	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 17:32:48 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-Fr1j05CLuDKJhE9zo2JK3MwdNgh1jLbyfScJTzEDXz



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

ALL WEBS 2x4 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

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

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

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S - P	2	12
P - N	2	12
N - K	2	12

WEBS : (0.122"x3") SPIRAL NAILS

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
S	3484	0	3484	0	0	5-8	5-8	5-8	5-8
K	3622	0	3622	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	2462	1626 / 0	0 / 0	0 / 0	0 / 0	0 / 0	836 / 0	0 / 0
K	2560	1691 / 0	0 / 0	0 / 0	0 / 0	0 / 0	869 / 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 = 3.47 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				FACTORED		WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (PLF)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)
FR-TO		FROM	TO		FR-TO			FR-TO	
A-B	0 / 36	-91.8	-91.8	0.04 (1)	10.00	R-C	-672 / 0	0.05 (1)	
B-C	-4113 / 0	-91.8	-91.8	0.06 (1)	5.57	C-O	0 / 5591	0.49 (1)	
C-T	-8562 / 0	-91.8	-91.8	0.46 (1)	3.80	O-D	-1890 / 0	0.13 (1)	
T-U	-8562 / 0	-91.8	-91.8	0.46 (1)	3.80	D-O	0 / 1675	0.15 (1)	
U-V	-8562 / 0	-91.8	-91.8	0.46 (1)	3.80	O-E	-1026 / 0	0.07 (1)	
V-W	-8562 / 0	-91.8	-91.8	0.46 (1)	3.80	O-G	0 / 1671	0.15 (1)	
W-D	-8562 / 0	-91.8	-91.8	0.46 (1)	3.80	M-G	-1852 / 0	0.13 (1)	
D-X	-10110 / 0	-91.8	-91.8	0.53 (1)	3.47	M-H	0 / 5468	0.48 (1)	
X-Y	-10110 / 0	-91.8	-91.8	0.53 (1)	3.47	L-H	-682 / 0	0.05 (1)	
Y-Z	-10110 / 0	-91.8	-91.8	0.53 (1)	3.47	B-R	0 / 3535	0.31 (1)	
Z-AA	-10110 / 0	-91.8	-91.8	0.53 (1)	3.47	L-I	0 / 3657	0.32 (1)	
AA-E	-10110 / 0	-91.8	-91.8	0.53 (1)	3.47				
E-AB	-10110 / 0	-91.8	-91.8	0.52 (1)	3.48				
AB-F	-10110 / 0	-91.8	-91.8	0.52 (1)	3.48				
F-AC	-10110 / 0	-91.8	-91.8	0.52 (1)	3.48				
AC-AD	-10110 / 0	-91.8	-91.8	0.52 (1)	3.48				
AD-AE	-10110 / 0	-91.8	-91.8	0.52 (1)	3.48				
AE-G	-10110 / 0	-91.8	-91.8	0.52 (1)	3.48				
G-AF	-8565 / 0	-91.8	-91.8	0.45 (1)	3.81				
AF-AG	-8565 / 0	-91.8	-91.8	0.45 (1)	3.81				
AG-AH	-8565 / 0	-91.8	-91.8	0.45 (1)	3.81				
AH-AI	-8565 / 0	-91.8	-91.8	0.45 (1)	3.81				
AI-H	-8565 / 0	-91.8	-91.8	0.45 (1)	3.81				
H-AJ	-4228 / 0	-91.8	-91.8	0.08 (1)	5.50				
AJ-I	-4228 / 0	-91.8	-91.8	0.08 (1)	5.50				
I-J	0 / 36	-91.8	-91.8	0.04 (1)	10.00				
S-B	-3503 / 0	0.0	0.0	0.12 (1)	7.48				
K-I	-3634 / 0	0.0	0.0	0.13 (1)	7.37				

S-AK	0 / 0	-18.5	-18.5	0.08 (4)	10.00
AK-R	0 / 0	-18.5	-18.5	0.08 (4)	10.00
R-AL	0 / 3378	-18.5	-18.5	0.29 (1)	10.00
AL-AM	0 / 3378	-18.5	-18.5	0.29 (1)	10.00
AM-AN	0 / 3378	-18.5	-18.5	0.29 (1)	10.00
AN-AO	0 / 3378	-18.5	-18.5	0.29 (1)	10.00
AO-Q	0 / 3378	-18.5	-18.5	0.29 (1)	10.00
Q-AP	0 / 8562	-18.5	-18.5	0.65 (1)	10.00
AP-AQ	0 / 8562	-18.5	-18.5	0.65 (1)	10.00
AQ-P	0 / 8562	-18.5	-18.5	0.65 (1)	10.00
P-AR	0 / 8562	-18.5	-18.5	0.65 (1)	10.00
AR-AS	0 / 8562	-18.5	-18.5	0.65 (1)	10.00
AS-O	0 / 8562	-18.5	-18.5	0.65 (1)	10.00
O-AT	0 / 8566	-18.5	-18.5	0.64 (1)	10.00

TOTAL WEIGHT = 2 X 195 = 391 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/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 088-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.29")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/788 (0.55")

CSI: TC=0.53/1.00 (D-E:1), BC=0.65/1.00 (O-Q:1),
WB=0.49/1.00 (C-Q:1), SS=0.22/1.00 (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 (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= 0.87 (M) (INPUT = 0.90)
JSI METAL= 0.83 (P) (INPUT = 1.00)



Structural component only
DWG# T-2115334

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
418973	T30	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri May 21 17:32:48 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-Fr1i05CLuDKJhE9zo2IK3MwdNgh1iLbyfScJtZEDXz

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	TTWW+m	MT20	8.0	9.0	Edge	6.50
D	TMVW-t	MT20	5.0	6.0		
F	TMVW-w	MT20	3.0	6.0		
G	TMVW-t	MT20	5.0	6.0		
H	TTWW+m	MT20	8.0	9.0	Edge	6.50
I	TMVW-p	MT20	5.0	6.0	1.50	3.00
K	BMV1+p	MT20	3.0	6.0		
L	BMVW-t	MT20	5.0	6.0		
M	BMVW-t	MT20	5.0	6.0	2.50	2.25
N	BS-t	MT20	5.0	6.0		
O	BMVWW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.25
R	BMVW-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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO				
AT-AU	0 / 8566	-18.5	-18.5	0.64 (1)	10.00		
AU-N	0 / 8566	-18.5	-18.5	0.64 (1)	10.00		
N-AV	0 / 8566	-18.5	-18.5	0.64 (1)	10.00		
AV-AW	0 / 8566	-18.5	-18.5	0.64 (1)	10.00		
AW-M	0 / 8566	-18.5	-18.5	0.64 (1)	10.00		
M-AX	0 / 3495	-18.5	-18.5	0.30 (1)	10.00		
AX-AY	0 / 3495	-18.5	-18.5	0.30 (1)	10.00		
AY-AZ	0 / 3495	-18.5	-18.5	0.30 (1)	10.00		
AZ-BA	0 / 3495	-18.5	-18.5	0.30 (1)	10.00		
BA-L	0 / 3495	-18.5	-18.5	0.30 (1)	10.00		
L-BB	0 / 0	-18.5	-18.5	0.08 (4)	10.00		
BB-BC	0 / 0	-18.5	-18.5	0.08 (4)	10.00		
BC-K	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	3-1-11	-30	-30	---	FRONT	VERT	DEAD	---	C1
C	3-1-11	-127	-127	---	FRONT	VERT	SNOW	---	C1
H	32-9-5	-30	-30	---	FRONT	VERT	DEAD	---	C1
H	32-9-5	-127	-127	---	FRONT	VERT	SNOW	---	C1
T	3-10-4	-85	-85	---	BACK	VERT	TOTAL	---	C1
U	5-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
V	7-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
W	9-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
X	11-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
Y	12-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
Z	14-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AA	16-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AB	18-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AC	20-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AD	22-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AE	24-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AF	26-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AG	28-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AH	30-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AI	32-2-12	-90	-90	---	BACK	VERT	TOTAL	---	C1
AJ	33-2-12	-93	-93	---	BACK	VERT	TOTAL	---	C1
AK	1-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AL	3-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AM	5-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AN	7-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AO	9-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AP	11-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AQ	12-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AR	14-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AS	16-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AT	18-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AU	20-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AV	22-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AW	24-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AX	26-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AY	28-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AZ	30-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
BA	32-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
BB	33-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
BC	34-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

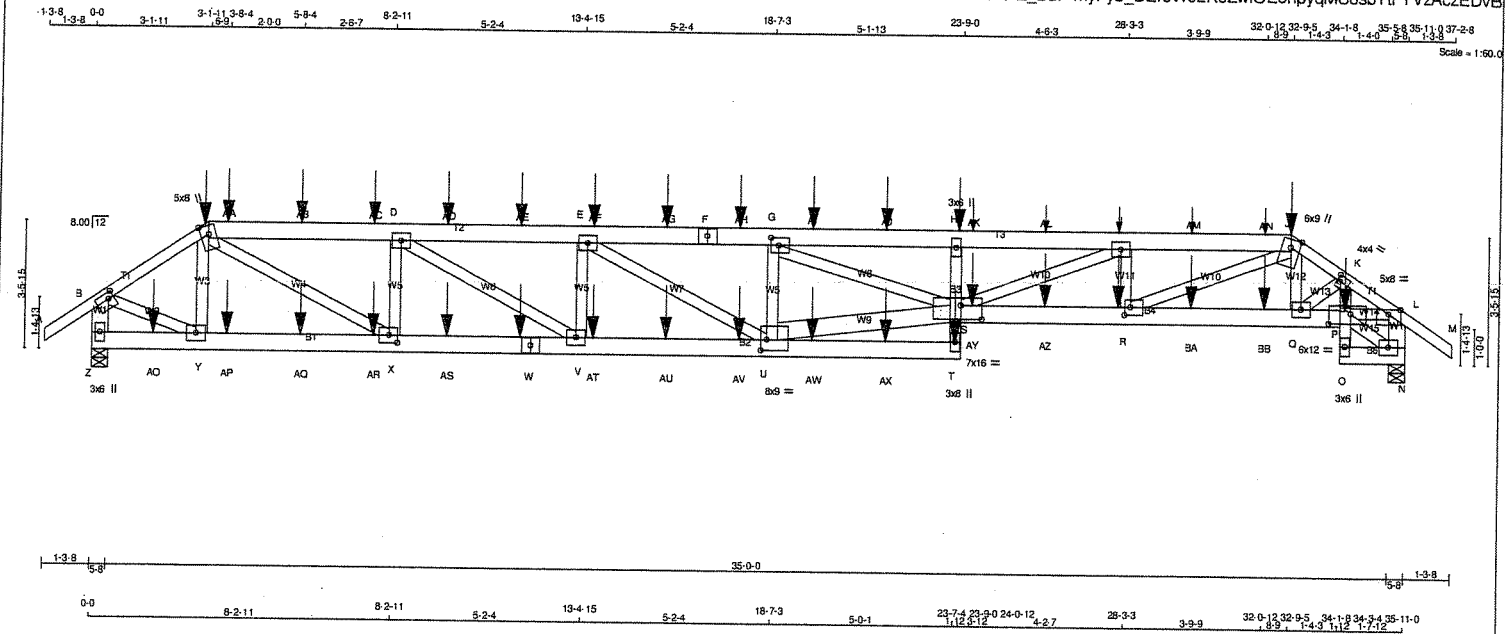


Structural component only
DWG# T-2115334

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T30S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 17:08:02 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-myFy8_DeReW92KeZwiOE6hpyqMS8sbTtFTVzAczEdvB



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - F	2x6	DRY	No.2
F - J	2x6	DRY	No.2
J - M	2x4	DRY	No.2
Z - B	2x6	DRY	No.2
N - L	2x6	DRY	No.2
Z - W	2x6	DRY	No.2
W - T	2x6	DRY	No.2
T - H	2x4	DRY	No.2
S - P	2x6	DRY	No.2
O - K	2x4	DRY	No.2
O - N	2x6	DRY	No.2
ALL WEBS EXCEPT U - S	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-C	12	SIDE(61.0)
J-M	12	SIDE(61.0)
C-F	12	SIDE(183.1)
F-J	12	SIDE(183.1)
Z-B	12	TOP
N-L	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Z-W	12	SIDE(0.0)
W-T	12	SIDE(183.1)
S-P	12	SIDE(183.1)
O-N	12	TOP
T-H	12	TOP
K-Q	12	SIDE(12.8)
WEBS : (0.122"x3") SPIRAL NAILS		
2x4	6	
2x6	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT VERT	HQRZ	DOWN	HQRZ	UPLIFT	IN-SX	IN-SX	
Z	3586	0	3586	0	5-8	5-8	
N	4135	0	4135	0	5-8	5-8	

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS	
1ST LCASE		SNOW	LIVE
JT COMBINED			
Z	2535	1870 / 0	0 / 0
N	2926	1911 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.84 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.07 (1)	Y-C	-934 / 0	0.07 (1)	
B-C	-3988 / 0	-91.8	-91.8 0.14 (1)	U-G	-2414 / 0	0.17 (1)	
C-AA	-7432 / 0	-91.8	-91.8 0.24 (1)	U-S	0 / 10567	0.69 (1)	
AA-AB	-7432 / 0	-91.8	-91.8 0.24 (1)	G-S	0 / 3954	0.35 (1)	
AB-AC	-7432 / 0	-91.8	-91.8 0.24 (1)	S-I	0 / 3704	0.33 (1)	
AC-D	-7432 / 0	-91.8	-91.8 0.24 (1)	R-I	-2017 / 0	0.12 (1)	
D-AD	-9788 / 0	-91.8	-91.8 0.28 (1)	R-J	0 / 8210	0.55 (1)	
AD-AE	-9788 / 0	-91.8	-91.8 0.28 (1)	O-J	0 / 599	0.05 (1)	
AE-E	-9788 / 0	-91.8	-91.8 0.28 (1)	Q-K	-200 / 0	0.01 (1)	
E-AF	-10740 / 0	-91.8	-91.8 0.35 (1)	B-Y	0 / 3511	0.31 (1)	
AF-AG	-10740 / 0	-91.8	-91.8 0.35 (1)	P-N	-293 / 0	0.02 (1)	
AG-F	-10740 / 0	-91.8	-91.8 0.35 (1)	P-L	0 / 5679	0.50 (1)	
F-AH	-10740 / 0	-91.8	-91.8 0.35 (1)	E-U	0 / 1109	0.10 (1)	
AH-G	-10740 / 0	-91.8	-91.8 0.35 (1)	C-X	0 / 4725	0.42 (1)	
G-AI	-14527 / 0	-91.8	-91.8 0.58 (1)	V-E	-1260 / 0	0.09 (1)	
AI-AJ	-14527 / 0	-91.8	-91.8 0.58 (1)	X-D	-2278 / 0	0.16 (1)	
AJ-H	-14527 / 0	-91.8	-91.8 0.58 (1)	D-V	0 / 2741	0.24 (1)	
H-AK	-14768 / 0	-91.8	-91.8 0.56 (1)				
AK-AL	-14768 / 0	-91.8	-91.8 0.56 (1)				
AL-I	-11374 / 0	-91.8	-91.8 0.33 (1)				
I-AM	-11374 / 0	-91.8	-91.8 0.33 (1)				
AM-AN	-11374 / 0	-91.8	-91.8 0.33 (1)				
AN-J	-11374 / 0	-91.8	-91.8 0.33 (1)				
J-K	-6814 / 0	-91.8	-91.8 0.27 (1)				
K-L	-6909 / 0	-91.8	-91.8 0.28 (1)				
L-M	0 / 35	-91.8	-91.8 0.07 (1)				
Z-B	-3571 / 0	0.0	0.0 0.13 (1)				
N-L	-3963 / 0	0.0	0.0 0.14 (1)				

Z-AO	0 / 0	-18.5	-18.5 0.04 (4)	10.00
AO-Y	0 / 0	-18.5	-18.5 0.04 (4)	10.00
Y-AP	0 / 3376	-18.5	-18.5 0.26 (1)	10.00
AP-AQ	0 / 3376	-18.5	-18.5 0.26 (1)	10.00
AQ-AR	0 / 3376	-18.5	-18.5 0.26 (1)	10.00
AR-X	0 / 3376	-18.5	-18.5 0.26 (1)	10.00
X-AS	0 / 7432	-18.5	-18.5 0.54 (1)	10.00
AS-W	0 / 7432	-18.5	-18.5 0.54 (1)	10.00
W-V	0 / 7432	-18.5	-18.5 0.54 (1)	10.00
V-AT	0 / 9788	-18.5	-18.5 0.70 (1)	10.00
AT-AU	0 / 9788	-18.5	-18.5 0.70 (1)	10.00
AU-AV	0 / 9788	-18.5	-18.5 0.70 (1)	10.00
AV-U	0 / 9788	-18.5	-18.5 0.70 (1)	10.00
U-AW	0 / 491	-18.5	-18.5 0.07 (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 = 240 IN./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, NBC 2015

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.41")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/567 (0.76")

CSI: TC=0.58/1.00 (G-H:1), BC=0.89/1.00 (R-S:1), WB=0.69/1.00 (S-U:1), SSI=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 (PSI)	SECTION (PLI)
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.



Structural component only
DWG# T-2115304

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T30S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:02 2021 Page 2
ID:GAonzd6DLBr2xE89xtNtRz BuP-myFy8 DEreW92KeZwiOE6hpyqMS8sbTtFTVzAczEDvB

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.00	1.75
C	TTWW+m	MT20	5.0	8.0	Edge	
D, E, I						
D	TMVW-t	MT20	5.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMVW-t	MT20	5.0	6.0	2.50	2.50
H	TMV+p	MT20	3.0	6.0		
J	TTWW+m	MT20	6.0	9.0	Edge	
K	TMVW-t	MT20	4.0	4.0	2.00	1.00
L	TMVW-p	MT20	5.0	8.0	Edge	
N	BMVW-t	MT20	5.0	6.0		
O	BMV+p	MT20	3.0	6.0		
P	BVMWW-t	MT20	6.0	12.0	3.25	7.00
Q, V, Y						
Q	BMVW-t	MT20	5.0	6.0		
R	BMVW-t	MT20	5.0	6.0	2.50	2.00
S	BVMWW-t	MT20	7.0	16.0	4.50	7.00
T	BMV+p	MT20	3.0	6.0		
U	BVMWW-t	MT20	8.0	9.0	3.50	2.00
W	BS-t	MT20	5.0	6.0		
X	BMVW-t	MT20	5.0	6.0	2.50	2.75
Z	BMV-t+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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC MEMB. CSI (LC)	
FR-TO		FROM TO		LENGTH FR-TO			
AW-AX	0 / 491	-18.5	-18.5	0.07 (1)	10.00		
AX-T	0 / 491	-18.5	-18.5	0.07 (1)	10.00		
T-S	0 / 109	0.0	0.0	0.38 (1)	10.00		
S-H	-460 / 0	0.0	0.0	0.37 (1)	7.81		
S-AY	0 / 11374	-18.5	-18.5	0.89 (1)	10.00		
AY-AZ	0 / 11374	-18.5	-18.5	0.89 (1)	10.00		
AZ-R	0 / 11374	-18.5	-18.5	0.89 (1)	10.00		
R-BA	0 / 5727	-18.5	-18.5	0.50 (1)	10.00		
BA-BB	0 / 5727	-18.5	-18.5	0.50 (1)	10.00		
BB-Q	0 / 5727	-18.5	-18.5	0.50 (1)	10.00		
Q-P	0 / 5919	-18.5	-18.5	0.51 (1)	10.00		
O-P	0 / 17	0.0	0.0	0.20 (1)	10.00		
P-K	0 / 295	0.0	0.0	0.22 (1)	10.00		
O-N	0 / 247	-18.5	-18.5	0.02 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-1-11	-31	-31	---	FRONT	VERT	DEAD	---	C1
C	3-1-11	-128	-128	---	FRONT	VERT	SNOW	---	C1
H	23-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
I	28-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1
J	32-9-5	-31	-31	---	FRONT	VERT	DEAD	---	C1
J	32-9-5	-128	-128	---	FRONT	VERT	SNOW	---	C1
P	34-3-4	-204	-204	---	FRONT	VERT	TOTAL	---	C1
R	28-0-12	-171	-171	---	FRONT	VERT	TOTAL	---	C1
T	23-7-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
W	11-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AA	3-8-4	-90	-90	---	FRONT	VERT	TOTAL	---	C1
AB	5-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AC	7-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AD	9-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AE	11-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AF	13-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AG	15-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AH	17-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AI	19-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AJ	21-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AK	24-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1
AL	26-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1
AM	30-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1
AN	32-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1
AO	1-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AP	3-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AQ	5-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AR	7-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AS	9-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AT	13-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AU	15-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AV	17-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AW	19-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AX	21-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AY	24-0-12	-175	-175	---	FRONT	VERT	TOTAL	---	C1
AZ	26-0-12	-171	-171	---	FRONT	VERT	TOTAL	---	C1
BA	30-0-12	-171	-171	---	FRONT	VERT	TOTAL	---	C1
BB	32-0-12	-171	-171	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

JSI GRIP= 0.89 (R) (INPUT = 0.90)

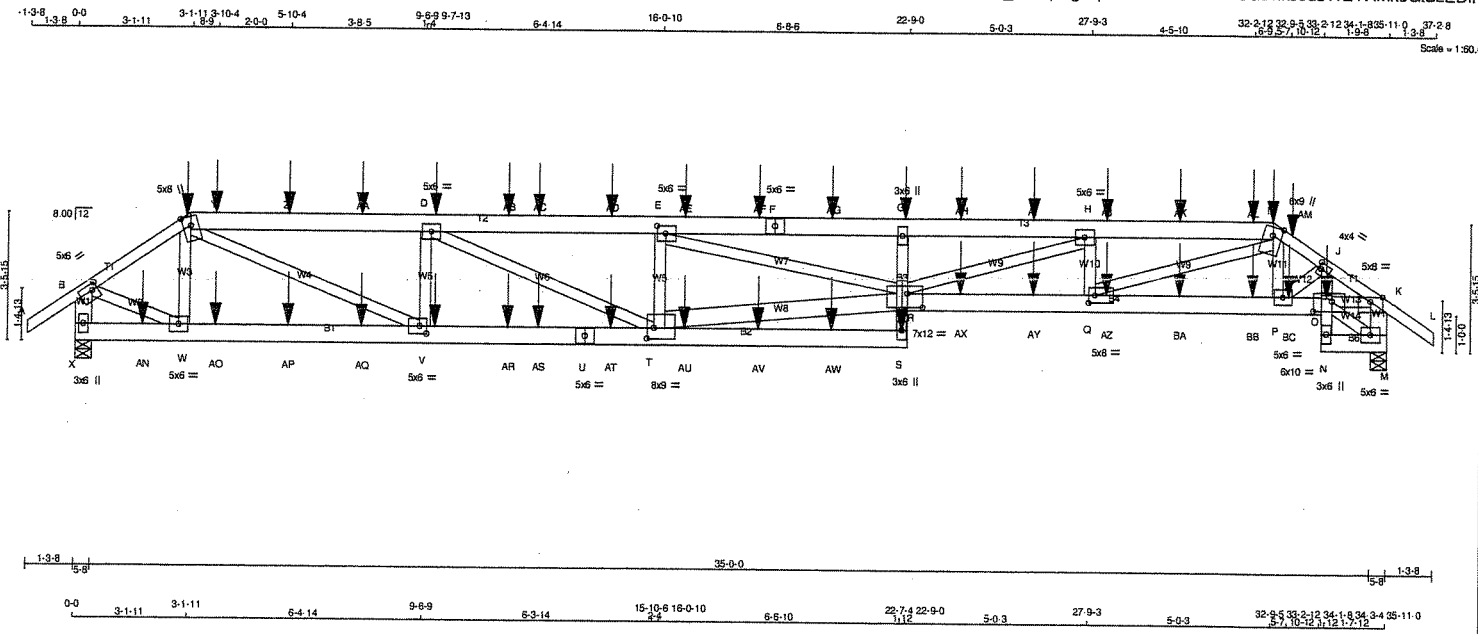
JSI METAL= 0.89 (S) (INPUT = 1.00)



Structural component only
DWG# T-2115304 3/2

JOB NAME 410970	TRUSS NAME T30S1	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. Fri May 21 17:21:40 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNrZ_BuP-pKgBqh7KCza5A1Anrv33GBhk66d5WZVYHmkeGtBzEDiP



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

ALL WEBS 2x4 DRY No.2 SPF
EXCEPT
T - R 2x6 DRY No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C 1 12	SIDE(61.0)	
I - L 1 12	SIDE(61.0)	
C - F 2 12	SIDE(183.1)	
F - I 2 12	SIDE(183.1)	
X - B 2 12	TOP	
M - K 2 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
X - U 2 12	SIDE(183.1)	
U - S 2 12	SIDE(122.0)	
R - O 2 12	SIDE(183.1)	
N - M 2 12	TOP	
S - G 1 12	TOP	
J - N 1 12	TOP	
WEBS : (0.122"x3") SPIRAL NAILS		
2x4 1 6		
2x6 2 6		

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX	BRG
X	3555	0	3555	0	0	5-8	5-8		
M	3939	0	3939	0	0	5-8	5-8		

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
X	2512	1657 / 0	0 / 0	0 / 0	0 / 0
M	2784	1833 / 0	0 / 0	0 / 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 = 2.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LC1	MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX	UNBRAC
FR-TO						FR-TO			
A - B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	W - C	-879 / 0	0.06 (1)	0.06 (1)
B - C	-3982 / 0	-91.8	-91.8	0.14 (1)	4.64	R - H	0 / 3580	0.32 (1)	0.32 (1)
C - Y	-8209 / 0	-91.8	-91.8	0.36 (1)	3.96	O - H	-2204 / 0	0.13 (1)	0.13 (1)
Y - Z	-8209 / 0	-91.8	-91.8	0.36 (1)	3.96	Q - I	0 / 6288	0.56 (1)	0.56 (1)
Z - AA	-8209 / 0	-91.8	-91.8	0.36 (1)	3.96	P - I	0 / 401	0.04 (1)	0.04 (1)
AA - D	-8209 / 0	-91.8	-91.8	0.36 (1)	3.96	P - J	-93 / 0	0.01 (1)	0.01 (1)
D - AB	-10367 / 0	-91.8	-91.8	0.44 (1)	3.51	B - W	0 / 3505	0.31 (1)	0.31 (1)
AB - AC	-10367 / 0	-91.8	-91.8	0.44 (1)	3.51	O - M	-277 / 0	0.02 (1)	0.02 (1)
AC - AD	-10367 / 0	-91.8	-91.8	0.44 (1)	3.51	O - K	0 / 5405	0.48 (1)	0.48 (1)
AD - E	-10367 / 0	-91.8	-91.8	0.44 (1)	3.51	C - V	0 / 5359	0.47 (1)	0.47 (1)
E - AE	-14383 / 0	-91.8	-91.8	0.66 (1)	2.83	T - E	-2287 / 0	0.16 (1)	0.16 (1)
AE - AF	-14383 / 0	-91.8	-91.8	0.66 (1)	2.83	V - D	-2134 / 0	0.15 (1)	0.15 (1)
AF - F	-14383 / 0	-91.8	-91.8	0.66 (1)	2.83	D - T	0 / 2401	0.21 (1)	0.21 (1)
F - AG	-14383 / 0	-91.8	-91.8	0.66 (1)	2.83	T - R	0 / 10009	0.65 (1)	0.65 (1)
AG - G	-14383 / 0	-91.8	-91.8	0.66 (1)	2.83	E - R	0 / 4055	0.36 (1)	0.36 (1)
G - AH	-14681 / 0	-91.8	-91.8	0.58 (1)	2.84				
AH - AI	-14681 / 0	-91.8	-91.8	0.58 (1)	2.84				
AI - H	-14681 / 0	-91.8	-91.8	0.58 (1)	2.84				
H - AJ	-11352 / 0	-91.8	-91.8	0.40 (1)	3.39				
AJ - AK	-11352 / 0	-91.8	-91.8	0.40 (1)	3.39				
AK - AL	-11352 / 0	-91.8	-91.8	0.40 (1)	3.39				
AL - I	-11352 / 0	-91.8	-91.8	0.40 (1)	3.39				
I - AM	-6565 / 0	-91.8	-91.8	0.24 (1)	3.63				
AM - J	-6565 / 0	-91.8	-91.8	0.24 (1)	3.63				
J - K	-6572 / 0	-91.8	-91.8	0.25 (1)	3.63				
K - L	0 / 35	-91.8	-91.8	0.07 (1)	10.00				
X - B	-3566 / 0	0.0	0.0	0.13 (1)	7.42				
M - K	-3774 / 0	0.0	0.0	0.14 (1)	7.26				

X - AN	0 / 0	-18.5	-18.5	0.07 (4)	10.00
AN - W	0 / 0	-18.5	-18.5	0.07 (4)	10.00
W - AO	0 / 3368	-18.5	-18.5	0.27 (1)	10.00
AO - AP	0 / 3368	-18.5	-18.5	0.27 (1)	10.00
AP - AQ	0 / 3368	-18.5	-18.5	0.27 (1)	10.00
AQ - V	0 / 3368	-18.5	-18.5	0.27 (1)	10.00
V - AR	0 / 8208	-18.5	-18.5	0.60 (1)	10.00
AR - AS	0 / 8208	-18.5	-18.5	0.60 (1)	10.00
AS - U	0 / 8208	-18.5	-18.5	0.60 (1)	10.00
U - AT	0 / 8208	-18.5	-18.5	0.60 (1)	10.00
AT - T	0 / 8208	-18.5	-18.5	0.60 (1)	10.00
T - AU	0 / 607	-18.5	-18.5	0.10 (4)	10.00
AU - AV	0 / 607	-18.5	-18.5	0.10 (4)	10.00
AV - AW	0 / 607	-18.5	-18.5	0.10 (4)	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 ***
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

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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/963 (0.45")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/516 (0.84")

CSI: TC=0.66/1.00 (E-G:1), BC=0.86/1.00 (Q-R:1),
WB=0.65/1.00 (R-T:1), SS=0.26/1.00 (R-S: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.



Structural component only
DWG# T-2115328

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410970	T30S1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:21:40 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-pKqBqh7KCza5A1AnrV33GBhk66d5WZYHMkeGtBzEDIP

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.00	1.75
C	TTWW+m	MT20	5.0	8.0	Edge	
D	TMVW-t	MT20	5.0	6.0		
E	TMVW-t	MT20	5.0	6.0	2.50	2.75
F	TS-t	MT20	5.0	6.0		
G	TMV+p	MT20	3.0	6.0		
H	TMVW-t	MT20	5.0	6.0		
I	TTWW+m	MT20	6.0	9.0	Edge	
J	TMVW-t	MT20	4.0	4.0	2.00	1.00
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMVW1-t	MT20	5.0	6.0		
N	BMV+p	MT20	3.0	6.0		
O	BYMWW-t	MT20	6.0	10.0	3.25	6.00
P	BMVW-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	8.0	2.50	2.00
R	BYMWW-t	MT20	7.0	12.0	4.50	5.25
S	BMV+p	MT20	3.0	6.0		
T	BMVW-t	MT20	8.0	9.0	3.50	2.25
U	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	5.0	6.0	2.50	2.25
X	BMV1+p	MT20	3.0	6.0		

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO					
AW-S	0 / 607	-18.5	-18.5 0.10 (4)	10.00			
S-R	0 / 127	0.0	0.0 0.47 (1)	10.00			
R-G	-754 / 0	0.0	0.0 0.46 (1)	7.81			
R-AX	0 / 11352	-18.5	-18.5 0.86 (1)	10.00			
AX-AY	0 / 11352	-18.5	-18.5 0.86 (1)	10.00			
AY-O	0 / 11352	-18.5	-18.5 0.86 (1)	10.00			
O-AZ	0 / 5537	-18.5	-18.5 0.46 (1)	10.00			
AZ-BA	0 / 5537	-18.5	-18.5 0.46 (1)	10.00			
BA-BB	0 / 5537	-18.5	-18.5 0.46 (1)	10.00			
BB-P	0 / 5537	-18.5	-18.5 0.46 (1)	10.00			
P-BC	0 / 5633	-18.5	-18.5 0.47 (1)	10.00			
BC-O	0 / 5633	-18.5	-18.5 0.47 (1)	10.00			
N-O	0 / 17	0.0	0.0 0.18 (1)	10.00			
O-J	0 / 106	0.0	0.0 0.19 (1)	10.00			
N-M	0 / 234	-18.5	-18.5 0.02 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-1-11	-30	-30	---	FRONT	VERT	DEAD	---	C1
C	3-1-11	-127	-127	---	FRONT	VERT	SNOW	---	C1
D	9-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
G	22-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
I	32-9-5	-30	-30	---	FRONT	VERT	DEAD	---	C1
I	32-9-5	-127	-127	---	FRONT	VERT	SNOW	---	C1
O	34-3-4	-28	-28	---	BACK	VERT	TOTAL	---	C1
S	22-7-4	-28	-28	---	BACK	VERT	TOTAL	---	C1
V	9-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
Y	3-10-4	-85	-85	---	BACK	VERT	TOTAL	---	C1
Z	5-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AA	7-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AB	11-10-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AC	12-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AD	14-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AE	16-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AF	18-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AG	20-8-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AH	24-2-12	-79	-79	---	BACK	VERT	TOTAL	---	C1
AI	26-2-12	-79	-79	---	BACK	VERT	TOTAL	---	C1
AJ	28-2-12	-79	-79	---	BACK	VERT	TOTAL	---	C1
AK	30-2-12	-79	-79	---	BACK	VERT	TOTAL	---	C1
AL	32-2-12	-93	-93	---	BACK	VERT	TOTAL	---	C1
AM	33-2-12	-96	-96	---	BACK	VERT	TOTAL	---	C1
AN	1-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AO	3-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AP	5-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AR	7-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AS	11-10-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AT	12-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AT	14-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AU	16-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AV	18-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AW	20-8-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AX	24-2-12	-63	-63	---	BACK	VERT	TOTAL	---	C1
AY	26-2-12	-63	-63	---	BACK	VERT	TOTAL	---	C1
AZ	28-2-12	-63	-63	---	BACK	VERT	TOTAL	---	C1
BA	30-2-12	-63	-63	---	BACK	VERT	TOTAL	---	C1
BB	32-2-12	-63	-63	---	BACK	VERT	TOTAL	---	C1
BC	33-2-12	-63	-63	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

JSI GRIP= 0.90 (T) (INPUT = 0.90)
JSI METAL= 0.78 (I) (INPUT = 1.00)

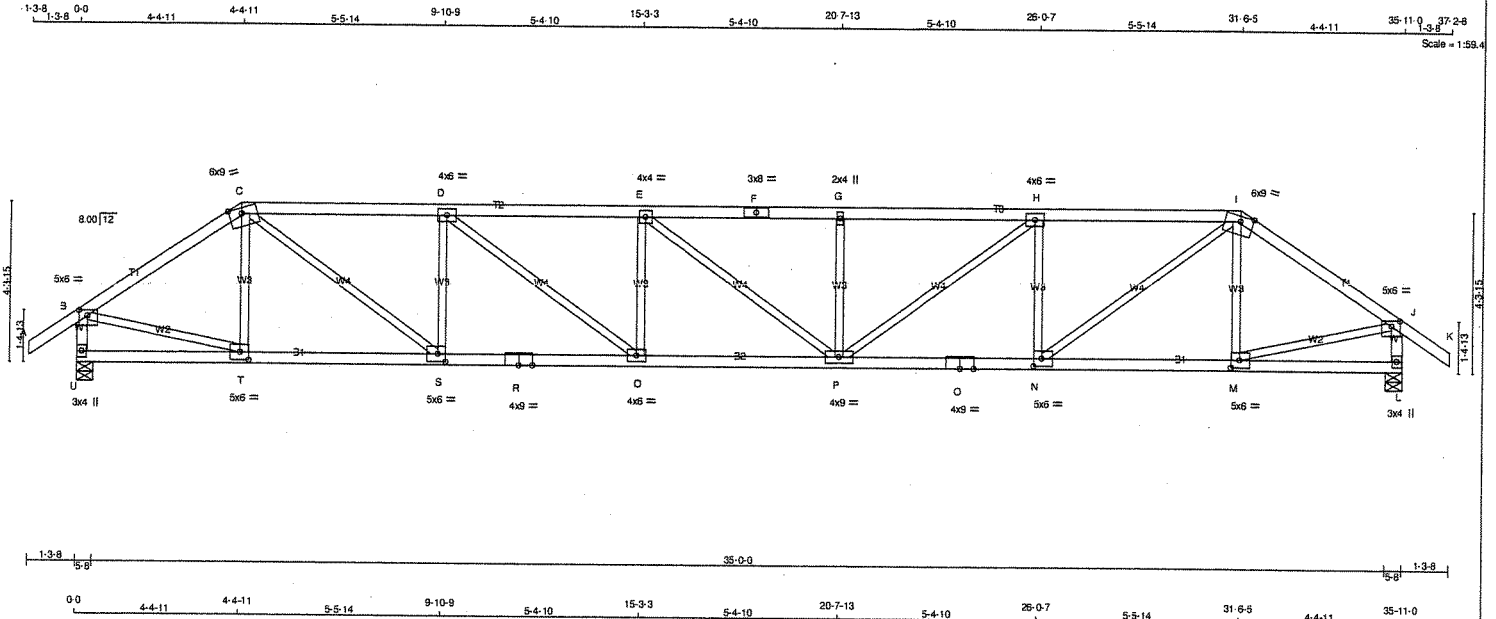


Structural component only
DWG# T-2115328

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T31	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:03 2021 Page 1
ID:GAonzd6DLBr2xE89xtNtRz_BuP-E8oKMKEscye0TtDiUQvTeuM41mqUb580U7EXi2zEDva



LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	
A - C	2x4	DRY	No.2	SPF	
C - F	2x4	DRY	No.2	SPF	
F - I	2x4	DRY	No.2	SPF	
I - K	2x4	DRY	No.2	SPF	
U - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
U - R	2x4	DRY	No.2	SPF	
R - O	2x4	DRY	No.2	SPF	
O - L	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	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	TTWV-m	MT20	6.0	9.0	1.75	4.00
D	TMWV-t	MT20	4.0	6.0		
E	TMWV-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	8.0		
G	TMWV-w	MT20	2.0	4.0		
H	TMWV-t	MT20	4.0	6.0		
I	TTWV-m	MT20	6.0	9.0	1.75	4.00
J	TMWV-p	MT20	5.0	6.0	1.75	2.75
L	BMV1-p	MT20	3.0	4.0		
M	BMWV-t	MT20	5.0	6.0	2.50	2.75
N	BMWV-t	MT20	5.0	6.0	2.50	2.50
O	BS-t	MT20	4.0	9.0		
P	BMWVW-t	MT20	4.0	9.0		
Q	BMWV-t	MT20	4.0	6.0		
R	BS-t	MT20	4.0	9.0		
S	BMWV-t	MT20	5.0	6.0	2.50	2.50
T	BMWV-t	MT20	5.0	6.0	2.50	2.75
U	BMV1-p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED		MAXIMUM FACTORED		INPUT		REQD	
	GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
U	2106	0	2106	0	5-8	5-8		
L	2106	0	2106	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
U	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
L	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 2.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	T-C	-356 / 0	0.10 (1)
B-C	-2310 / 0	-91.8 -91.8	0.42 (1)	4.10	C-S	0 / 2077	0.47 (1)
C-D	-3585 / 0	-91.8 -91.8	0.68 (1)	3.16	S-D	-1131 / 0	0.32 (1)
D-E	-4359 / 0	-91.8 -91.8	0.80 (1)	2.78	D-O	0 / 967	0.22 (1)
E-F	-4358 / 0	-91.8 -91.8	0.67 (1)	2.94	O-E	-480 / 0	0.13 (1)
F-G	-4358 / 0	-91.8 -91.8	0.67 (1)	2.94	E-P	-2 / 0	0.00 (1)
G-H	-4358 / 0	-91.8 -91.8	0.80 (1)	2.77	P-G	-479 / 0	0.13 (1)
H-I	-3586 / 0	-91.8 -91.8	0.68 (1)	3.16	P-H	0 / 965	0.22 (1)
I-J	-2310 / 0	-91.8 -91.8	0.42 (1)	4.10	N-H	-1131 / 0	0.32 (1)
J-K	0 / 35	-91.8 -91.8	0.12 (1)	10.00	N-I	0 / 2078	0.47 (1)
U-B	-2074 / 0	0.0 0.0	0.21 (1)	5.87	M-I	-357 / 0	0.10 (1)
L-J	-2074 / 0	0.0 0.0	0.21 (1)	5.87	B-T	0 / 1974	0.44 (1)
					M-J	0 / 1974	0.44 (1)
U-T	0 / 0	-18.5 -18.5	0.11 (4)	10.00			
T-S	0 / 1910	-18.5 -18.5	0.37 (1)	10.00			
S-R	0 / 3585	-18.5 -18.5	0.63 (1)	10.00			
R-O	0 / 3585	-18.5 -18.5	0.63 (1)	10.00			
Q-P	0 / 4359	-18.5 -18.5	0.76 (1)	10.00			
P-O	0 / 3586	-18.5 -18.5	0.63 (1)	10.00			
O-N	0 / 3586	-18.5 -18.5	0.63 (1)	10.00			
N-M	0 / 1910	-18.5 -18.5	0.37 (1)	10.00			
M-L	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, 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 (0.30")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/776 (0.56")

CSI: TC=0.80/1.00 (G-H:1), BC=0.76/1.00 (P-Q:1), WB=0.47/1.00 (H-N:1), SSI=0.23/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.86 (B) (INPUT = 0.90)
JSI METAL= 0.82 (C) (INPUT = 1.00)

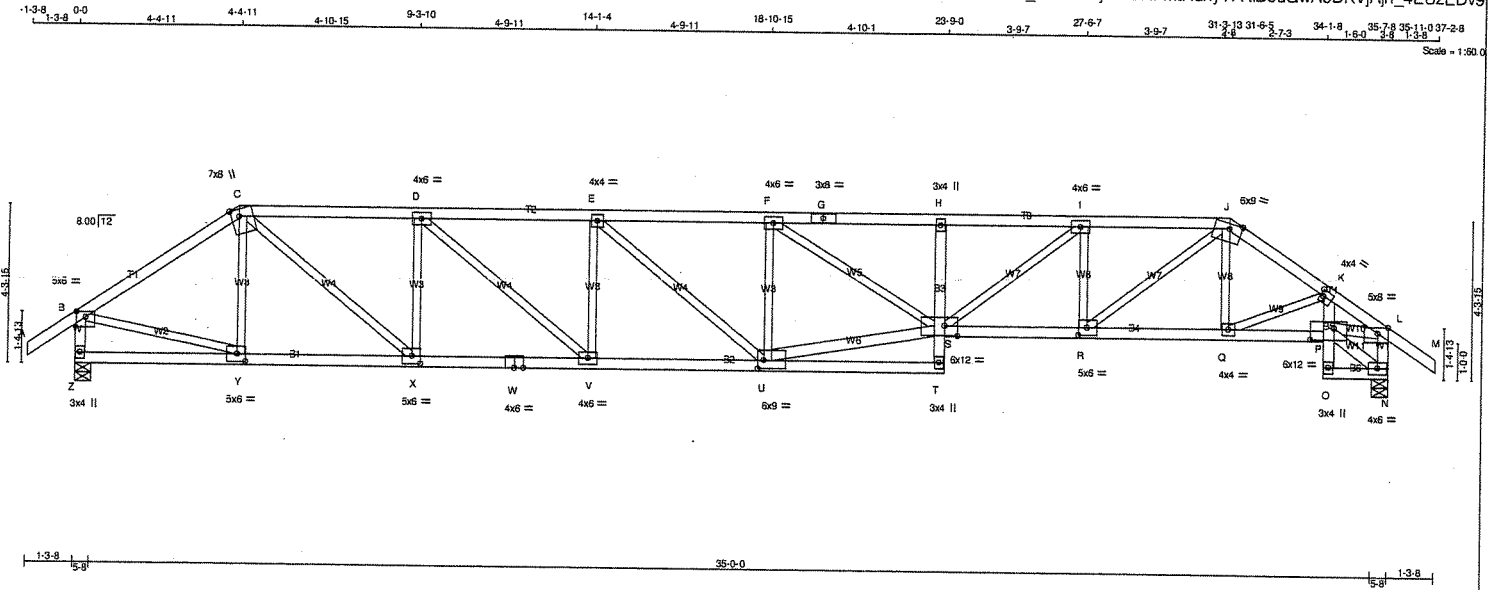


Structural component only
DWG# T-2115305

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T31S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Fri May 21 17:08:04 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-lLMZIFUNFmHdny17RiB6uGwA9DKVjAjn_4EUzEDv9



LUMBER				N. L. & A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	
A - C	2x4	DRY	No.2	SPF	
C - G	2x4	DRY	No.2	SPF	
G - J	2x4	DRY	No.2	SPF	
J - M	2x4	DRY	No.2	SPF	
Z - B	2x4	DRY	No.2	SPF	
N - L	2x4	DRY	No.2	SPF	
Z - W	2x4	DRY	No.2	SPF	
W - T	2x4	DRY	No.2	SPF	
T - H	2x4	DRY	No.2	SPF	
S - P	2x4	DRY	No.2	SPF	
O - K	2x4	DRY	No.2	SPF	
O - N	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT				SPF	
U - S	2x4	DRY	No.2	SPF	
P - N	2x4	DRY	No.2	SPF	
P - L	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX	BRG
Z	2103	0	2103	0	0	5-8	5-8	5-8	5-8
N	2108	0	2108	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LOASE	MAX./MIN. COMPONENT REACTIONS								
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
Z	1485	988 / 0	0 / 0	0 / 0	0 / 0	497 / 0	0 / 0		
N	1489	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.59 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX. FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD LC1	MAX. UNBRACED	CSI (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED	CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	Y-C	-362 / 0	0.10 (1)	
B-C	-2305 / 0	-91.8	-91.8	0.42 (1)	4.10	U-F	-967 / 0	0.27 (1)	
C-D	-3432 / 0	-91.8	-91.8	0.53 (1)	3.37	U-S	0 / 4368	0.70 (1)	
D-E	-4231 / 0	-91.8	-91.8	0.63 (1)	2.96	F-S	0 / 928	0.21 (1)	
E-F	-4430 / 0	-91.8	-91.8	0.61 (1)	2.94	Q-J	0 / 94	0.03 (4)	
F-G	-5229 / 0	-91.8	-91.8	0.73 (1)	2.59	Q-K	-412 / 0	0.08 (1)	
G-H	-5229 / 0	-91.8	-91.8	0.58 (1)	2.69	B-Y	0 / 1969	0.44 (1)	
H-I	-5286 / 0	-91.8	-91.8	0.58 (1)	2.69	P-N	-137 / 0	0.01 (1)	
I-J	-4207 / 0	-91.8	-91.8	0.45 (1)	3.14	P-L	0 / 2767	0.44 (1)	
J-K	-3014 / 0	-91.8	-91.8	0.25 (1)	3.81	E-U	0 / 261	0.06 (1)	
K-L	-3365 / 0	-91.8	-91.8	0.24 (1)	3.64	C-X	0 / 1973	0.44 (1)	
L-M	0 / 35	-91.8	-91.8	0.12 (1)	10.00	V-E	-588 / 0	0.16 (1)	
Z-B	-2070 / 0	0.0	0.0	0.21 (1)	5.88	X-D	-1164 / 0	0.32 (1)	
N-L	-2015 / 0	0.0	0.0	0.21 (1)	5.95	D-V	0 / 1044	0.23 (1)	
Z-Y	0 / 0	-18.5	-18.5	0.09 (4)	10.00	R-J	0 / 2127	0.48 (1)	
Y-X	0 / 1905	-18.5	-18.5	0.36 (1)	10.00	S-I	0 / 1364	0.31 (1)	
X-W	0 / 3432	-18.5	-18.5	0.60 (1)	10.00	R-I	-1221 / 0	0.24 (1)	
W-V	0 / 3432	-18.5	-18.5	0.60 (1)	10.00				
V-U	0 / 4231	-18.5	-18.5	0.72 (1)	10.00				
U-T	0 / 174	-18.5	-18.5	0.11 (4)	10.00				
T-S	0 / 40	0.0	0.0	0.24 (1)	10.00				
S-H	-368 / 0	0.0	0.0	0.24 (1)	7.81				
S-R	0 / 4207	-18.5	-18.5	0.73 (1)	10.00				
R-O	0 / 2511	-18.5	-18.5	0.44 (1)	10.00				
Q-P	0 / 2892	-18.5	-18.5	0.50 (1)	10.00				
O-P	0 / 17	0.0	0.0	0.18 (1)	10.00				
P-K	0 / 203	0.0	0.0	0.21 (1)	10.00				
O-N	0 / 112	-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 CBC 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 (1.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.35")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/658 (0.65")

CSI: TC=0.73/1.00 (F-H:1), BC=0.73/1.00 (R-S:1),
WB=0.70/1.00 (S-U:1), SS=0.21/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT 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 = 0.89 (R) (INPUT = 0.90)
JSI METAL = 0.78 (W) (INPUT = 1.00)



Structural component only
DWG# T-2115306

CONTINUED ON PAGE 2

JOB NAME 410969	TRUSS NAME T31S	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. Fri May 21 17:08:04 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-iLMiZfFUNFmthdny17RiB6uGwA9DKVIAIn 4EUzEDv9

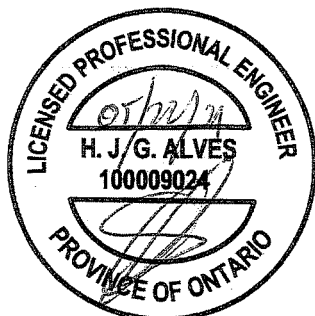
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	BS-t	MT20	4.0	6.0		
Z	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

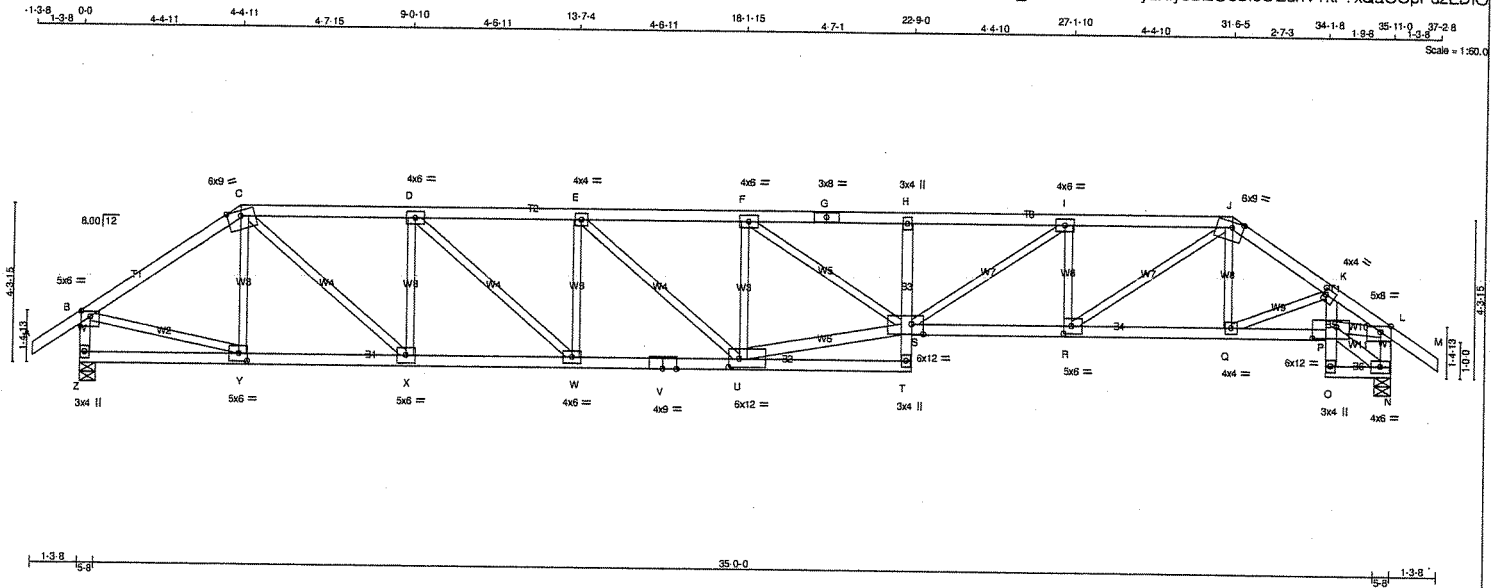


Structural component only
DWG# T-2115306

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410970	T31S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:21:41 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-HWEa118yzHiyoBlzOCbloOEunV?kF?xQaOOOpDdzEDIO



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	6.0	1.75 3.00
C	TTWW-m	MT20	6.0	9.0	Edge
D, F, I					
D	TMVW-t	MT20	4.0	6.0	
E	TMVW-t	MT20	4.0	4.0	
G	TS-t	MT20	3.0	8.0	
H	TMV-p	MT20	3.0	4.0	
J	TTWW-m	MT20	6.0	9.0	1.75 3.75
K	TMVW-t	MT20	4.0	4.0	2.00 1.00
L	TMVW-p	MT20	5.0	8.0	Edge 3.50
N	BMVW-t	MT20	4.0	6.0	
O	BMV-p	MT20	3.0	4.0	
P	BMVW-t	MT20	6.0	12.0	3.75 7.75
Q	BMVW-t	MT20	4.0	4.0	
R	BMVW-t	MT20	5.0	6.0	2.50 2.50
S	BMVWW-t	MT20	6.0	12.0	3.25 4.00
T	BMV-p	MT20	3.0	4.0	
U	BMVWW-t	MT20	6.0	12.0	2.75 3.50
V	BS-t	MT20	4.0	9.0	
W	BMVW-t	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	RECORD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
Z	2103	0	2103	0	5-8
N	2108	0	2108	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
Z	1485	988 / 0	0 / 0
N	1489	990 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT.	LC1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 35	-91.8	-91.8 0.12 (1)	Y-C	-364 / 0
B-C	-2304 / 0	-91.8	-91.8 0.42 (1)	U-F	-1091 / 0
C-D	-3365 / 0	-91.8	-91.8 0.47 (1)	U-S	0 / 4386
D-E	-4171 / 0	-91.8	-91.8 0.57 (1)	F-S	0 / 1165
E-F	-4434 / 0	-91.8	-91.8 0.55 (1)	S-I	0 / 1310
F-G	-5417 / 0	-91.8	-91.8 0.70 (1)	R-I	-1191 / 0
G-H	-5474 / 0	-91.8	-91.8 0.70 (1)	R-J	0 / 2266
H-I	-4393 / 0	-91.8	-91.8 0.73 (1)	Q-J	0 / 99
I-J	-3016 / 0	-91.8	-91.8 0.56 (1)	Q-K	-410 / 0
J-K	-3016 / 0	-91.8	-91.8 0.26 (1)	B-Y	0 / 1969
K-L	-3365 / 0	-91.8	-91.8 0.24 (1)	P-N	-137 / 0
L-M	0 / 35	-91.8	-91.8 0.12 (1)	P-L	0 / 2767
Z-B	-2070 / 0	0.0	0.0 0.21 (1)	E-U	0 / 354
N-L	-2015 / 0	0.0	0.0 0.21 (1)	C-X	0 / 1929
Z-Y	0 / 0	-18.5	-18.5 0.09 (4)	W-E	-636 / 0
Y-X	0 / 1905	-18.5	-18.5 0.36 (1)	X-D	-1180 / 0
X-W	0 / 3365	-18.5	-18.5 0.59 (1)	D-W	0 / 1076
W-V	0 / 4171	-18.5	-18.5 0.71 (1)		
V-U	0 / 4171	-18.5	-18.5 0.71 (1)		
U-T	0 / 173	-18.5	-18.5 0.10 (4)		
T-S	0 / 38	0.0	0.0 0.24 (1)		
S-H	-374 / 0	0.0	0.0 0.24 (1)		
S-R	0 / 4394	-18.5	-18.5 0.77 (1)		
R-Q	0 / 2513	-18.5	-18.5 0.45 (1)		
Q-P	0 / 2892	-18.5	-18.5 0.51 (1)		
O-P	0 / 17	0.0	0.0 0.18 (1)		
P-K	0 / 201	0.0	0.0 0.21 (1)		
O-N	0 / 112	-18.5	-18.5 0.03 (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, 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

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 (1.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.37")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/629 (0.69")

CSI: TC=0.73/1.00 (H-I:1), BC=0.77/1.00 (R-S:1), WB=0.70/1.00 (S-U:1), SS=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT 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= 0.89 (X) (INPUT = 0.90)
JSI METAL= 0.92 (V) (INPUT = 1.00)



Structural component only
DWG# T-2115329

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410970	T31S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:21:41 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-HWEa118yzHiyoBizOCbloOEunV?kF?xQaOOoPdZEDiO

PLATES (table is in inches)

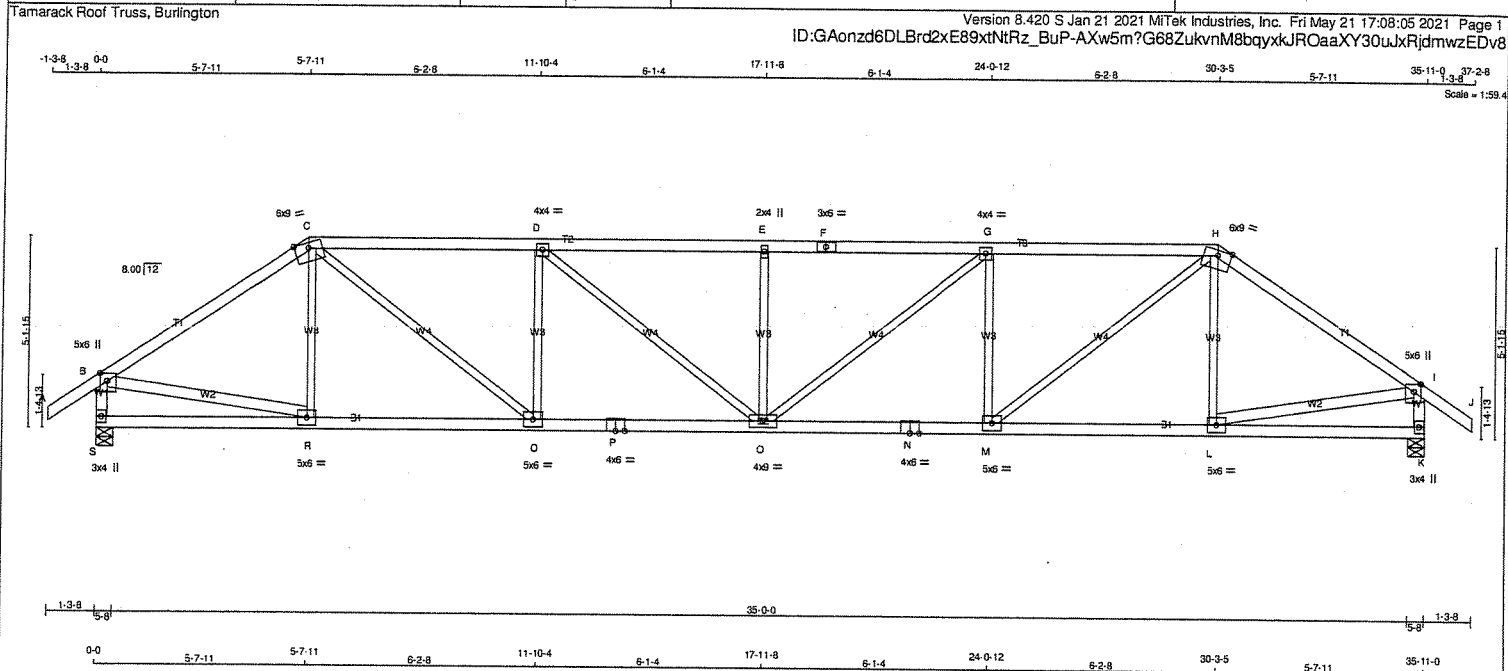
JT	TYPE	PLATES	W	LEN	Y	X
X	BMWV-l	MT20	5.0	6.0		
Y	BMWV-l	MT20	5.0	6.0	2.50	2.75
Z	BMV1+p	MT20	3.0	4.0		

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



Structural component only
DWG# T-2115329 *mn*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T32	1	1	TRUSS DESC.		



LUMBER					
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	
A - C	2x4	DRY	No.2	SPF	
C - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - 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 EXCEPT	2x3	DRY	No.2	SPF	
B - R	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	2.50 2.25
C	TTWW-m	MT20	6.0	9.0	Edge
D	TMVW-t	MT20	4.0	4.0	
E	TMVW+w	MT20	2.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMVW-t	MT20	4.0	4.0	
H	TTWW-m	MT20	6.0	9.0	Edge
I	TMVW+p	MT20	5.0	6.0	2.50 2.25
K	BMV1+p	MT20	3.0	4.0	
L, M, Q, R					
N	BMVW-t	MT20	5.0	6.0	
O	BS-t	MT20	4.0	6.0	
P	BMVW-t	MT20	4.0	9.0	
S	BS-t	MT20	4.0	6.0	
	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	UPLIFT
S	2106	0	2106	0	5-8
K	2106	0	2106	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
K	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.86 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					WEBS				
MEMB.	FORCE (LBS)	MAX. FACTORED	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB.	MAX. FACTORED	FORCE (LBS)	MAX. UNBRAC	MEMB.	MAX. FACTORED
FR-TO						FR-TO					
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	R-C	-244 / 11	0.10 (1)			
B-C	-2357 / 0	-91.8	-91.8	0.74 (1)	3.70	C-O	0 / 1722	0.39 (1)			
C-D	-3310 / 0	-91.8	-91.8	0.86 (1)	3.08	O-D	-952 / 0	0.37 (1)			
D-E	-3705 / 0	-91.8	-91.8	0.93 (1)	2.86	D-O	0 / 505	0.11 (1)			
E-F	-3705 / 0	-91.8	-91.8	0.93 (1)	2.86	O-E	-517 / 0	0.20 (1)			
F-G	-3705 / 0	-91.8	-91.8	0.93 (1)	2.86	G-O	0 / 505	0.11 (1)			
G-H	-3310 / 0	-91.8	-91.8	0.86 (1)	3.08	M-G	-952 / 0	0.37 (1)			
H-I	-2357 / 0	-91.8	-91.8	0.74 (1)	3.70	M-H	0 / 1722	0.39 (1)			
I-J	0 / 35	-91.8	-91.8	0.12 (1)	10.00	L-H	-244 / 11	0.10 (1)			
S-B	-2064 / 0	0.0	0.0	0.21 (1)	5.89	B-R	0 / 1993	0.32 (1)			
K-I	-2064 / 0	0.0	0.0	0.21 (1)	5.89	L-I	0 / 1993	0.32 (1)			
S-R	0 / 0	-18.5	-18.5	0.15 (4)	10.00						
R-O	0 / 1954	-18.5	-18.5	0.40 (1)	10.00						
O-P	0 / 3310	-18.5	-18.5	0.59 (1)	10.00						
P-O	0 / 3310	-18.5	-18.5	0.59 (1)	10.00						
O-N	0 / 3310	-18.5	-18.5	0.59 (1)	10.00						
N-M	0 / 3310	-18.5	-18.5	0.59 (1)	10.00						
M-L	0 / 1954	-18.5	-18.5	0.40 (1)	10.00						
L-K	0 / 0	-18.5	-18.5	0.15 (4)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 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) = 1/ 999 (0.22")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = 1/ 999 (0.41")

CSI: TC=0.93/1.00 (D-E:1), BC=0.59/1.00 (O-Q:1),
WB=0.39/1.00 (H-M:1), SS=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

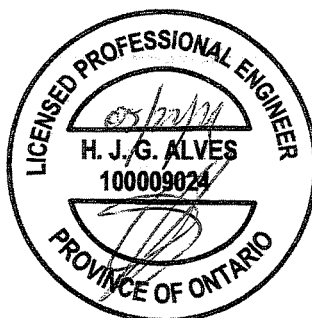
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.95 (B) (INPUT = 1.00)



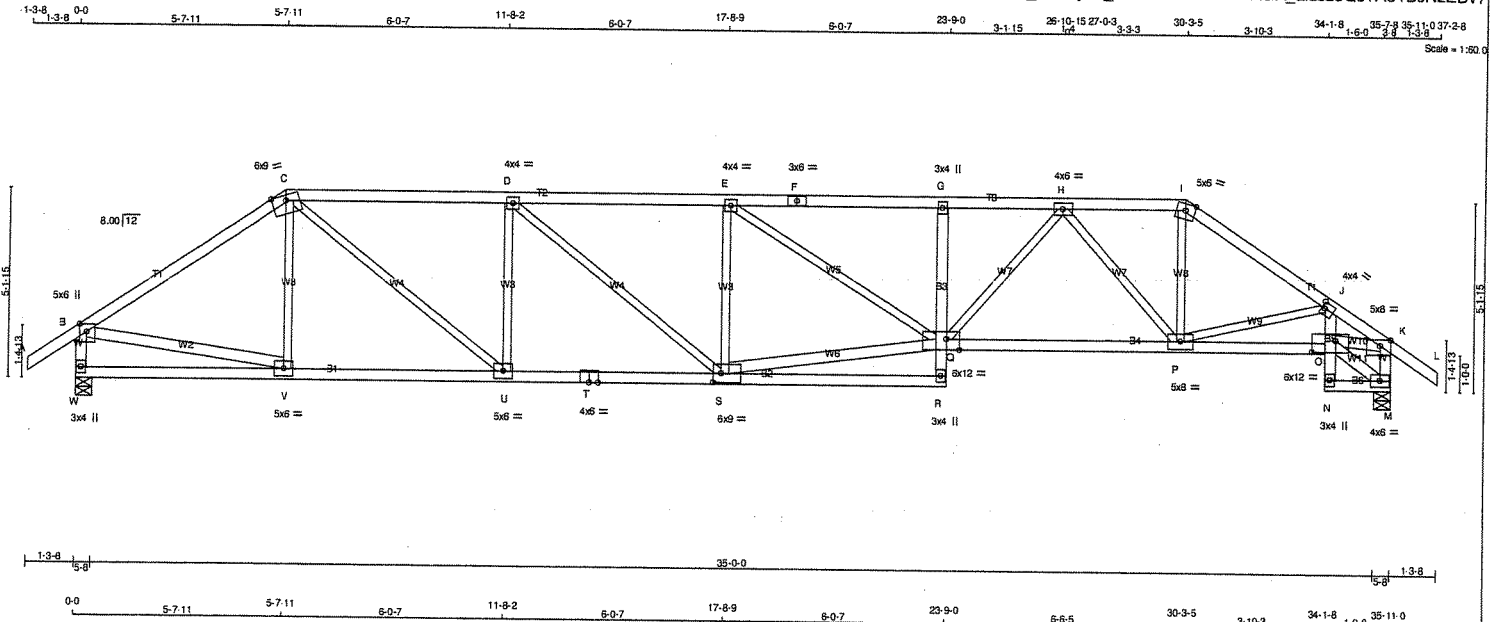
Structural component only
DWG# T-2115307

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:06 2021 Page 1
ID:GA0nz6DLBrd2xE89xtNtRz_BuP-fjUT_LGkvT0bWxxK9YTAGX_alzsz0QJTA5TBJnzEDv7

1-3-8 0-0 5-7-11 5-7-11 11-8-2 17-9-9 6-0-7 5-0-7 23-9-0 25-10-15 27-0-3 3-1-15 3-3-3 3-0-3 3-0-3 34-1-8 35-7-8 35-11-0 37-2-8 1-6-0 2-8 1-3-8

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



LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										TOTAL WEIGHT = 157 lb	
N. L. G. A.	RULES	SIZE	LUMBER	DESCR.	BEARINGS										DESIGN CRITERIA	
A - C	2x4	DRY	No.2	SPF	FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:			
C - F	2x4	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		BRG		BRG		TOP CH. LL = 25.6 PSF			
F - I	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DQWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 6.0 PSF			
I - L	2x4	DRY	No.2	SPF	W	2103	0	2103	0	0	5-8	5-8	BOT CH. LL = 0.0 PSF			
W - B	2x4	DRY	No.2	SPF	M	2108	0	2108	0	0	5-8	5-8	DL = 7.4 PSF			
M - K	2x4	DRY	No.2	SPF	UNFACTORED REACTIONS										TOTAL LOAD = 39.0 PSF	
W - T	2x4	DRY	No.2	SPF	1ST LCASE										SPACING = 24.0 IN. C/C	
T - R	2x4	DRY	No.2	SPF	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
R - G	2x4	DRY	No.2	SPF	W	1485	988 / 0	0 / 0	0 / 0	0 / 0	497 / 0	0 / 0	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015			
Q - O	2x4	DRY	No.2	SPF	M	1489	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0	THIS DESIGN COMPLIES WITH:			
N - J	2x4	DRY	No.2	SPF	BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) W, M										- PART 9 OF CBC 2018 , ABC 2019	
N - M	2x4	DRY	No.2	SPF	BRACING										- PART 9 OF CBC 2012 (2019 AMENDMENT)	
ALL WEBS EXCEPT					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.89 FT.											
S - Q	2x4	DRY	No.2	SPF	MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.											
B - V	2x4	DRY	No.2	SPF	ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.											
O - M	2x4	DRY	No.2	SPF												
O - K	2x4	DRY	No.2	SPF												

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
J	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	5.0	6.0	2.50 2.25
C	TTVW-m	MT20	6.0	9.0	Edge
D	TMVW-t	MT20	4.0	4.0	
E	TMVW-t	MT20	4.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMV+p	MT20	3.0	4.0	
H	TMVW-t	MT20	4.0	6.0	
I	TTW-m	MT20	5.0	6.0	Edge
J	TMVW-t	MT20	4.0	4.0	2.00 1.00
K	TMV-p	MT20	5.0	8.0	Edge 3.50
L	BMVW1-t	MT20	4.0	6.0	
M	BMV+p	MT20	3.0	4.0	
N	BMVW1-t	MT20	6.0	12.0	3.75 7.75
O	BMVW1-t	MT20	5.0	8.0	
P	BMVWVW-t	MT20	6.0	12.0	Edge 4.25
R	BMV+p	MT20	3.0	4.0	
S	BMVW-t	MT20	6.0	9.0	3.00 2.50
T	BS-t	MT20	4.0	6.0	
U	BMVW-t	MT20	5.0	6.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQUIRED BRG		IN-SX	IN-SX
	VERT	HORZ	DQWN	HORZ		5-8	5-8		
W	2103	0	2103	0	0	5-8	5-8		
M	2108	0	2108	0	0	5-8	5-8		

<u>UNFACTORED REACTIONS</u>									
JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM. LIVE		SOIL
	WIND	DEAD	WIND	DEAD	WIND	DEAD	WIND	DEAD	
W	1485	988 / 0	0 / 0	0 / 0	0 / 0	497 / 0	0 / 0	498 / 0	0 / 0
M	1489	990 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 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 = 2.89 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGD. CEILING DIRECTLY APPLIED.

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

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	-243 / 12	0.10 (1)
B-C	-2354 / 0	-91.8	-91.8	0.74 (1)	3.70	C-U	0 / 1701	0.38 (1)
C-D	-3281 / 0	-91.8	-91.8	0.80 (1)	3.16	U-D	-960 / 0	0.38 (1)
D-E	-3701 / 0	-91.8	-91.8	0.87 (1)	2.93	D-S	0 / 545	0.12 (1)
E-F	-4135 / 0	-91.8	-91.8	0.81 (1)	2.89	S-E	-824 / 0	0.32 (1)
F-G	-4135 / 0	-91.8	-91.8	0.81 (1)	2.89	S-Q	0 / 3633	0.58 (1)
G-H	-4169 / 0	-91.8	-91.8	0.48 (1)	3.07	Q-H	0 / 502	0.11 (1)
H-I	-2494 / 0	-91.8	-91.8	0.23 (1)	4.17	E-Q	0 / 1132	0.25 (1)
I-J	-2937 / 0	-91.8	-91.8	0.37 (1)	3.75	H-P	-1478 / 0	0.63 (1)
J-K	-3423 / 0	-91.8	-91.8	0.24 (1)	3.60	P-I	0 / 1312	0.30 (1)
K-L	0 / 35	-91.8	-91.8	0.12 (1)	10.00	P-J	-545 / 0	0.17 (1)
W-B	-2062 / 0	0.0	0.0	0.21 (1)	5.89	B-V	0 / 1990	0.32 (1)
M-K	-2014 / 0	0.0	0.0	0.21 (1)	5.95	C-M	-139 / 0	0.01 (1)
						O-K	0 / 2836	0.46 (1)
W-V	0 / 0	-18.5	-18.5	0.16 (4)	10.00			
V-U	0 / 1951	-18.5	-18.5	0.40 (1)	10.00			
U-T	0 / 3281	-18.5	-18.5	0.60 (1)	10.00			
T-S	0 / 3281	-18.5	-18.5	0.60 (1)	10.00			
S-R	0 / 132	-18.5	-18.5	0.16 (4)	10.00			
R-Q	0 / 50	0.0	0.0	0.19 (1)	10.00			
Q-G	-440 / 0	0.0	0.0	0.20 (1)	7.81			
Q-P	0 / 3435	-18.5	-18.5	0.65 (1)	10.00			
P-O	0 / 2961	-18.5	-18.5	0.56 (1)	10.00			
N-O	0 / 17	0.0	0.0	0.18 (1)	10.00			
O-J	0 / 168	0.0	0.0	0.20 (1)	10.00			
N-M	0 / 114	-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 = 240 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

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

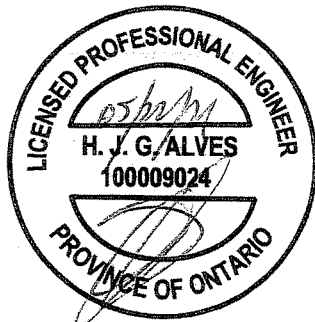
ALLOWABLE DEFL.(LL) = $L/360$ (1.20")
CALCULATED VERT.DEFL.(LL) = $L/999$ (0.25")
ALLOWABLE DEFL.(TL) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(TL) = $L/884$ (0.49")

CSI: TC=0.87/1.0 (D-E:1), BC=0.65/1.0 (P-C:1), WB=0.63/1.0 (H-P:1), SS=0.26/1.0 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF



JOB NAME 410969	TRUSS NAME T32S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:06 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-fjUT LGkvt0bWxxK9YTAGX alzszoQJTA5TBjNzEDv7

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMWV-t	MT20	5.0	6.0		
W	BMW1+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

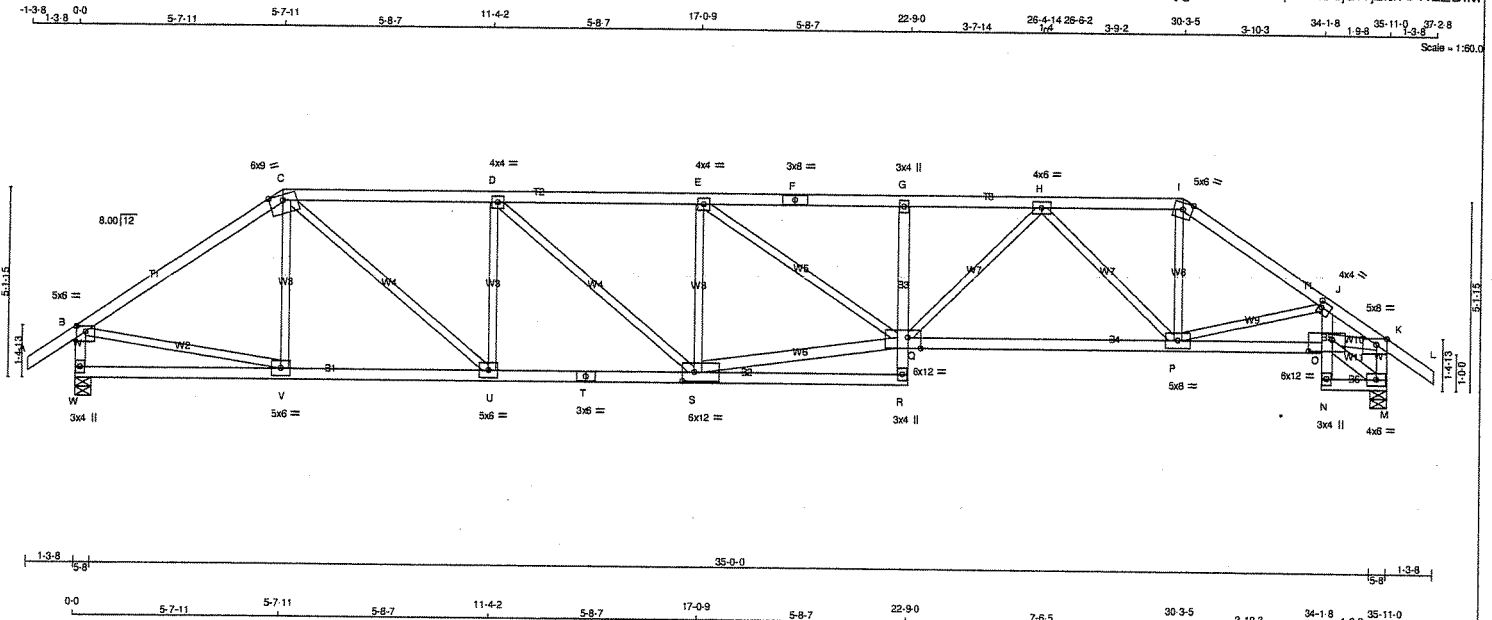


Structural component only
DWG# T-2115308 *21/*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410970	T32S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:21:43 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-EvLKS9DVuyg2UvLWddmtpJEnJiJwJ2itwUWzEdiM



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	1.75	3.00
C TTWW-m	MT20	6.0	9.0	Edge	
D TMVW-t	MT20	4.0	4.0		
E TMVW-t	MT20	4.0	4.0		
F TS-t	MT20	3.0	8.0		
G TMVW-p	MT20	3.0	4.0		
H TMVW-t	MT20	4.0	6.0		
I TTW-m	MT20	5.0	6.0	Edge	
J TMVW-t	MT20	4.0	4.0	2.00	1.00
K TMVW-p	MT20	5.0	8.0	Edge	3.50
M BMVW-t	MT20	4.0	6.0		
N BMVW-p	MT20	3.0	4.0		
O BVWWW-t	MT20	6.0	12.0	3.75	7.75
P BVWWW-t	MT20	5.0	8.0		
Q BVWWW-t	MT20	6.0	12.0	Edge	4.50
R BMVW-p	MT20	3.0	4.0		
S BVWWW-t	MT20	6.0	12.0	3.00	4.00
T BS-t	MT20	3.0	6.0		
U BVWW-t	MT20	5.0	6.0		
V BVWW-t	MT20	5.0	6.0		

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

BEARINGS							
	FACTORED	MAXIMUM FACTORED	INPUT	REQD			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
W	2103	0	2103	0	0	5-8	5-8
M	2108	0	2108	0	0	5-8	5-8
UNFACTORED REACTIONS							
	1ST LOASE	MAX./MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	1485	988 / 0	0 / 0	0 / 0	0 / 0	497 / 0	0 / 0
M	1489	990 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 2.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	V-C	-246 / 8	0.10 (1)
B-C	-2353 / 0	-91.8 -91.8	0.74 (1)	3.71	C-U	0 / 1667	0.38 (1)
C-D	-3224 / 0	-91.8 -91.8	0.69 (1)	3.30	U-D	-981 / 0	0.39 (1)
D-E	-3684 / 0	-91.8 -91.8	0.76 (1)	3.03	D-S	0 / 611	0.14 (1)
E-F	-4278 / 0	-91.8 -91.8	0.74 (1)	2.90	S-E	-919 / 0	0.36 (1)
F-G	-4278 / 0	-91.8 -91.8	0.74 (1)	2.90	S-O	0 / 3625	0.58 (1)
G-H	-4312 / 0	-91.8 -91.8	0.48 (1)	3.05	E-O	0 / 705	0.16 (1)
H-I	-2501 / 0	-91.8 -91.8	0.26 (1)	4.13	Q-H	0 / 1065	0.24 (1)
I-J	-2943 / 0	-91.8 -91.8	0.38 (1)	3.75	H-P	-1543 / 0	0.76 (1)
J-K	-3423 / 0	-91.8 -91.8	0.24 (1)	3.60	P-I	0 / 1303	0.29 (1)
K-L	0 / 35	-91.8 -91.8	0.12 (1)	10.00	P-J	-540 / 0	0.16 (1)
W-B	-2061 / 0	0.0 0.0	0.21 (1)	5.89	B-V	0 / 1989	0.45 (1)
M-K	-2014 / 0	0.0 0.0	0.21 (1)	5.95	C-M	-139 / 0	0.01 (1)
					C-K	0 / 2836	0.46 (1)
W-V	0 / 0	-18.5 -18.5	0.15 (4)	10.00			
V-U	0 / 1950	-18.5 -18.5	0.39 (1)	10.00			
U-T	0 / 3224	-18.5 -18.5	0.58 (1)	10.00			
T-S	0 / 3224	-18.5 -18.5	0.58 (1)	10.00			
S-R	0 / 130	-18.5 -18.5	0.15 (4)	10.00			
R-O	0 / 47	0.0 0.0	0.18 (1)	10.00			
O-G	-428 / 0	0.0 0.0	0.20 (1)	7.81			
O-P	0 / 3565	-18.5 -18.5	0.70 (1)	10.00			
P-O	0 / 2961	-18.5 -18.5	0.59 (1)	10.00			
N-O	0 / 17	0.0 0.0	0.18 (1)	10.00			
O-J	0 / 163	0.0 0.0	0.20 (1)	10.00			
N-M	0 / 114	-18.5 -18.5	0.03 (1)	10.00			

TOTAL WEIGHT = 154 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.26")
ALLOWABLE DEFL.(TL) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(TL) = $L/861$ (0.50")

CSI: TC=0.76/1.00 (D-E:1), BC=0.70/1.00 (P-O:1),
WB=0.76/1.00 (H-P:1), SSI=0.25/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT 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 = 0.89 (T) (INPUT = 0.90)
JSI METAL = 0.99 (T) (INPUT = 1.00)



Structural component only
DWG# T-2115330

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410970	T32S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 17:21:43 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-EvLKSj9DVuyg2UvLWddmtpJEnJiJiuWj2itwUWzEDiM

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	BMV1+p	MT20	3.0	4.0		

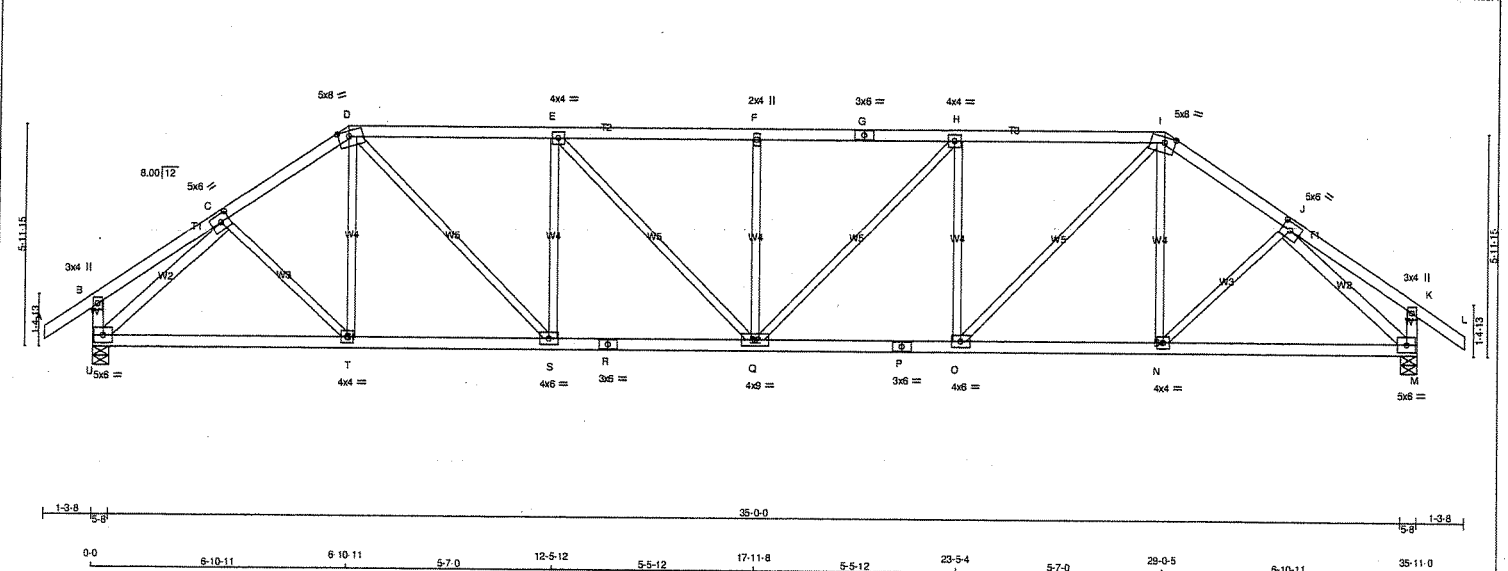
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.



Structural component only
DWG# T-2115330 212

JOB NAME 410969	TRUSS NAME T33	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. Fri May 21 17:08:07 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-7w2rBhMgA8S85WWJf_PpkWoTNEEXsocPkCkrpzEDv6
Scale = 1:59.4



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. TOTAL WEIGHT = 155 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	5.0	6.0	2.50	2.75
D	TTWW-m	MT20	5.0	8.0	1.75	3.50
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	1.75	3.50
J	TMWW-t	MT20	5.0	6.0	2.50	2.75
K	TMV+p	MT20	3.0	4.0		
M	BMVW-t	MT20	5.0	6.0		
N	BMWW-t	MT20	4.0	4.0		
O	BMWW-t	MT20	4.0	6.0		
P	BS-t	MT20	3.0	6.0		
O	BMWWW-t	MT20	4.0	9.0		
R	BS-t	MT20	3.0	6.0		
S	BMWW-t	MT20	4.0	6.0		
T	BMWW-t	MT20	4.0	4.0		
U	BMVW-t	MT20	5.0	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

BUILDING DESIGNER							
<u>BEARINGS</u>							
	FACTORED		MAXIMUM FACTORED		INPUT	REQRD	
	GROSS REACTION		GROSS REACTION		BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
U	2106	0	2106	0	0	5-8	5-8
M	2106	0	2106	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
U	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
M	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.35 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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO								
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	C-T	0 / 161	0.04 (1)
B-C	0 / 18	-91.8	-91.8	0.15 (1)	10.00	T-D	0 / 83	0.03 (4)
C-D	-2370 / 0	-91.8	-91.8	0.23 (1)	4.26	D-S	0 / 1326	0.30 (1)
D-E	-2882 / 0	-91.8	-91.8	0.62 (1)	3.52	S-E	-856 / 0	0.48 (1)
E-F	-3155 / 0	-91.8	-91.8	0.65 (1)	3.35	E-O	0 / 394	0.09 (1)
F-G	-3155 / 0	-91.8	-91.8	0.65 (1)	3.35	O-F	-463 / 0	0.26 (1)
G-H	-3155 / 0	-91.8	-91.8	0.65 (1)	3.35	H-O	0 / 394	0.09 (1)
H-I	-2882 / 0	-91.8	-91.8	0.62 (1)	3.52	O-H	-856 / 0	0.48 (1)
I-J	-2370 / 0	-91.8	-91.8	0.23 (1)	4.26	O-I	0 / 1326	0.30 (1)
J-K	0 / 18	-91.8	-91.8	0.15 (1)	10.00	N-I	0 / 83	0.03 (4)
K-L	0 / 35	-91.8	-91.8	0.12 (1)	10.00	N-J	0 / 161	0.04 (1)
U-B	-251 / 0	0.0	0.0	0.03 (1)	7.81	U-C	-2572 / 0	0.68 (1)
M-K	-251 / 0	0.0	0.0	0.03 (1)	7.81	J-M	-2572 / 0	0.68 (1)
U-T	0 / 1836	-18.5	-18.5	0.40 (1)	10.00			
T-S	0 / 1953	-18.5	-18.5	0.42 (1)	10.00			
S-R	0 / 2882	-18.5	-18.5	0.52 (1)	10.00			
R-Q	0 / 2882	-18.5	-18.5	0.52 (1)	10.00			
Q-P	0 / 2882	-18.5	-18.5	0.52 (1)	10.00			
P-O	0 / 2882	-18.5	-18.5	0.52 (1)	10.00			
O-N	0 / 1953	-18.5	-18.5	0.42 (1)	10.00			
N-M	0 / 1836	-18.5	-18.5	0.40 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 (1.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.31")

CSI: TC=0.65/1.00 (E-F:1), BC=0.52/1.00 (O-S:1), WB=0.68/1.00 (C-U:1), SSI=0.24/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (D) (INPUT = 0.90)
JSI METAL= 0.87 (R) (INPUT = 1.00)

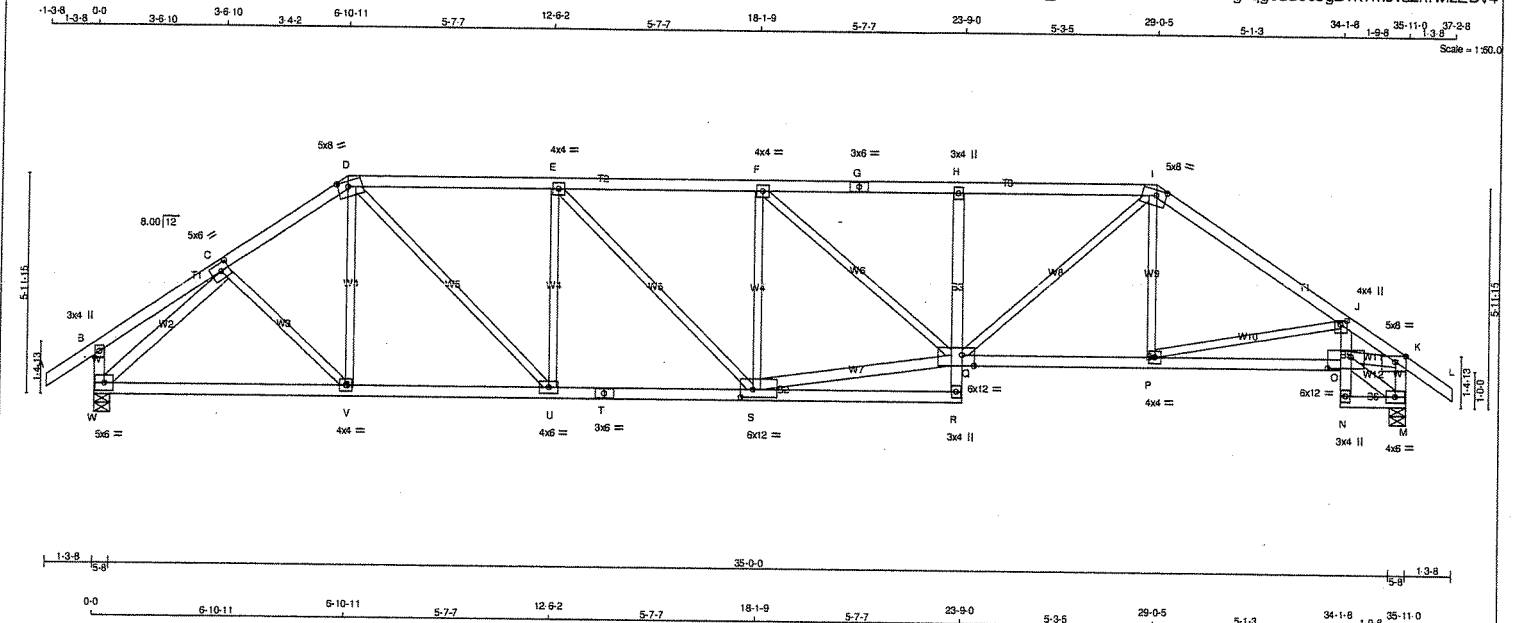


Structural component only
DWG# T-2115309

JOB NAME 410969	TRUSS NAME T33S	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. Fri May 21 17:08:09 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-3IAccNjdBoPAOQvgv0uu9c8gBvk?mJvs2hrwizEDv4



LUMBER N.L.G.A. RULES CHORDS SIZE LUMBER DESCR. TOTAL WEIGHT = 162 lb

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

DRY: SEASONED LUMBER.

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
W	2103	0	2103	0	5-8
M	2108	0	2108	0	5-8

UNFACTORED REACTIONS		1ST LOASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE
W	1485	988 / 0	0 / 0	0 / 0
M	1489	990 / 0	0 / 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 = 3.24 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	W E B S
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MEMB.
	(LBS)	(PLF)	CSI (LC)	FORCE
FR-TO		FROM	TO	LENGTH
A-B	0 / 35	-91.8	-91.8	0.12 (1)
B-C	0 / 18	-91.8	-91.8	0.15 (1)
C-D	-2366 / 0	-91.8	-91.8	0.23 (1)
D-E	-2887 / 0	-91.8	-91.8	0.64 (1)
E-F	-3150 / 0	-91.8	-91.8	0.67 (1)
F-G	-3432 / 0	-91.8	-91.8	0.64 (1)
G-H	-3432 / 0	-91.8	-91.8	0.64 (1)
H-I	-3450 / 0	-91.8	-91.8	0.64 (1)
I-J	-2840 / 0	-91.8	-91.8	0.57 (1)
J-K	-3513 / 0	-91.8	-91.8	0.34 (1)
K-L	0 / 35	-91.8	-91.8	0.12 (1)
L-M	-251 / 0	0.0	0.0	0.03 (1)
M-K	-2012 / 0	0.0	0.0	0.21 (1)
W-V	0 / 1834	-18.5	-18.5	0.41 (1)
V-U	0 / 1951	-18.5	-18.5	0.42 (1)
U-T	0 / 2887	-18.5	-18.5	0.53 (1)
T-S	0 / 2887	-18.5	-18.5	0.53 (1)
S-R	0 / 87	-18.5	-18.5	0.15 (4)
R-Q	0 / 46	0.0	0.0	0.13 (1)
Q-H	-552 / 0	0.0	0.0	0.19 (1)
O-P	0 / 2351	-18.5	-18.5	0.46 (1)
P-O	0 / 3072	-18.5	-18.5	0.58 (1)
N-O	0 / 17	0.0	0.0	0.18 (1)
O-J	0 / 166	0.0	0.0	0.21 (1)
N-M	0 / 117	-18.5	-18.5	0.03 (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

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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.19")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.67/1.00 (E-F:1), BC=0.58/1.00 (O-P:1), WB=0.68/1.00 (C-W:1), SS=0.24/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (I) (INPUT = 0.90)
JSI METAL = 0.87 (T) (INPUT = 1.00)



Structural component only
DWG# T-2115310

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T33S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:09 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-3lAccNjdBoPAOOgvqg0uu9c8qBvk?mjvs2hrwizEDv4

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMWW-t	MT20	4.0	4.0		
W	BMVW1-t	MT20	5.0	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

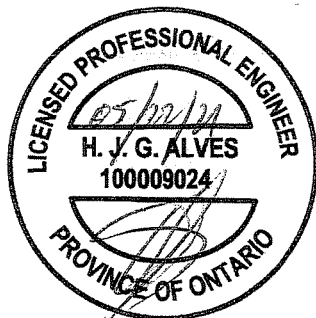


Structural component only
DWG# T-2115310 *mc*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410970	T33S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
W BMVW1-t MT20 5.0 6.0 2.50 2.50
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

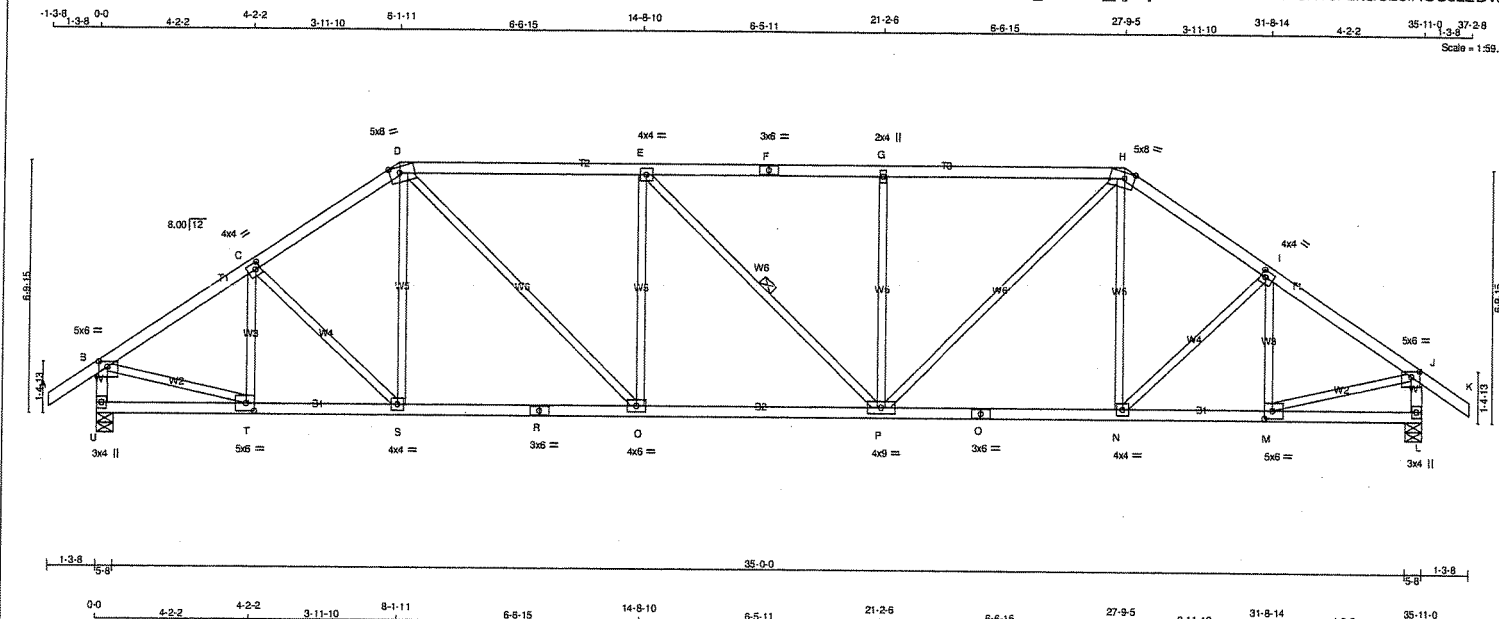


Structural component only
DWG# T-2115331 *sm*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T34	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:10 2021 Page 1
ID:GAonzdDLBrd2xE89xNtRz_BuP-XVl_qjJFy5X1?YF5OOX7RN8H1bFzkGC25iROS8zEdv3



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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.75	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TTWW-m	MT20	5.0	8.0	2.00	3.25
E	TMVW-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	8.0	2.00	3.25
I	TMVW-t	MT20	4.0	4.0	2.00	1.50
J	TMVW-p	MT20	5.0	6.0	1.75	2.75
L	BMV1+p	MT20	3.0	4.0		
M	BMVW-t	MT20	5.0	6.0	2.50	2.50
N	BMVW-t	MT20	4.0	4.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	4.0		
Q	BMVW-t	MT20	4.0	6.0		
R	BS-t	MT20	3.0	6.0		
S	BMVW-t	MT20	4.0	4.0		
T	BMVW-t	MT20	5.0	6.0	2.50	2.50
U	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	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG
U	2106	0	0	2106	0	0	5-8	5-8	
L	2106	0	0	2106	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	1487	989/0	0/0	0/0	0/0	498/0	0/0
L	1487	989/0	0/0	0/0	0/0	498/0	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 = 3.40 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM	TO	UNBRACED LENGTH	FR-TO		
A-B	0/35	-91.8	-91.8	0.12 (1)	10.00	T-C	-435/0
B-C	-2304/0	-91.8	-91.8	0.33 (1)	4.21	C-S	-25/2
C-D	-2333/0	-91.8	-91.8	0.33 (1)	4.18	S-D	0/125
D-E	-2699/0	-91.8	-91.8	0.82 (1)	3.40	D-Q	0/1096
E-F	-2697/0	-91.8	-91.8	0.81 (1)	3.40	O-E	-650/0
F-G	-2697/0	-91.8	-91.8	0.81 (1)	3.40	E-P	-2/0
G-H	-2697/0	-91.8	-91.8	0.81 (1)	3.41	P-G	-650/0
H-I	-2334/0	-91.8	-91.8	0.33 (1)	4.18	P-H	0/1094
I-J	-2304/0	-91.8	-91.8	0.33 (1)	4.21	N-H	0/126
J-K	0/35	-91.8	-91.8	0.12 (1)	10.00	N-I	-24/2
U-B	-2068/0	0.0	0.0	0.21 (1)	5.88	M-I	-436/0
L-J	-2068/0	0.0	0.0	0.21 (1)	5.88	B-T	0/2000
U-T	0/0	-18.5	-18.5	0.07 (4)	10.00	M-J	0/2000
T-S	0/1936	-18.5	-18.5	0.38 (1)	10.00		
S-R	0/1920	-18.5	-18.5	0.39 (1)	10.00		
R-Q	0/1920	-18.5	-18.5	0.39 (1)	10.00		
O-P	0/2699	-18.5	-18.5	0.51 (1)	10.00		
P-O	0/1920	-18.5	-18.5	0.38 (1)	10.00		
O-N	0/1920	-18.5	-18.5	0.38 (1)	10.00		
N-M	0/1936	-18.5	-18.5	0.38 (1)	10.00		
M-L	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

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 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.82/1.00 (D-E:1), BC=0.51/1.00 (P-O:1), WB=0.51/1.00 (E-O:1), SS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 (B) (INPUT = 0.90)

JSI METAL= 0.65 (O) (INPUT = 1.00)

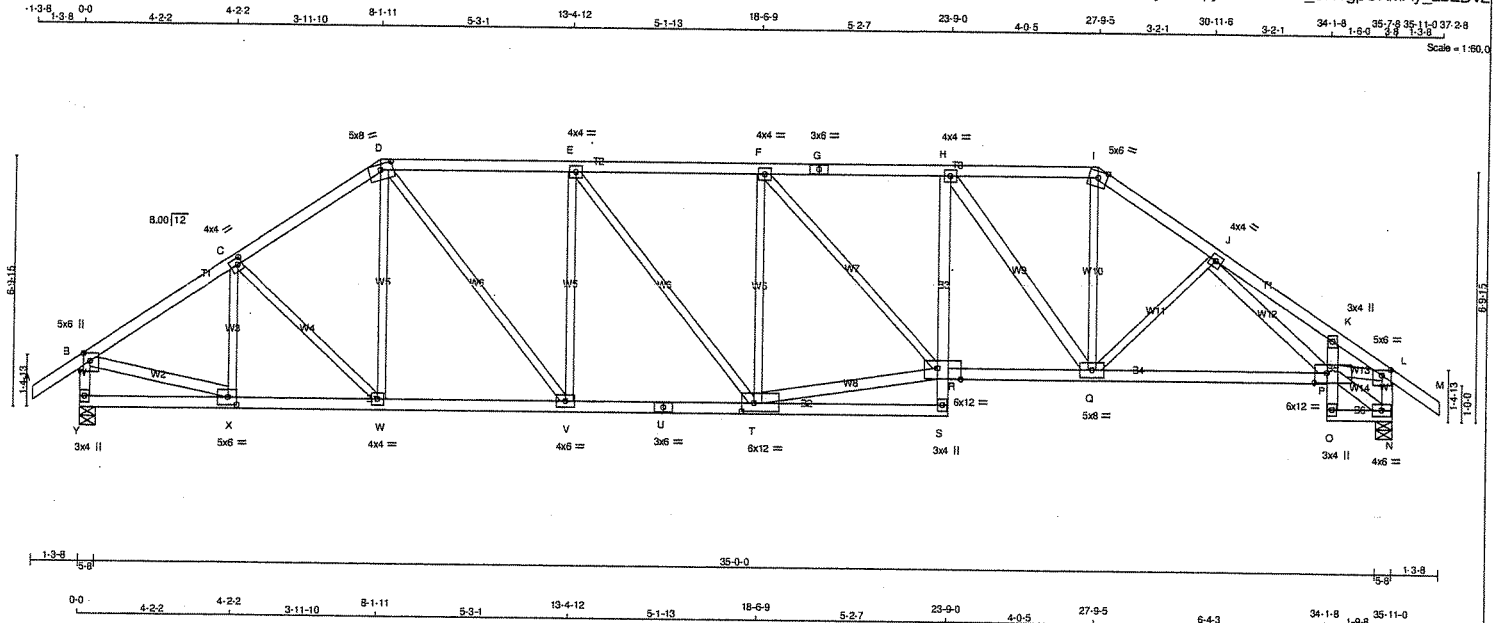


Structural component only
DWG# T-2115311

JOB NAME 410969	TRUSS NAME T34S	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. Fri May 21 17:08:11 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-?hHM13KtjPfudigly53MzahWX_bRTgpCKMAy_azEDv2



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMW+p	MT20	5.0	6.0 2.50 2.25
C	TMW+t	MT20	4.0	4.0 2.00 1.50
D	TTW-m	MT20	5.0	8.0 1.75 4.00
E, F, J				
E	TMW-t	MT20	4.0	4.0
G	TS-t	MT20	3.0	6.0
H	TMW-t	MT20	4.0	4.0
I	TTW-m	MT20	5.0	6.0 Edge
K	TMW+p	MT20	3.0	4.0
L	TMW-p	MT20	5.0	6.0 1.75 3.00
N	BMW-t	MT20	4.0	6.0
O	BMW+p	MT20	3.0	4.0
P	BMW+W-t	MT20	6.0	12.0 3.25 4.00
Q	BMW+W-t	MT20	5.0	8.0
R	BMW+W-t	MT20	6.0	12.0 3.50 7.75
S	BMW+p	MT20	3.0	4.0
T	BMW+W-t	MT20	6.0	12.0 2.75 4.00

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
Y	2103	0	2103	0	0	5-8	5-8	5-8	5-8
N	2108	0	2108	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LOASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
Y	1485	988 / 0	0 / 0	0 / 0	0 / 0	497 / 0	0 / 0		
N	1489	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 35	X-C	-429 / 0
B-C	-2303 / 0	C-W	-31 / 0
C-D	-2327 / 0	W-D	0 / 115
D-E	-2583 / 0	T-F	-637 / 0
E-F	-2742 / 0	T-R	0 / 2743
F-G	-2917 / 0	R-Q	0 / 250
G-H	-2917 / 0	H-Q	-1103 / 0
H-I	-2275 / 0	Q-I	0 / 1238
I-J	-2731 / 0	B-X	0 / 1999
J-K	-3018 / 0	P-N	-117 / 0
K-L	-2993 / 0	P-L	0 / 2456
L-M	0 / 35	E-T	0 / 260
Y-B	-2067 / 0	D-V	0 / 1065
N-L	-2032 / 0	V-E	-738 / 0
		Q-J	-343 / 0
		J-P	0 / 50
Y-X	0 / 0		
X-W	0 / 1936		
W-V	0 / 1915		
V-U	0 / 2583		
U-T	0 / 2583		
T-S	0 / 59		
S-R	0 / 43		
R-H	0 / 430		
R-Q	0 / 2928		
Q-P	0 / 2497		
O-P	0 / 17		
P-K	-144 / 0		
O-N	0 / 100		

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

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) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.15")
ALLOWABLE DEFL.(TL) = $L/360$ (1.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.30")

CSI: TC=0.52/1.00 (E-F:1), BC=0.56/1.00 (Q-R:1), WB=0.68/1.00 (H-Q:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2115312

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T34S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 17:08:11 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-?hHM13KtiPfudigly53MzahWX bRTgpCKMAy azEDv2

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
U	BS-t	MT20	3.0	6.0		
V	BMWW-t	MT20	4.0	6.0		
W	BMWW-t	MT20	4.0	4.0		
X	BMWW-t	MT20	5.0	6.0	2.50	2.75
Y	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



Structural component only
DWG# T-2115312 *me*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410970	T34S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:21:45 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-AHT4IOBT1VCOHo2kd2fEzEOeG7RoBac0V?M1YPzEDiK

PLATES (table is in inches)

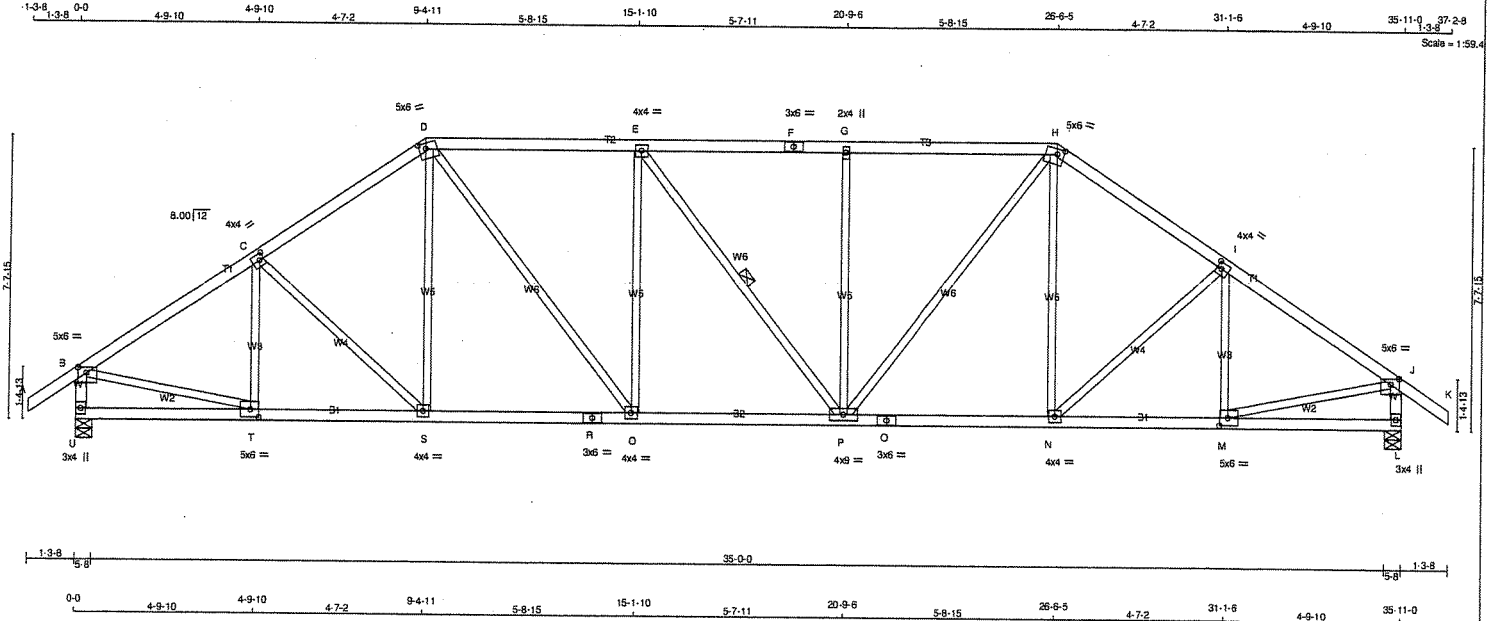
JT	TYPE	PLATES	W	LEN	Y	X
X	BMW-t	MT20	5.0	6.0	2.50	2.75
Y	BMV1+p	MT20	3.0	4.0		



Structural component only
DWG# T-2115332 *yn*

JOB NAME 410969	TRUSS NAME T35	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. Fri May 21 17:08:12 2021 Page 1
ID:GAonz6DLBrd2xE89xNtRz_BuP-TtrkEPLVUjnlFsPuvpabWoDjYOzVC87LY0wVW0zEDv1



LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER			
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - K	2x4	DRY	No.2	SPF	
U - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
U - R	2x4	DRY	No.2	SPF	
R - O	2x4	DRY	No.2	SPF	
O - L	2x4	DRY	No.2	SPF	
ALL WEBS 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	TMVW-t	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	5.0	6.0	1.75 2.25
E	TMVW-t	MT20	4.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMVW-w	MT20	2.0	4.0	
H	TTWW-m	MT20	5.0	6.0	1.75 2.25
I	TMVW-t	MT20	4.0	4.0	2.00 1.50
J	TMVW-p	MT20	5.0	6.0	1.75 2.75
L	BMV1-p	MT20	3.0	4.0	
M	BMVW-t	MT20	5.0	6.0	2.50 2.75
N, Q, S					
N	BMVW-t	MT20	4.0	4.0	
O	BS-t	MT20	3.0	6.0	
P	BMVW-t	MT20	4.0	9.0	
R	BS-t	MT20	3.0	6.0	
T	BMVW-t	MT20	5.0	6.0	2.50 2.75
U	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		REQ'D	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UP/LIFT	IN-SX	IN-SX	
U		2106	0	2106	0	0	5-8	5-8	
L		2106	0	2106	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LOOSE		MAX./MIN. COMPONENT REACTIONS							
JT		COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
U		1497	989 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0	
L		1497	989 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 4.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	T-C	-359 / 0	0.11 (1)
B-C	-2356 / 0	-91.8 -91.8	0.34 (1)	4.18	C-S	-152 / 0	0.11 (1)
C-D	-2280 / 0	-91.8 -91.8	0.33 (1)	4.25	S-D	0 / 203	0.05 (4)
D-E	-2398 / 0	-91.8 -91.8	0.43 (1)	4.03	D-Q	0 / 852	0.19 (1)
E-F	-2397 / 0	-91.8 -91.8	0.40 (1)	4.08	Q-E	-566 / 0	0.61 (1)
F-G	-2397 / 0	-91.8 -91.8	0.40 (1)	4.08	E-P	-2 / 0	0.00 (1)
G-H	-2397 / 0	-91.8 -91.8	0.43 (1)	4.03	P-G	-565 / 0	0.61 (1)
H-I	-2280 / 0	-91.8 -91.8	0.33 (1)	4.25	P-H	0 / 849	0.19 (1)
I-J	-2356 / 0	-91.8 -91.8	0.34 (1)	4.18	N-H	0 / 204	0.05 (4)
J-K	0 / 35	-91.8 -91.8	0.12 (1)	10.00	N-I	-152 / 0	0.11 (1)
U-B	-2066 / 0	0.0 0.0	0.21 (1)	5.89	M-I	-359 / 0	0.11 (1)
L-J	-2066 / 0	0.0 0.0	0.21 (1)	5.89	B-T	0 / 2033	0.46 (1)
U-T	0 / 0	-18.5 -18.5	0.09 (4)	10.00	M-J	0 / 2033	0.46 (1)
T-S	0 / 1983	-18.5 -18.5	0.38 (1)	10.00			
S-R	0 / 1874	-18.5 -18.5	0.36 (1)	10.00			
R-Q	0 / 1874	-18.5 -18.5	0.36 (1)	10.00			
Q-P	0 / 2398	-18.5 -18.5	0.45 (1)	10.00			
P-O	0 / 1874	-18.5 -18.5	0.36 (1)	10.00			
O-N	0 / 1874	-18.5 -18.5	0.36 (1)	10.00			
N-M	0 / 1983	-18.5 -18.5	0.38 (1)	10.00			
M-L	0 / 0	-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/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TC=0.43/1.00 (D-E:1), BC=0.45/1.00 (P-Q:1),
WB=0.61/1.00 (E-Q:1), SS=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

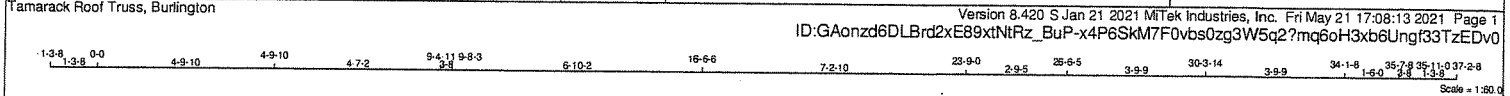
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (T) (INPUT = 0.90)
JSI METAL= 0.55 (O) (INPUT = 1.00)



Structural component only
DWG# T-2115313

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T35S	1	1	TRUSS DESC.		



LUMBER				DESIGN CRITERIA			
N. L. G. A. RULES				TOTAL WEIGHT = 194 lb			
CHORDS	SIZE	LUMBER	DESCR.	SPECIFIED LOADS:			
A - D	2x4	DRY	No.2	TOP CH. LL = 25.6 PSF			
D - F	2x4	DRY	No.2	DL = 6.0 PSF			
F - H	2x4	DRY	No.2	BOT CH. LL = 0.0 PSF			
H - L	2x4	DRY	No.2	DL = 7.4 PSF			
W - B	2x4	DRY	No.2	TOTAL LOAD = 39.0 PSF			
M - K	2x4	DRY	No.2	SPACING = 24.0 IN. C/C			
W - T	2x4	DRY	No.2	LOADING IN FLAT SECTION BASED ON A SLOPE			
T - R	2x4	DRY	No.2	OF 6.00/12			
R - G	2x4	DRY	No.2	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR			
Q - O	2x4	DRY	No.2	SMALL BUILDING REQUIREMENTS OF PART 9,			
N - J	2x4	DRY	No.2	NBCC 2015			
N - M	2x4	DRY	No.2	THIS DESIGN COMPLIES WITH:			
ALL WEBS	2x4	DRY	No.2	- PART 9 OF BCBC 2018, ABC 2019			
DRY: SEASONED LUMBER.				- PART 9 OF OBC 2012 (2019 AMENDMENT)			
				- CSA 086-14			
				- TPIC 2014			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	5.0	6.0 2.50 2.25
C	TMVW-t	MT20	4.0	4.0 2.00 1.00
D	TTWV-m	MT20	5.0	8.0 Edge 5.50
E	TMVW-t	MT20	4.0	4.0
F	TS-t	MT20	3.0	8.0
G	TMVW-t	MT20	4.0	4.0
H	TTWV-m	MT20	5.0	6.0 Edge
I	TMVW-t	MT20	4.0	4.0 2.00 1.75
J	TMV+p	MT20	3.0	4.0
K	TMVW-p	MT20	5.0	8.0 Edge 3.50
M	BMVW1-t	MT20	4.0	6.0
N	BMV+p	MT20	3.0	4.0
O	BVMWVW-t	MT20	6.0	12.0 3.25 4.00
P	BVMWVW-t	MT20	4.0	9.0
Q	BVMWVW-t	MT20	6.0	12.0 3.25 7.75
R	BMV+p	MT20	3.0	4.0
S	BVMWVW-t	MT20	6.0	10.0 3.00 2.00
T	BS-t	MT20	3.0	6.0
U	BMVW-t	MT20	4.0	4.0
V	BMVW-t	MT20	5.0	6.0 2.50 2.75
W	BMV1+p	MT20	3.0	4.0

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
<u>BEARINGS</u>							
	FACTORED		MAXIMUM FACTORED		INPUT	REQRD	
	GROSS REACTION		GROSS REACTION		BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
W	2103	0	2103	0	0	5-8	5-8
M	2108	0	2108	0	0	5-8	5-8
<u>UNFACTORED REACTIONS</u>							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	1485	988 / 0	0 / 0	0 / 0	0 / 0	497 / 0	0 / 0
M	1489	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) W, M							
<u>BRACING</u>							
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.59 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.							

CHORDS				WEBS			
MEMB.		MAX. FACTORED	FACTORED	MEMB.		MAX. FACTORED	MAX.
		FORCE	VERT. LOAD LC1			FORCE	CSI (LC)
		(LBS)	(PLF)			(LBS)	UNBRAC
			CS1 (LC)				LENGTH
FR-TO			FROM TO	FR-TO			
A-B		0 / 35	-91.8 -91.8 0.12 (1)	V-C		-359 / 0	0.08 (1)
B-C		-2354 / 0	-91.8 -91.8 0.34 (1)	C-U		-153 / 0	0.08 (1)
C-D		-2276 / 0	-91.8 -91.8 0.33 (1)	U-D		0 / 209	0.04 (4)
D-E		-2465 / 0	-91.8 -91.8 0.70 (1)	G-P		-909 / 0	0.58 (1)
E-F		-2541 / 0	-91.8 -91.8 0.69 (1)	P-H		0 / 1247	0.20 (1)
F-G		-2541 / 0	-91.8 -91.8 0.69 (1)	I-O		-412 / 0	0.15 (1)
G-H		-2187 / 0	-91.8 -91.8 0.31 (1)	O		0 / 117	0.02 (1)
H-I		-2622 / 0	-91.8 -91.8 0.26 (1)	B-V		0 / 2031	0.33 (1)
I-J		-3035 / 0	-91.8 -91.8 0.29 (1)	O-M		-118 / 0	0.01 (1)
J-K		-3007 / 0	-91.8 -91.8 0.18 (1)	O-K		0 / 2474	0.40 (1)
K-L		0 / 35	-91.8 -91.8 0.12 (1)	D-S		0 / 861	0.14 (1)
W-B		-2064 / 0	0.0 0.0 0.21 (1)	S-E		-814 / 0	0.63 (1)
M-K		-2032 / 0	0.0 0.0 0.21 (1)	S-O		0 / 2440	0.39 (1)
				E-O		0 / 87	0.01 (1)
W-V		0 / 0	-18.5 -18.5 0.09 (4)				
V-U		0 / 1981	-18.5 -18.5 0.38 (1)				
U-T		0 / 1872	-18.5 -18.5 0.43 (1)				
T-S		0 / 1872	-18.5 -18.5 0.43 (1)				
S-R		0 / 60	-18.5 -18.5 0.24 (4)				
R-Q		0 / 59	0.0 0.0 0.09 (1)				
Q-G		0 / 338	0.0 0.0 0.14 (1)				
Q-P		0 / 2550	-18.5 -18.5 0.55 (1)				
P-O		0 / 2463	-18.5 -18.5 0.54 (1)				
N-O		0 / 17	0.0 0.0 0.14 (1)				
O-J		-182 / 0	0.0 0.0 0.11 (1)				
N-M		0 / 100	-18.5 -18.5 0.02 (1)				

ALLOWABLE DEFL.(LL)= L/360 (1.20")			
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.13")			
ALLOWABLE DEFL.(TL)= L/360 (1.20")			
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.31")			
CSI: TC=0.70/1.00 (D-E:1), BC=0.55/1.00 (P-Q:1),			
WB=0.63/1.00 (E-S:1), SS=0.31/1.00 (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)
MT20	650	371	1747 788 1987 1873
PLATE PLACEMENT TOL. = 0.250 inches			
PLATE ROTATION TOL. = 5.0 Deg.			
JSI GRIP = 0.88 (B) (INPUT = 0.90)			
JSI METAL = 0.94 (B) (INPUT = 1.00)			



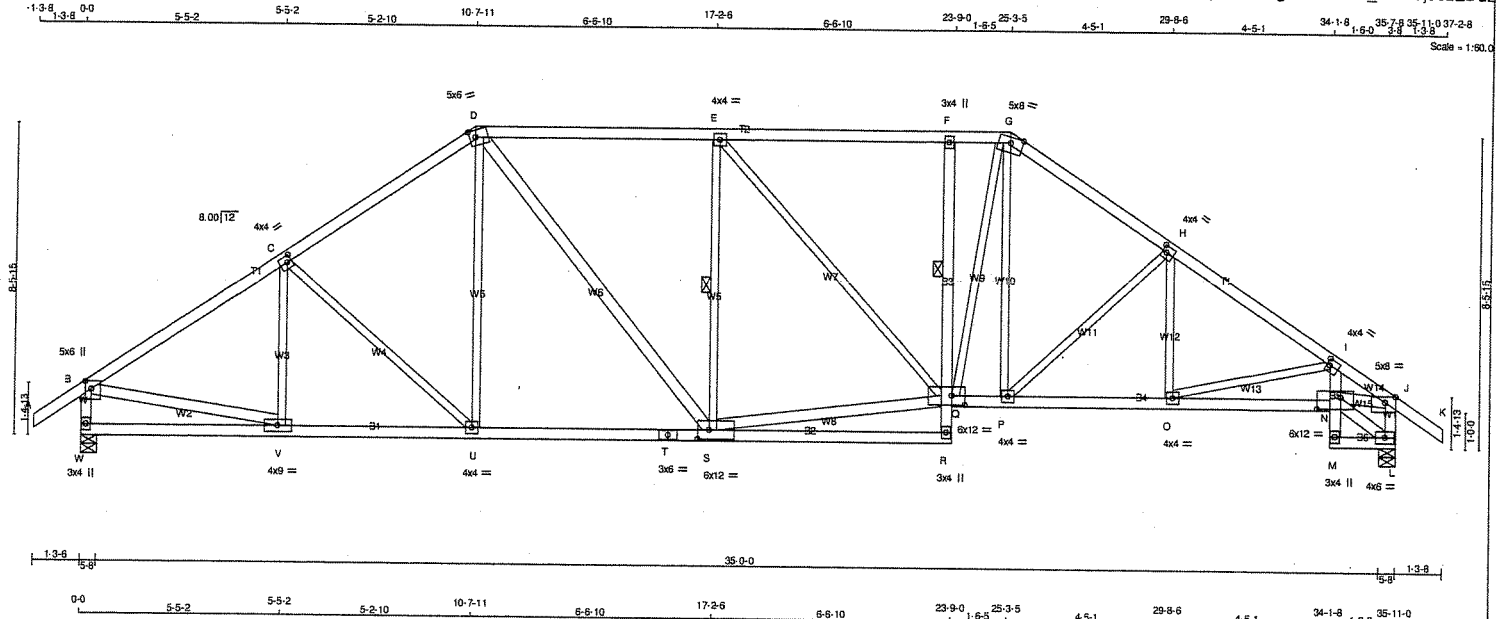
Structural component only
DWG# T-2115314

Structural component only
DWG# T-2115315

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T36S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:16 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-Me5F4m00YxHAjTfKeeXgeONX?IC8_bxTeujeozEDuz



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - K	2x4	DRY	No.2
W - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
W - T	2x4	DRY	No.2
T - R	2x4	DRY	No.2
R - F	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
M - I	2x4	DRY	No.2
M - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
D - S	2x4	DRY	No.2
S - O	2x4	DRY	No.2
B - V	2x4	DRY	No.2
N - L	2x4	DRY	No.2
N - J	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW+p	MT20	5.0	6.0	2.50	2.00
C TMW-t	MT20	4.0	4.0	2.00	1.50
D TTW-m	MT20	5.0	6.0	2.25	2.00
E TMW-t	MT20	4.0	4.0		
F TMW+p	MT20	3.0	4.0		
G TTW-m	MT20	5.0	8.0	Edge	
H TMW-t	MT20	4.0	4.0	2.00	1.50
I TMW-t	MT20	4.0	4.0	2.00	1.00
J TMW-p	MT20	5.0	8.0	Edge	3.50
L BMW-t	MT20	4.0	6.0		
M BMW+p	MT20	3.0	4.0		
N BVMW-t	MT20	6.0	12.0	3.75	7.75
O, P, U					
O BMW-t	MT20	4.0	4.0		
O BVMW-t	MT20	6.0	12.0	3.00	4.25
R BMW+p	MT20	3.0	4.0		
S BVMW-t	MT20	6.0	12.0	3.00	3.75
T BS-t	MT20	3.0	6.0		
V BMW-t	MT20	4.0	9.0		

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
W	2103	0	2103	0
L	2108	0	2108	0

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
W	1485	988 / 0	0 / 0	0 / 0	0 / 0	497 / 0	0 / 0
L	1489	990 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.66 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (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)	V-C	-296 / 0	0.11 (1)	
B-C	-2387 / 0	-91.8 -91.8	0.44 (1)	C-U	-270 / 0	0.26 (1)	
C-D	-2211 / 0	-91.8 -91.8	0.41 (1)	U-D	0 / 283	0.06 (1)	
D-E	-2215 / 0	-91.8 -91.8	0.56 (1)	D-S	0 / 648	0.10 (1)	
E-F	-2236 / 0	-91.8 -91.8	0.54 (1)	S-E	-707 / 0	0.33 (1)	
F-G	-2241 / 0	-91.8 -91.8	0.24 (1)	S-O	0 / 2203	0.35 (1)	
G-H	-2497 / 0	-91.8 -91.8	0.31 (1)	E-Q	0 / 19	0.00 (1)	
H-I	-2918 / 0	-91.8 -91.8	0.35 (1)	Q-G	0 / 808	0.18 (1)	
I-J	-3408 / 0	-91.8 -91.8	0.21 (1)	P-G	0 / 447	0.10 (1)	
J-K	0 / 35	-91.8 -91.8	0.12 (1)	P-H	-541 / 0	0.37 (1)	
W-B	-2060 / 0	0.0 0.0	0.21 (1)	O-H	0 / 122	0.04 (4)	
L-J	-2014 / 0	0.0 0.0	0.21 (1)	O-I	-507 / 0	0.19 (1)	
				B-V	0 / 2052	0.33 (1)	
W-V	0 / 0	-18.5 -18.5	0.12 (4)	N-L	-138 / 0	0.01 (1)	
V-U	0 / 2012	-18.5 -18.5	0.39 (1)	N-J	0 / 2816	0.45 (1)	
U-T	0 / 1814	-18.5 -18.5	0.40 (1)				
T-S	0 / 1814	-18.5 -18.5	0.40 (1)				
S-R	0 / 46	-18.5 -18.5	0.20 (4)				
R-Q	0 / 53	0.0 0.0	0.07 (1)				
O-F	-424 / 0	0.0 0.0	0.07 (1)				
Q-P	0 / 2059	-18.5 -18.5	0.37 (1)				
P-O	0 / 2448	-18.5 -18.5	0.44 (1)				
O-N	0 / 2940	-18.5 -18.5	0.52 (1)				
M-N	0 / 17	0.0 0.0	0.18 (1)				
N-I	0 / 173	0.0 0.0	0.20 (1)				
M-L	0 / 114	-18.5 -18.5	0.03 (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 CBC 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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.58/1.00 (D-E:1), BC=0.52/1.00 (N-O:1), WB=0.45/1.00 (J-N:1), SSI=0.29/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.89 (G) (INPUT = 0.90)

JSI METAL= 0.56 (T) (INPUT = 1.00)



Structural component only
DWG# T-2115316

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T36S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:16 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-Me5F4mO0YxHAjTiFkeeXqeONX?IC8_bxTeujeozEDuz

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
W 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

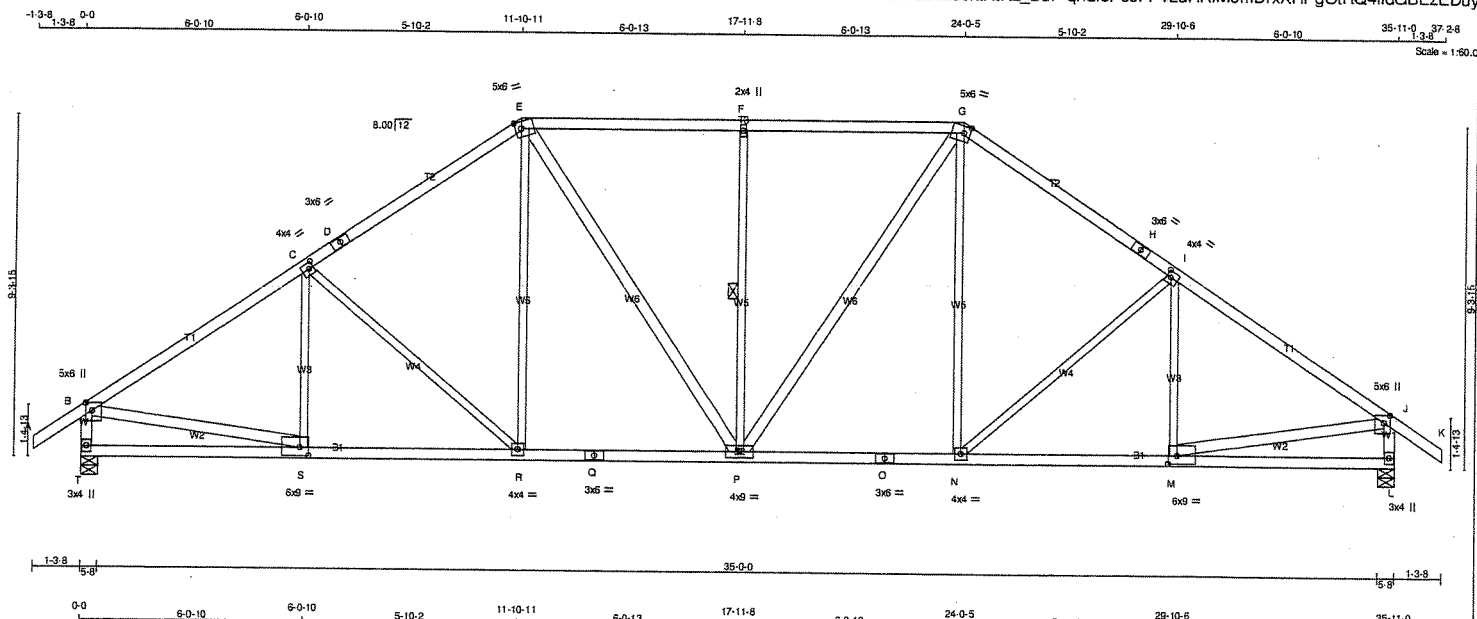


Structural component only
DWG# T-2115316 *MA*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T37	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri May 21 17:08:17 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-qrd16PeJFP1LdHRIM9mDrXHPgOtRQ4ildGBeZEDuy



LUMBER	N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4 DRY	No.2	SPF		
D - E	2x4 DRY	No.2	SPF		
E - G	2x4 DRY	No.2	SPF		
G - H	2x4 DRY	No.2	SPF		
H - K	2x4 DRY	No.2	SPF		
T - B	2x4 DRY	No.2	SPF		
L - J	2x4 DRY	No.2	SPF		
T - O	2x4 DRY	No.2	SPF		
Q - O	2x4 DRY	No.2	SPF		
O - L	2x4 DRY	No.2	SPF		
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF		
E - P	2x4 DRY	No.2	SPF		
P - G	2x4 DRY	No.2	SPF		
B - S	2x4 DRY	No.2	SPF		
M - J	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	2.50	2.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	6.0	2.25	2.00
H	TS-t	MT20	3.0	6.0		
I	TMVW-t	MT20	4.0	4.0	2.00	1.50
J	TMVW+p	MT20	5.0	6.0	2.50	2.00
L	BMV1+p	MT20	3.0	4.0		
M	BMVW-t	MT20	6.0	9.0	2.75	3.00
N	BMVW-t	MT20	4.0	4.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	9.0		
O	BS-t	MT20	3.0	6.0		
R	BMVW-t	MT20	4.0	4.0		
S	BMVW-t	MT20	6.0	9.0	2.75	3.00
T	BMV1+p	MT20	3.0	4.0		

NOTES: (1)

1)

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

BEARINGS	FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	IN-SX	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
T	2106	0	2106	0	5-8	5-8	5-8	
L	2106	0	2106	0	5-8	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
T	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
L	1487	989 / 0	0 / 0	0 / 0	0 / 0	498 / 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 = 3.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH
FR-TO		FROM TO	CSI (LC)	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	S-C	-243 / 16	0.11 (1)
B-C	-2410 / 0	-91.8	-91.8 0.56 (1)	3.89	C-R	-379 / 0	0.48 (1)
C-D	-2140 / 0	-91.8	-91.8 0.52 (1)	4.13	R-E	0 / 357	0.08 (1)
D-E	-2140 / 0	-91.8	-91.8 0.52 (1)	4.13	E-P	0 / 477	0.08 (1)
E-F	-2018 / 0	-91.8	-91.8 0.50 (1)	4.22	P-F	-682 / 0	0.39 (1)
F-G	-2018 / 0	-91.8	-91.8 0.50 (1)	4.22	P-G	0 / 477	0.08 (1)
G-H	-2140 / 0	-91.8	-91.8 0.52 (1)	4.13	N-G	0 / 357	0.08 (1)
H-I	-2140 / 0	-91.8	-91.8 0.52 (1)	4.13	N-I	-379 / 0	0.48 (1)
I-J	-2410 / 0	-91.8	-91.8 0.56 (1)	3.89	M-I	-243 / 16	0.11 (1)
J-K	0 / 35	-91.8	-91.8 0.12 (1)	10.00	B-S	0 / 2067	0.33 (1)
T-B	-2059 / 0	0.0	0.0 0.21 (1)	5.89	M-J	0 / 2067	0.33 (1)
L-J	-2059 / 0	0.0	0.0 0.21 (1)	5.89			
T-S	0 / 0	-18.5	-18.5 0.15 (4)	10.00			
S-R	0 / 2035	-18.5	-18.5 0.40 (1)	10.00			
R-Q	0 / 1752	-18.5	-18.5 0.35 (1)	10.00			
O-P	0 / 1752	-18.5	-18.5 0.35 (1)	10.00			
P-O	0 / 1752	-18.5	-18.5 0.35 (1)	10.00			
O-N	0 / 1752	-18.5	-18.5 0.35 (1)	10.00			
N-M	0 / 2035	-18.5	-18.5 0.40 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.15 (4)	10.00			

TOTAL WEIGHT = 2 X 172 = 344 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

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) = U / 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = U / 999 (0.19")

CSI: TC=0.56/1.00 (B-C:1), BC=0.40/1.00 (R-S:1), WB=0.48/1.00 (C-R:1), SSI=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

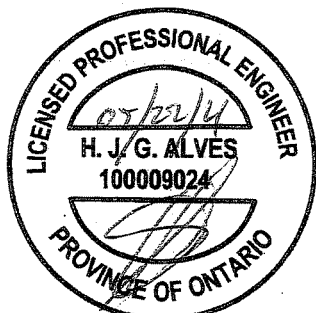
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.55 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2115317

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T38	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:20 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-EQKmw8RWcAncC500zUjTrUZ2ccct4k4WOGswNzZEDuv

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	2.50	3.75
C	TTWW+m	MT20	7.0	8.0	3.75	1.50
D	TTW+m	MT20	5.0	8.0		
E	TTWW+m	MT20	7.0	8.0		
F	TMVW-t	MT20	5.0	6.0		
G	TS-t	MT20	5.0	6.0		
H	TMVW-t	MT20	5.0	6.0	2.50	2.75
I	TTWW-m	MT20	7.0	12.0	2.75	4.00
J	TMVW-p	MT20	5.0	6.0	1.50	3.00
L	BMV1+p	MT20	3.0	6.0		
M	BMVW-t	MT20	5.0	6.0	2.50	2.50
N	BMVW-t	MT20	5.0	8.0	2.50	3.25
O	BMVW-t	MT20	5.0	6.0	2.50	2.75
P	BS-t	MIH6	5.0	12.5		
O	BMVW-t	MT20	5.0	6.0		
R	BMVWW-t	MT20	7.0	12.0	4.25	3.25
S	BS-t	MT20	5.0	6.0		
T	BMVW-t	MT20	5.0	6.0	2.50	2.50
U	BMV1+p	MT20	3.0	6.0		

NOTES (1)

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

SPECIFIED CONCENTRATED LOADS (LBS)

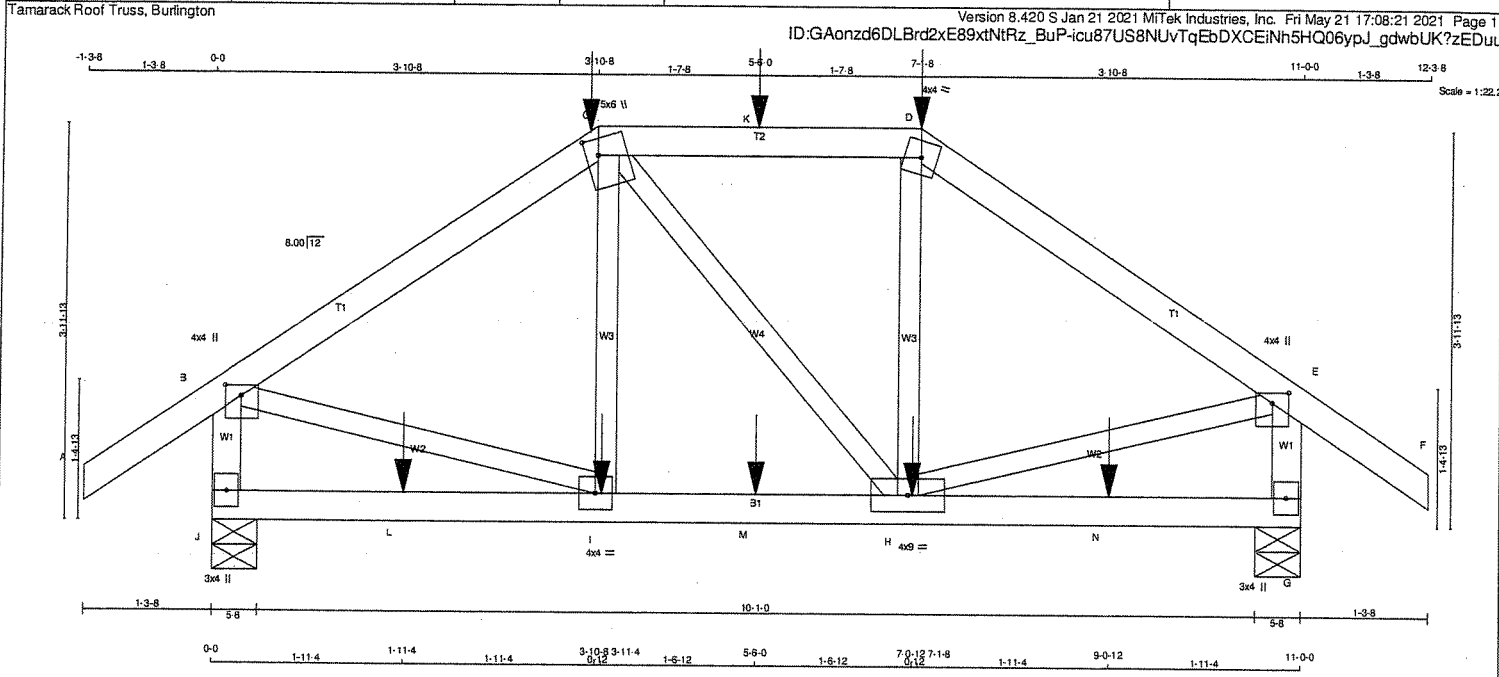
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
P	19-8-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
R	11-11-8	-1493	-1493	---	BACK	VERT	TOTAL	---	C1
V	19-8-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
W	20-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
X	22-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
Y	24-1-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
Z	12-8-4	-36	-36	---	BACK	VERT	TOTAL	---	C1
AA	14-8-4	-36	-36	---	BACK	VERT	TOTAL	---	C1
AB	16-8-4	-37	-37	---	BACK	VERT	TOTAL	---	C1
AC	18-10-8	-450	-450	---	BACK	VERT	TOTAL	---	C1
AD	20-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AE	22-9-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AF	24-1-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AG	24-9-8	-772	-772	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2115318 2/22



TOTAL WEIGHT = 48 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED
A - C	2x4	DRY	No.2	SPF	FACTORED	GROSS REACTION	MAXIMUM FACTORED
C - D	2x4	DRY	No.2	SPF	VERT	HORZ	DOWN
D - F	2x4	DRY	No.2	SPF	JT	1028	0
J - B	2x4	DRY	No.2	SPF	G	1028	0
G - E	2x4	DRY	No.2	SPF			
J - G	2x4	DRY	No.2	SPF			

ALL WEBS EXCEPT				UNFACTORED REACTIONS			
2x3	DRY	No.2	SPF	1ST CASE	MAX/MIN	COMPONENT REACTIONS	
				JT	COMBINED	SNOW	LIVE
				J	725	488 / 0	0 / 0
				G	724	488 / 0	0 / 0

DRY: SEASONED LUMBER.

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

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	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	4.0	1.25	2.00
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		

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.15 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (PLF)	

FR-TO	FROM	TO	CS1 (LC)	UNBRAC LENGTH	FR-TO	FROM	TO	CS1 (LC)	UNBRAC LENGTH
A-B	0/35	-91.8	-91.8	0.14 (1)	10.00	I-C	-92/51	0.02 (1)	10.00
B-C	-875/0	-91.8	-91.8	0.28 (1)	6.15	C-H	0/2	0.00 (4)	10.00
C-K	-725/0	-91.8	-91.8	0.30 (1)	6.25	H-D	-90/53	0.02 (1)	10.00
K-D	-725/0	-91.8	-91.8	0.30 (1)	6.25	B-I	0/753	0.19 (1)	10.00
D-E	-878/0	-91.8	-91.8	0.28 (1)	6.15	H-E	0/755	0.19 (1)	10.00
E-F	0/35	-91.8	-91.8	0.14 (1)	10.00				
J-B	-989/0	0.0	0.0	0.11 (1)	7.81				
G-E	-988/0	0.0	0.0	0.11 (1)	7.81				

J-L				L-I			
0/0	-18.5	-18.5	0.10 (4)	10.00	0/0	-18.5	-18.5

I-M				M-H			
0/725	-18.5	-18.5	0.17 (1)	10.00	0/725	-18.5	-18.5

H-N				N-G			
0/0	-18.5	-18.5	0.10 (4)	10.00	0/0	-18.5	-18.5

SPECIFIED CONCENTRATED LOADS (LBS)				FACE			
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
D	3-10-8	-145	-145	---	FRONT	VERT	TOTAL
H	7-10-12	-14	-14	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA				NAIL VALUES			
SPECIFIED LOADS:	TOP CH.	LL	= 25.6 PSF	PLATE GRIP(DRY)	SHEAR	SECTION	
		DL	= 6.0 PSF	(PSI)	(PLI)	(PLI)	
	BOT CH.	LL	= 0.0 PSF	MAX MIN	MAX MIN	MAX MIN	
		DL	= 7.4 PSF	MT20	650	371	1747

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 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 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.30/1.00 (C-D:1), BC=0.17/1.00 (H-I:1), WB=0.19/1.00 (E-H:1), SS=0.16/1.00 (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)
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.

JS1 GRIP = 0.85 (I) (INPUT = 0.90)
JS1 METAL = 0.25 (I) (INPUT = 1.00)

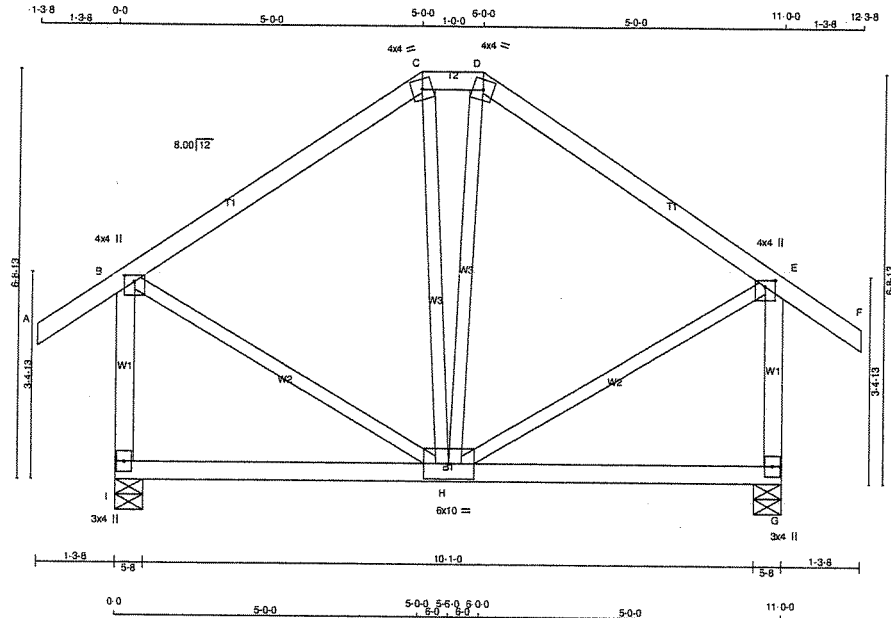


Structural component only
DWG# T-2115319

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T40	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri May 21 17:08:22 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-BoSWLpTn8n1KROAP5vixwveSCQSIYn2psaL1sRzEDut



TOTAL WEIGHT = 58 lb
(M/F)

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
I - B	2x4	DRY	No.2
G - E	2x4	DRY	No.2
I - G	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTW-m	MT20	4.0	4.0		
D	TTW-m	MT20	4.0	4.0		
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMVWWV-I	MT20	6.0	10.0		
I	BMV1+p	MT20	3.0	4.0		

NOTES-

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
I	732	0	732	0	5-8	5-8
G	732	0	732	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE MAX/MIN. COMPONENT REACTIONS		LIVE	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW					
I	516	352 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0
G	516	352 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		VERT. LOAD	LC1	MAX	MAX. UNBRAC	MEMB.	WEBS		VERT. LOAD	LC1	MAX	MAX. UNBRAC
	MAX. FACTORED	FORCE (LBS)						MAX. FACTORED	FORCE (LBS)				
FR-TO							FR-TO						
A-B	0 / 35		-91.8	-91.8	0.12 (1)	10.00	B-H	0 / 315		0.07 (1)			
B-C	-331 / 0		-91.8	-91.8	0.29 (1)	6.25	H-E	0 / 315		0.07 (1)			
C-D	-268 / 0		-91.8	-91.8	0.01 (1)	6.25	C-H	-91 / 16		0.07 (1)			
D-E	-331 / 0		-91.8	-91.8	0.29 (1)	6.25	H-D	-91 / 16		0.07 (1)			
E-F	0 / 35		-91.8	-91.8	0.12 (1)	10.00							
I-B	-693 / 0		0.0	0.0	0.14 (1)	7.81							
G-E	-693 / 0		0.0	0.0	0.14 (1)	7.81							
I-H	0 / 0		-18.5	-18.5	0.16 (4)	10.00							
H-G	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

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 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.29/1.00 (B-C:1), BC=0.16/1.00 (G-H:4),
WB=0.07/1.00 (E-H: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 = 0.46 (B) (INPUT = 0.90)
JSI METAL = 0.14 (B) (INPUT = 1.00)

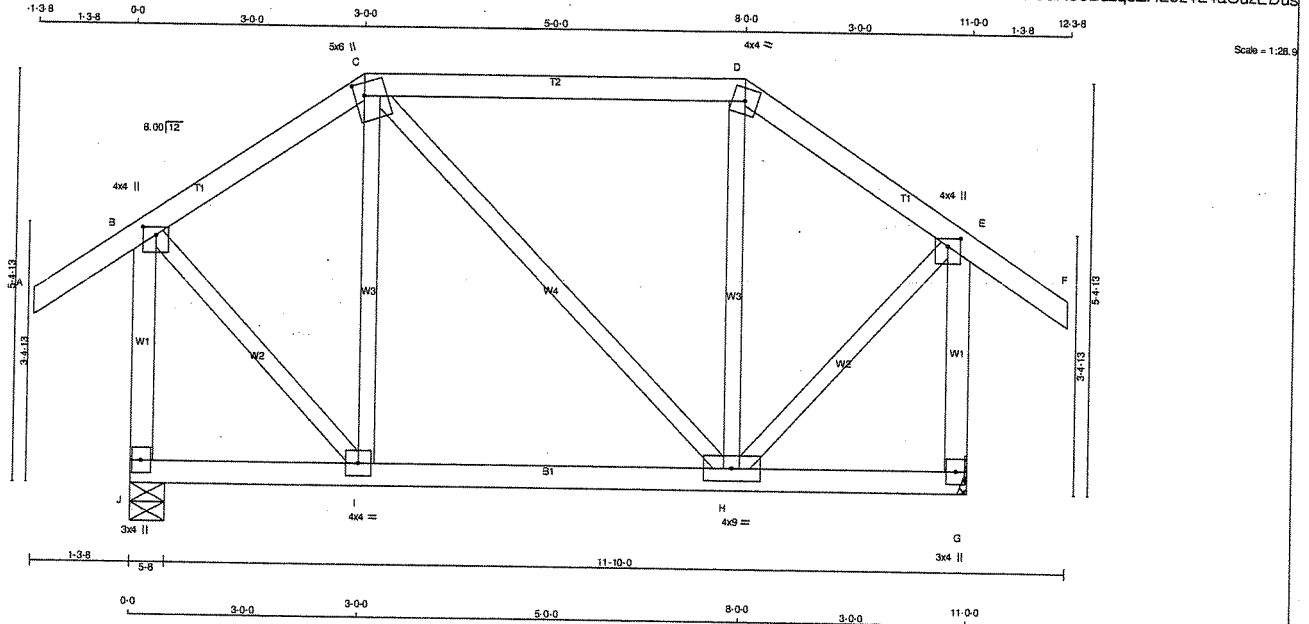


Structural component only
DWG# T-2115320

JOB NAME 410969	TRUSS NAME T41	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	--------------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:23 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-f?0uY9TPu59B3YkbfGAS6BdzqoZHE3z4E4aOuzEDus



TOTAL WEIGHT = 57 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		
D - F	2x4 DRY	No.2	SPF		
J - B	2x4 DRY	No.2	SPF		
G - E	2x4 DRY	No.2	SPF		
J - G	2x4 DRY	No.2	SPF		

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTWVW+m	MT20	5.0	6.0	2.00	1.50
D	TTWV-m	MT20	4.0	4.0		
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
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		

NOTES (1)

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

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

	FACTORED		MAXIMUM FACTORED			INPUT	REQD
JT	GROSS REACTION		GROSS REACTION			BRG	BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
J	732	0	732	0	0	5-8	5-8
G	732	0	732	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED					
J	516	352/0	0/0	0/0	0/0	0/0
G	516	352/0	0/0	0/0	0/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 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 LC1 (PLF)	MAX. UNBRACED 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	I-C	-185 / 0	0.08 (1)
B-C	-325 / 0	-91.8 -91.8 0.11 (1)	6.25	C-H	0 / 0	0.00 (1)
C-D	-266 / 0	-91.8 -91.8 0.29 (1)	6.25	H-D	-186 / 0	0.08 (1)
D-E	-325 / 0	-91.8 -91.8 0.11 (1)	6.25	B-I	0 / 380	0.09 (1)
E-F	0 / 35	-91.8 -91.8 0.12 (1)	10.00	H-E	0 / 380	0.09 (1)
J-B	-713 / 0	0.0 0.0 0.14 (1)	7.81			
G-E	-712 / 0	0.0 0.0 0.14 (1)	7.81			
J-I	0 / 0	-18.5 -18.5 0.07 (4)	10.00			
I-H	0 / 266	-18.5 -18.5 0.09 (4)	10.00			
H-G	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

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 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.29/1.00 (C-D:1), BC=0.09/1.00 (H-I:4), WB=0.09/1.00 (B-I:1), SS=0.18/1.00 (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= 0.47 (B) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)

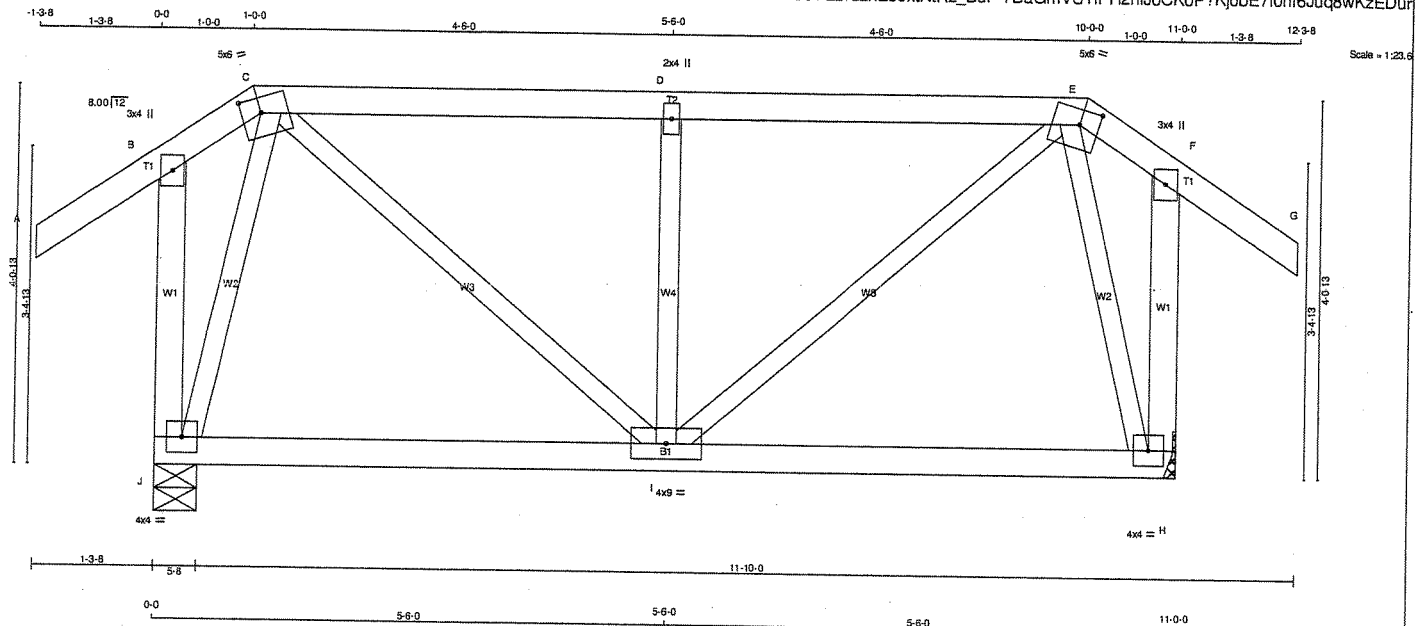


Structural component only
DWG# T-2115321

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T42	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Fri May 21 17:08:24 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNIRz_BuP-7BaGmVU1fPH2hiJoCKoP?KjobE7f0hf6Juq8wKzEDur



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	
J - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.00	2.50
D	TMV+w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.00	2.50
F	TMV+p	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	4.0		
I	BMVWW-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	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
J	732	0	732	0
H	732	0	732	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	516	352 / 0	0 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0
H	516	352 / 0	0 / 0	0 / 0	0 / 0	0 / 0	164 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	VERT. LOAD	LC1	MAX	MAX	UNBRAC	FR-TO	MEMB.	MAX. FACTORED	VERT. LOAD	LC1	MAX	MAX	UNBRAC	FR-TO
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	10.00	10.00	10.00	I-D	-506 / 0	0.13 (1)	0.13 (1)	0.13 (1)	0.13 (1)	0.13 (1)	0.13 (1)
B-C	-46 / 0	-91.8	-91.8	0.12 (1)	6.25	6.25	6.25	6.25	J-C	-452 / 0	0.12 (1)	0.12 (1)	0.12 (1)	0.12 (1)	0.12 (1)	0.12 (1)
C-D	-492 / 0	-91.8	-91.8	0.30 (1)	6.25	6.25	6.25	6.25	E-H	-452 / 0	0.12 (1)	0.12 (1)	0.12 (1)	0.12 (1)	0.12 (1)	0.12 (1)
D-E	-492 / 0	-91.8	-91.8	0.30 (1)	6.25	6.25	6.25	6.25	C-I	0 / 487	0.11 (1)	0.11 (1)	0.11 (1)	0.11 (1)	0.11 (1)	0.11 (1)
E-F	-46 / 0	-91.8	-91.8	0.12 (1)	6.25	6.25	6.25	6.25	I-E	0 / 487	0.11 (1)	0.11 (1)	0.11 (1)	0.11 (1)	0.11 (1)	0.11 (1)
F-G	0 / 35	-91.8	-91.8	0.12 (1)	10.00	10.00	10.00	10.00								
J-B	-257 / 0	0.0	0.0	0.05 (1)	7.81	7.81	7.81	7.81								
H-F	-257 / 0	0.0	0.0	0.05 (1)	7.81	7.81	7.81	7.81								
J-I	0 / 121	-18.5	-18.5	0.17 (4)	10.00	10.00	10.00	10.00								
I-H	0 / 121	-18.5	-18.5	0.17 (4)	10.00	10.00	10.00	10.00								

TOTAL WEIGHT = 54 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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 (0.37")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.30/1.00 (C-D:1), BC=0.17/1.00 (I-J:4),
WB=0.13/1.00 (D-I:1), SS=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.74 (E) (INPUT = 0.90)

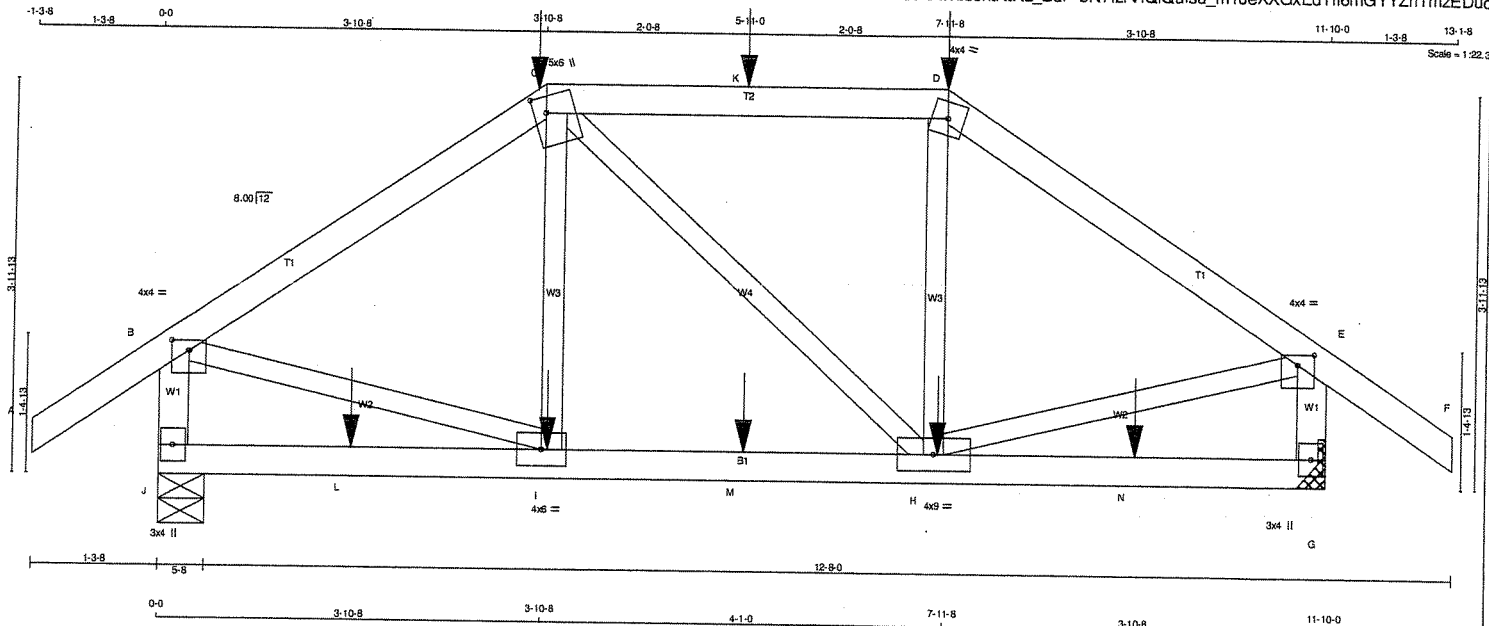
JSI METAL= 0.13 (E) (INPUT = 1.00)



Structural component only
DWG# T-2115322

JOB NAME 410969	TRUSS NAME T43	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:25 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-bN7fzrVfQIQuIsu_m1JeXXGxEtTf6mGYYZhTmzEDUC



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

DRY: SEASONED LUMBER

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	4.0	4.0	1.25	2.00
C	TTWW+m	MT20	5.0	6.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMWV-p	MT20	4.0	4.0	1.25	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMVWW-t	MT20	4.0	9.0		
I	BMVWW-t	MT20	4.0	6.0		
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		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
J	1074	0	1074	0	0	5-8	5-8		
G	1073	0	1073	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	757	510/0	0/0	0/0	0/0	247/0	0/0
G	757	510/0	0/0	0/0	0/0	247/0	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 = 5.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. MAX. (LC)	MEMB.	FORCE (LBS)	MAX. MAX. (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0/35	-91.8	-91.8 0.14 (1)	I-C	-97/56	0.03 (1)	
B-C	-936/0	-91.8	-91.8 0.28 (1)	C-H	0/2	0.00 (4)	
C-K	-776/0	-91.8	-91.8 0.44 (1)	H-D	-94/58	0.02 (1)	
K-D	-776/0	-91.8	-91.8 0.44 (1)	B-I	0/805	0.20 (1)	
D-E	-939/0	-91.8	-91.8 0.28 (1)	H-E	0/807	0.20 (1)	
E-F	0/35	-91.8	-91.8 0.14 (1)				
J-B	-1036/0	0.0	0.0 0.12 (1)				
G-E	-1035/0	0.0	0.0 0.12 (1)				
J-L	0/0	-18.5	-18.5 0.09 (4)				
L-I	0/0	-18.5	-18.5 0.09 (4)				
I-M	0/774	-18.5	-18.5 0.18 (1)				
M-H	0/774	-18.5	-18.5 0.18 (1)				
H-N	0/0	-18.5	-18.5 0.10 (4)				
N-G	0/0	-18.5	-18.5 0.10 (4)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	3-10-8	-145	-145		BACK	VERT	TOTAL		C1
D	7-11-8	-145	-145		BACK	VERT	TOTAL		C1
H	7-10-12	-14	-14		BACK	VERT	TOTAL		C1
I	3-11-4	-14	-14		BACK	VERT	TOTAL		C1
K	5-11-0	-59	-59		BACK	VERT	TOTAL		C1
L	1-11-4	-14	-14		BACK	VERT	TOTAL		C1
M	5-11-0	-14	-14		BACK	VERT	TOTAL		C1
N	9-10-12	-14	-14		BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 51 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.39")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.39")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.44/1.00 (C-D:1), BC=0.18/1.00 (H-I:1), WB=0.20/1.00 (E-H:1), SS=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

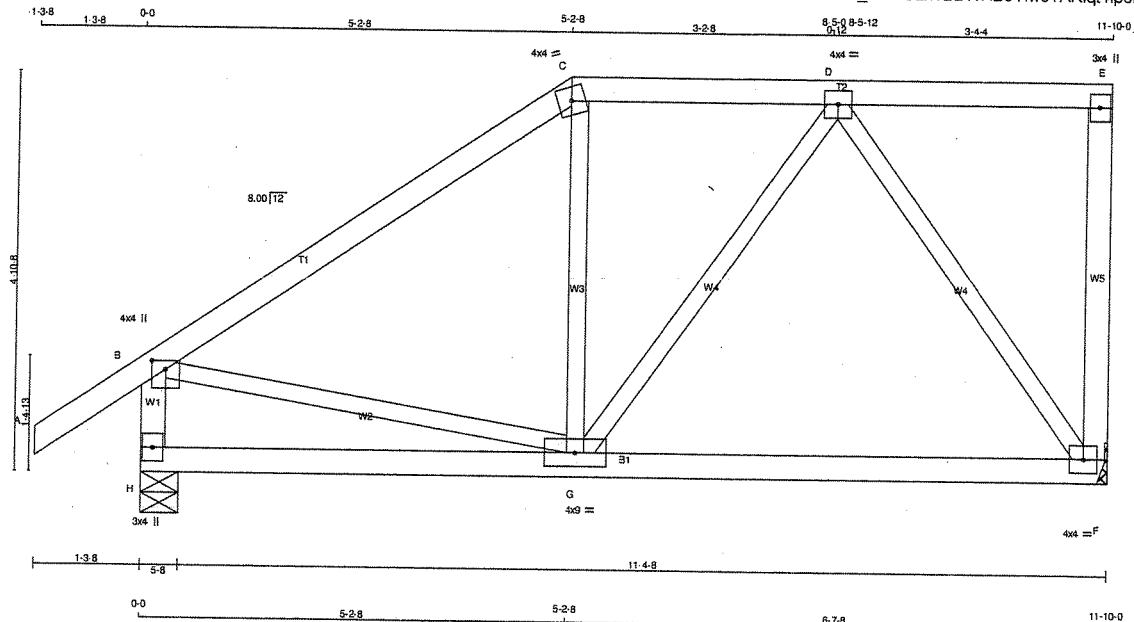
JSI GRIP = 0.81 (E) (INPUT = 0.90)
JSI METAL = 0.28 (E) (INPUT = 1.00)



Structural component only
DWG# T-2115323

JOB NAME 410969	TRUSS NAME T44	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. Fri May 21 17:08:26 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-3ah1BBWHB0Ylw0TAKlq4lp6rioMUY9PnCjF?DzEDup



TOTAL WEIGHT = 52 lb

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

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	4.0	1.25	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	TMV+p	MT20	3.0	4.0		
F	BMVW1-t	MT20	4.0	4.0		
G	BMVW-t	MT20	4.0	9.0		
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

JT	FACTORED		MAXIMUM FACTORED		INPUT	RECORD
	GROSS REACTION	DOWN	GROSS REACTION	UP		
F	652	0	652	0	BRG	BRG
H	778	0	778	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	461	303 / 0	0 / 0	0 / 0	0 / 0	159 / 0	0 / 0
H	548	373 / 0	0 / 0	0 / 0	0 / 0	175 / 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. FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	G-C	-63 / 42	0.02 (1)	
B-C	-523 / 0	-91.8 -91.8	0.45 (1)	G-D	0 / 135	0.03 (4)	
C-D	-432 / 0	-91.8 -91.8	0.17 (1)	D-F	-603 / 0	0.32 (1)	
D-E	0 / 0	-91.8 -91.8	0.16 (1)	B-G	0 / 443	0.10 (1)	
F-E	-118 / 0	0.0 0.0	0.05 (1)				
H-B	-743 / 0	0.0 0.0	0.08 (1)				
H-G	0 / 0	-18.5 -18.5	0.19 (4)				
G-F	0 / 356	-18.5 -18.5	0.22 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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) = $L/360$ (0.39")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.39")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.05")

CSI: TC=0.45/1.00 (B-C:1), BC=0.22/1.00 (F-G:4), WB=0.32/1.00 (D-F: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	MAX MIN	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

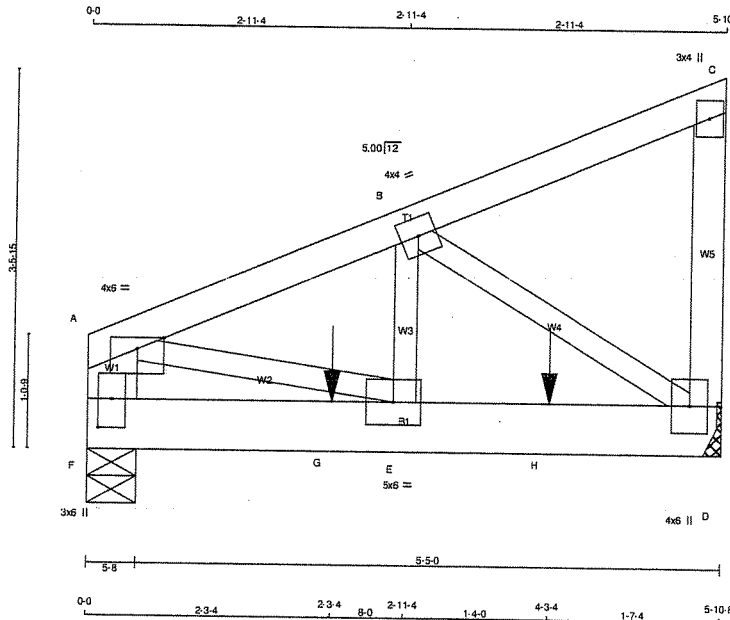
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.55 (B) (INPUT = 0.90)
JSI METAL = 0.16 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115324

JOB NAME 410969	TRUSS NAME T45	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. Fri May 21 17:08:27 2021 Page 1 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-XmFPOXXyKgcY92MuSL6dyLNFR8PD10Y?s2oXfzEDuc	



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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A 2	12	TOP
A-C 1	12	TOP
C-D 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 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	Edge
B	TMVW-t	MT20	4.0	4.0	
C	TMV-p	MT20	3.0	4.0	
D	8MVW1+p	MT20	4.0	6.0	
E	8MVW-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 8RG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	957	0	957	0	5-8
D	1119	0	1119	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	673	462 / 0	0 / 0	0 / 0	0 / 0	0 / 0	211 / 0	0 / 0
D	787	542 / 0	0 / 0	0 / 0	0 / 0	0 / 0	245 / 0	0 / 0

BEARING MATERIAL TO BE 8E SPF NO.2 OR 8 BETTER AT JOINT(S) F

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)
FR-TO				FR-TO	
F-A	-842 / 0	0.0	0.0 0.03 (1)	A-E	0 / 1168
A-B	-1226 / 0	-91.8	-91.8 0.06 (1)	E-8	0 / 890
B-C	-9 / 0	-91.8	-91.8 0.05 (1)	8-D	-1354 / 0
D-C	-112 / 0	0.0	0.0 0.01 (1)		
F-G	0 / 0	-18.5	-18.5 0.08 (1)		
G-E	0 / 0	-18.5	-18.5 0.08 (1)		
E-H	0 / 1140	-18.5	-18.5 0.23 (1)		
H-D	0 / 1140	-18.5	-18.5 0.23 (1)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-3-4	-501	-501	---	8ACK	VERT	TOTAL	---	C1
H	4-3-4	-501	-501	---	8ACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 28 = 55 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, A8C 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 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.06/1.00 (A-B:1), 8C=0.23/1.00 (D-E:1), W8=0.15/1.00 (B-D:1), SSI=0.22/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LS 8END=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	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= 0.68 (8) (INPUT = 0.90)

JSI METAL= 0.26 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115325

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T45	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:27 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-XmFPcXvKgcY92MuSL6dyLNfR8PD10Y?s2oXfzEDuc

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
F	BMV1+p	MT20	3.0	6.0	3.25	1.50

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

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

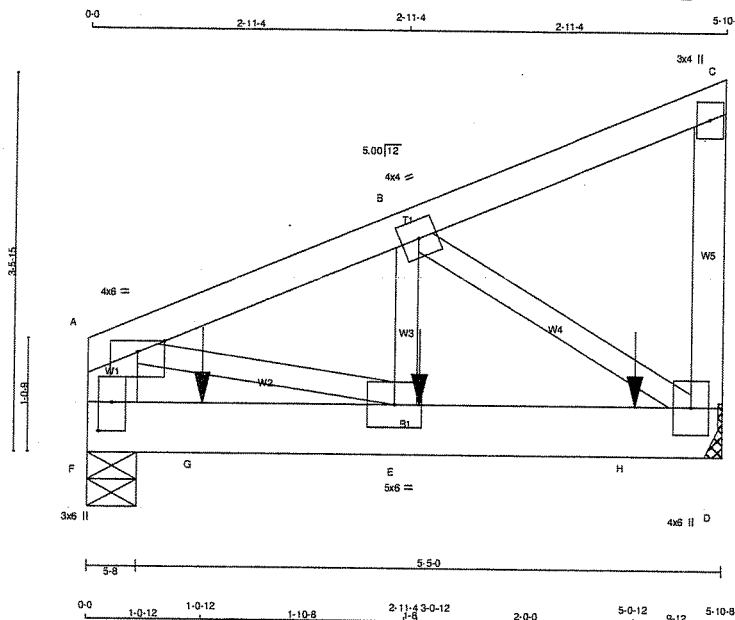


Structural component only
DWG# T-2115325 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T45Z	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:28 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-?ypnbtXXjdoT9JdZRA9AuXhRWhyVXIeWoL35zEDun



TOTAL WEIGHT = 2 X 28 = 55 lb

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A 2	12	TOP
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 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	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	525	0	525	0	5-8
D	666	0	666	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	368	261 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0	0 / 0
D	465	340 / 0	0 / 0	0 / 0	0 / 0	126 / 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		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO	
F-A	-447 / 0	0.0	0.0 0.02 (1)	A-E	0 / 546
A-B	-566 / 0	-91.8	-91.8 0.06 (1)	E-B	0 / 236
B-C	-11 / 0	-91.8	-91.8 0.06 (1)	B-D	-633 / 0
D-C	-106 / 0	0.0	0.0 0.01 (1)		
F-G	0 / 0	-18.5	-18.5 0.03 (1)		
G-E	0 / 0	-18.5	-18.5 0.03 (1)		
E-H	0 / 533	-18.5	-18.5 0.10 (1)		
H-D	0 / 533	-18.5	-18.5 0.10 (1)		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-0-12	-124	-124	---	FRONT	VERT	TOTAL	---	C1
G	1-0-12	-61	-61	---	FRONT	VERT	TOTAL	---	C1
H	5-0-12	-189	-189	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 QF 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.06/1.00 (A-B:1) , BC=0.10/1.00 (D-E:1) , WB=0.07/1.00 (B-D:1) , SSI=0.07/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.28 (D) (INPUT = 0.90)
JSI METAL = 0.12 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115326

CONTINUED ON PAGE 2

JOB NAME 410969	TRUSS NAME T45Z	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. Fri May 21 17:08:28 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-?ypnbtXXjdoT9JdZRAAsL9AuXhrWhyVXiEWoL35zEDun

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
F	BMV1+p	MT20	3.0	6.0	3.25	1.50

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

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

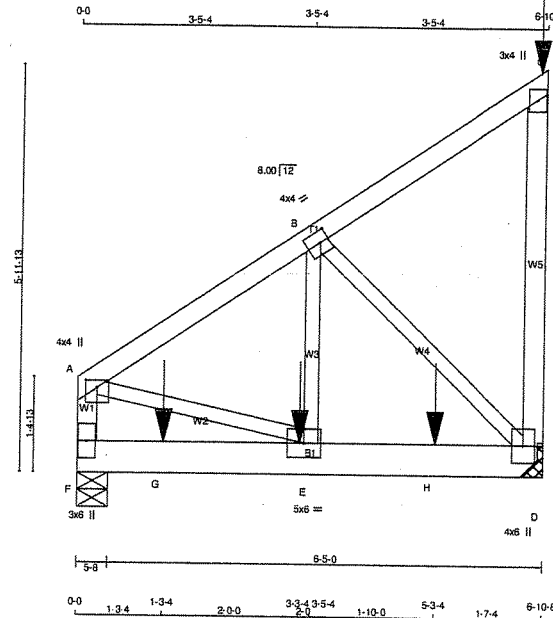


Structural component only
DWG# T-2115326 *mn*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T46	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:29 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-U9N9pDYAUxwKtNtCI?NaiNrfzFpXhwurTAXvcXzEDum



Scale = 1/32"

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
F - A	2x4 DRY	No.2	SPF		
A - C	2x4 DRY	No.2	SPF		
D - C	2x4 DRY	No.2	SPF		
F - D	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 1	12	TOP
A-C 1	12	SIDE(61.0)
C-D 1	12	SIDE(125.8)
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
B-E 1	6	SIDE(92.1)
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	4.0	1.25	2.00
B	TMWW-t	MT20	4.0	4.0	2.00	1.50
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	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
F	1265	0	1265	0
D	2156	0	2156	0

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

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
F	889	618 / 0	0 / 0	0 / 0	271 / 0
D	1507	1088 / 0	0 / 0	0 / 0	419 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX.	MAX.	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	(PLF)	CSI (LC)	UNBRAC	LENGTH	MEMB.	FORCE
FR-TO	(LBS)	FROM	TO	CS	LC	FR-TO	MEMB.	FORCE
F-A	-1116 / 0	0.0	0.0	0.06 (1)	7.81	A-E	0 / 1082	0.13 (1)
A-B	-1229 / 0	-91.8	-91.8	0.10 (1)	6.25	E-B	0 / 1301	0.16 (1)
B-C	-20 / 0	-91.8	-91.8	0.09 (1)	6.25	B-D	-1438 / 0	0.26 (1)
D-C	-838 / 0	0.0	0.0	0.26 (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-H	0 / 1039	-18.5	-18.5	0.25 (1)	10.00			
H-D	0 / 1039	-18.5	-18.5	0.25 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	6'-10-8	-493	-493	---	BACK	VERT	TOTAL	---	C1
G	3'-3-4	-742	-742	---	FRONT	VERT	TOTAL	---	C1
H	1'-3-4	-179	-179	---	TOP	VERT	TOTAL	---	C1
G	5'-3-4	-447	-447	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 37 = 74 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 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 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.28/1.00 (C-D:1), BC=0.25/1.00 (D-E:1),
WB=0.26/1.00 (B-D:1), SS=0.12/1.00 (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)
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 = 0.77 (B) (INPUT = 0.90)
JSI METAL = 0.23 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115327

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	T46	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:08:29 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-U9N9pDYAUxwKntCtI?tNaiNRtzFpXhwurTAXvcXzEDum

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
E	BMW-t	MT20	5.0	6.0		
F	BMV1+p	MT20	3.0	6.0		

NOTES- (1)

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

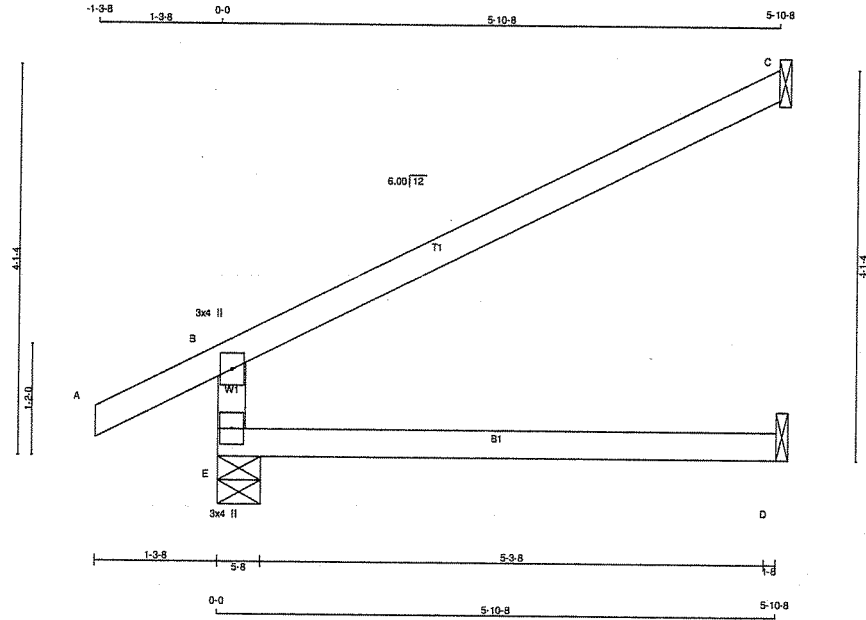


Structural component only
DWG# T-2115327 *ml*

JOB NAME 410965	TRUSS NAME J1	QUANTITY 17	PLY 1	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
---------------------------	-------------------------	-----------------------	-----------------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 15:58:54 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-ksMT0ca3zlok?QMhULqN7f2cWvyZsTbtqSd7M_zEEExt



TOTAL WEIGHT = 17 X 17 = 286 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	525	0	525	0	5-8	5-8	
C	202	0	202	0	1-8	1-8	
D	45	0	50	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	369	257 / 0	0 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0
C	139	113 / 0	0 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

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		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO					FR-TO		
E-B	-461 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00		
B-C	-30 / 0	-91.8	-91.8	0.54 (1)	6.25		
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

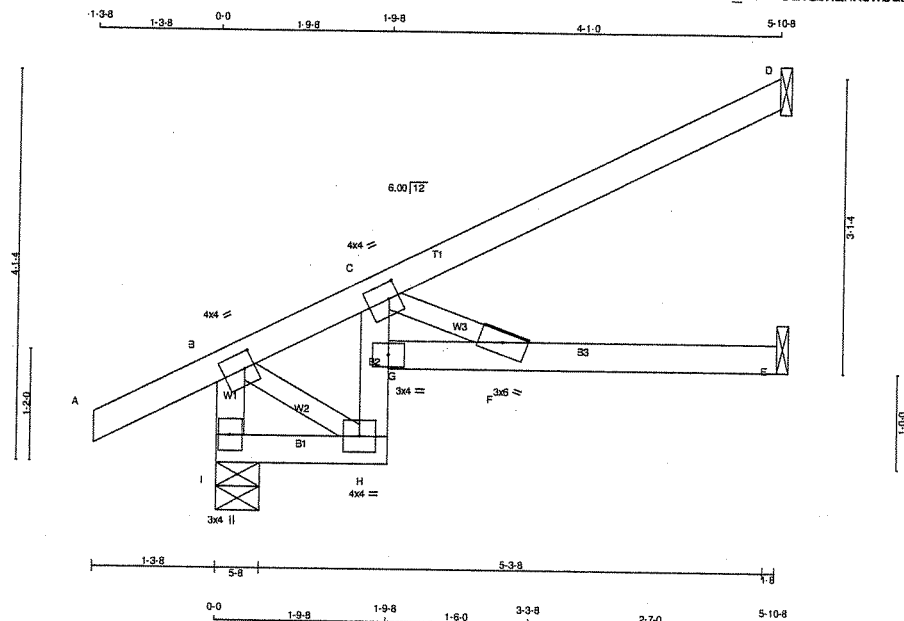
JSI GRIP= 0.18 (E) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115254

JOB NAME 410965	TRUSS NAME J1S	QUANTITY 6	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. Fri May 21 15:56:55 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-C2vsbXahkcwbDaxUS3LcgsarDJEObvcp36MhuQzEExs



Scale = 1/2\"/>

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

DESCR.
SPF
SPF
SPF
SPF
SPF
SPF

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
I	463	0	463	0	5-8	5-8
D	196	0	196	0	1-8	1-8
E	113	0	113	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	325	228 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
D	136	105 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
E	83	37 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED				WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD	LC1	MAX	MEMB.	FORCE (LBS)	MAX	CSI (LC)
FR-TO						FR-TO			
I-B	-448 / 0	0.0	0.0	0.05 (1)	7.81	B-H	0 / 210	0.05 (1)	
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-F	-515 / 0	0.08 (1)	
B-C	-234 / 0	-91.8	-91.8	0.12 (1)	6.25				
C-D	0 / 4	-91.8	-91.8	0.29 (1)	10.00				
I-H	0 / 0	-18.5	-18.5	0.01 (4)	10.00				
H-G	-82 / 0	0.0	0.0	0.25 (1)	7.81				
G-C	0 / 116	0.0	0.0	0.27 (1)	10.00				
G-F	0 / 460	-18.5	-18.5	0.41 (1)	10.00				
F-E	0 / 0	-18.5	-18.5	0.34 (1)	10.00				

TOTAL WEIGHT = 6 X 21 = 125 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.06")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/567$ (0.12")

CSI: TC=0.29/1.00 (C-D:1), BC=0.41/1.00 (F-G:1), WB=0.08/1.00 (C-F:1), SS=0.21/1.00 (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)	(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= 0.40 (C) (INPUT = 0.90)
JSI METAL= 0.16 (G) (INPUT = 1.00)

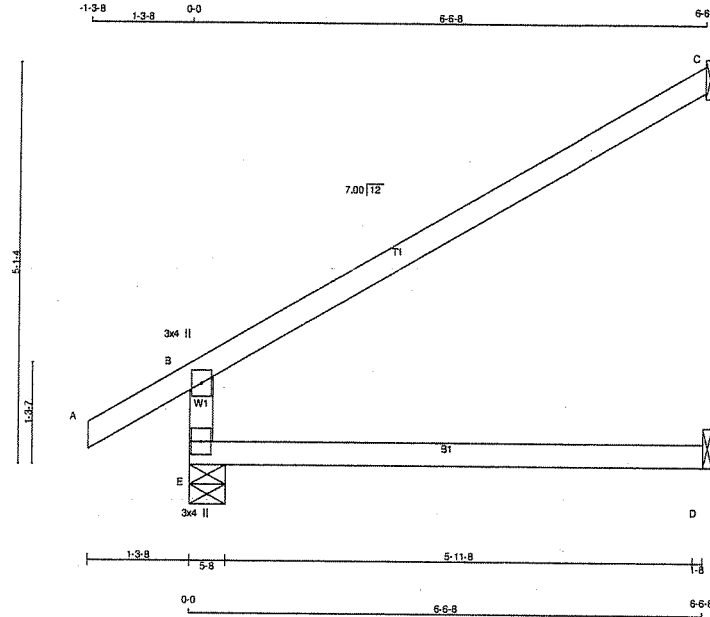


Structural component only
DWG# T-2115255

JOB NAME 410965	TRUSS NAME J2	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
---------------------------	-------------------------	----------------------	-----------------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Fri May 21 15:56:56 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-gFTEoHbJUv2SFkWG0msrC47yNieZKN5ylm6EQszEEExr



TOTAL WEIGHT = 3 X 19 = 57 lb
(M/F)

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

DRY: SEASONED LUMBER.

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
E	571	0	571	0	0	5-8	5-8	5-8	5-8
C	225	0	225	0	0	1-8	1-8	1-8	1-8
D	50	0	56	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
E	401	279 / 0	0 / 0	0 / 0	0 / 0	122 / 0	0 / 0
C	155	126 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0
D	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 = 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		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX	CS1 (LC)
FR-TO		FROM	TO	FR-TO			
E-B	-500 / 0	0.0	0.0	0.14 (4)	7.81		
A-B	0 / 32	-91.8	-91.8	0.12 (1)	10.00		
B-C	-38 / 0	-91.8	-91.8	0.52 (1)	6.25		
E-D	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

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

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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CS1: TC=0.52/1.00 (B-C:1), BC=0.16/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SS1=0.25/1.00 (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
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

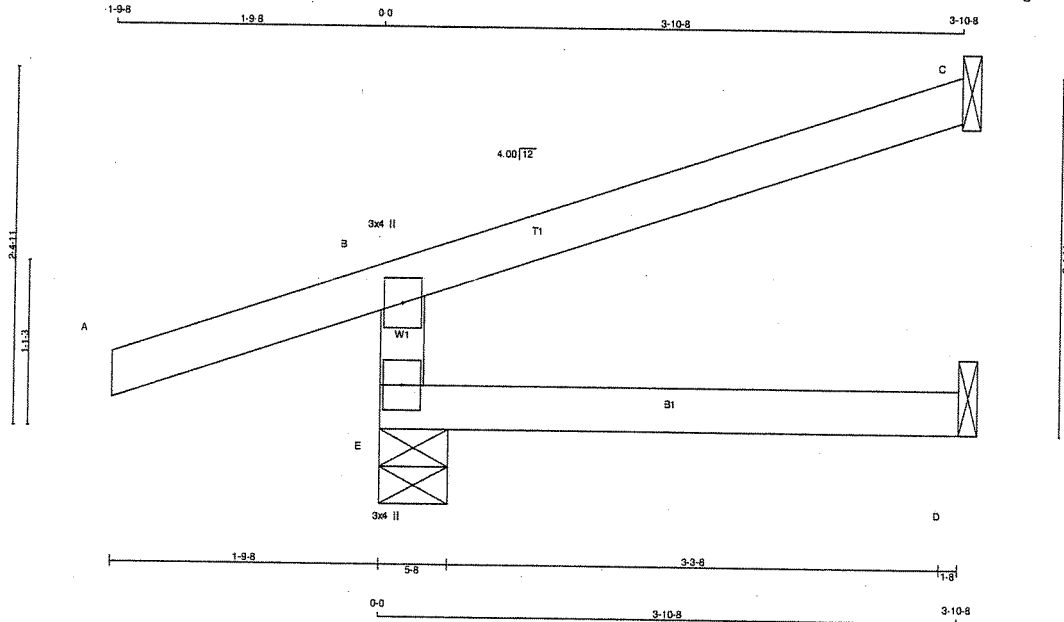
JSI GRIP= 0.20 (E) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115256

JOB NAME 410965	TRUSS NAME J3	QUANTITY 4	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. Fri May 21 15:56:56 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-gfTEoHbJuv2SFkWG0msrC471oig9KN5ylm6EQszEEExr



TOTAL WEIGHT = 4 X 12 = 48 lb

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

DRY: SEASONED LUMBER.

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

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT							
E	432	0	432	0	5-8	5-8	
C	133	0	133	0	1-8	1-8	
D	30	0	34	0	1-8	1-8	

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

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	302	218/0	0/0	0/0	0/0	84/0	0/0
C	92	74/0	0/0	0/0	0/0	17/0	0/0
D	24	0/0	0/0	0/0	0/0	24/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED				WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
E-B	-391/0	0.0	0.0	0.05 (4)	7.81		
A-B	0/27	-91.8	-91.8	0.23 (5)	10.00		
B-C	-14/0	-91.8	-91.8	0.23 (1)	6.25		
E-D	0/0	-18.5	-18.5	0.06 (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 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
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=0.06/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.16 (E) (INPUT = 0.90)

JSI METAL= 0.08 (B) (INPUT = 1.00)

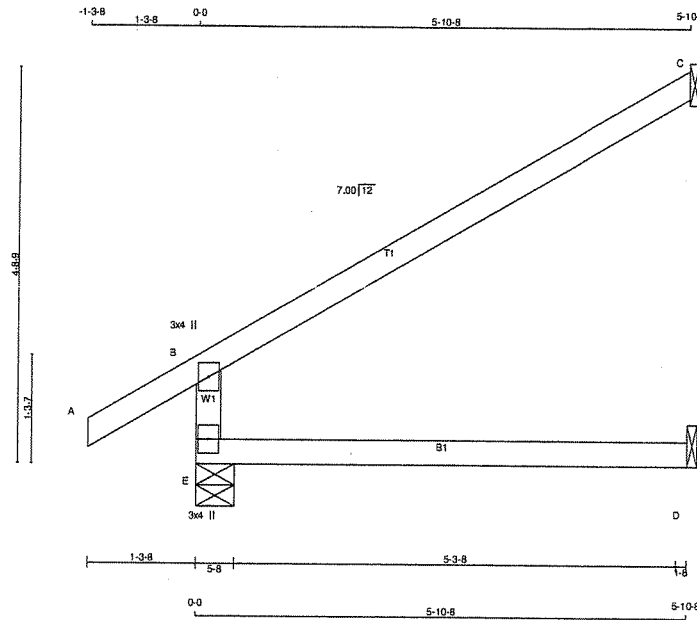


Structural component only
DWG# T-2115257

JOB NAME 418972	TRUSS NAME J20	QUANTITY 5	PLY 1	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed May 26 14:53:24 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-UaGz4dXdcDZO2Y_nvrWOGNEsub5VPUUzMV45RzCcPP



Scale = 1/28.2

TOTAL WEIGHT = 5 X 17 = 86 lb

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

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REORD BRG
	VERT	HORZ	DOWN	HORZ		
E	526	0	526	0	5-8	5-8
C	202	0	202	0	1-8	1-8
D	45	0	51	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	369	258 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0
C	139	113 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

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

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		FACTORED				WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	CS1 (LC)	UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM TO						
E-B	-462 / 0	0.0	0.0	0.13 (4)	7.81			
A-B	0 / 32	-91.8	-91.8	0.12 (1)	10.00			
B-C	-34 / 0	-91.8	-91.8	0.54 (1)	6.25			
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CS1: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SS1=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

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

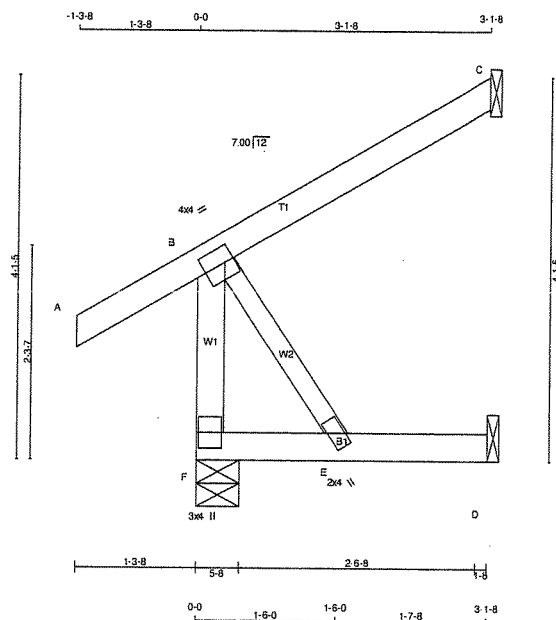
JSI GRIP= 0.19 (E) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115888

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed May 26 14:53:25 2021 Page 1
ID:w1TZe5RpU4szZiCfG5PpdzFeW5-ynqLHzYFN?LQ0C6ALcMlwUwVfzXEskdCQfddtzCcPC



TOTAL WEIGHT = $5 \times 14 = 68 \text{ lb}$

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-t	MT20	4.0	4.0	200	1.25
E	BMW+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
F	298	0	298	0	0	5-8
C	143	0	143	0	0	1-8
D	29	0	32	0	0	1-8

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

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
J	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	208	150 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0
C	99	80 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0
D	23	0 / 0	0 / 0	0 / 0	0 / 0	23 / 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)

C H O R D S					W E B S				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. (PLF)	LOAD LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
F-B	-269 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)	
A-B	0 / 32	-91.8	-91.8	0.13 (5)	10.00				
B-C	0 / 0	-91.8	-91.8	0.15 (1)	10.00				
F-E	0 / 0	-18.5	-18.5	0.05 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.05 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.15/1.00 (B-C:1), BC=0.05/1.00 (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=f.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. ≈ 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)

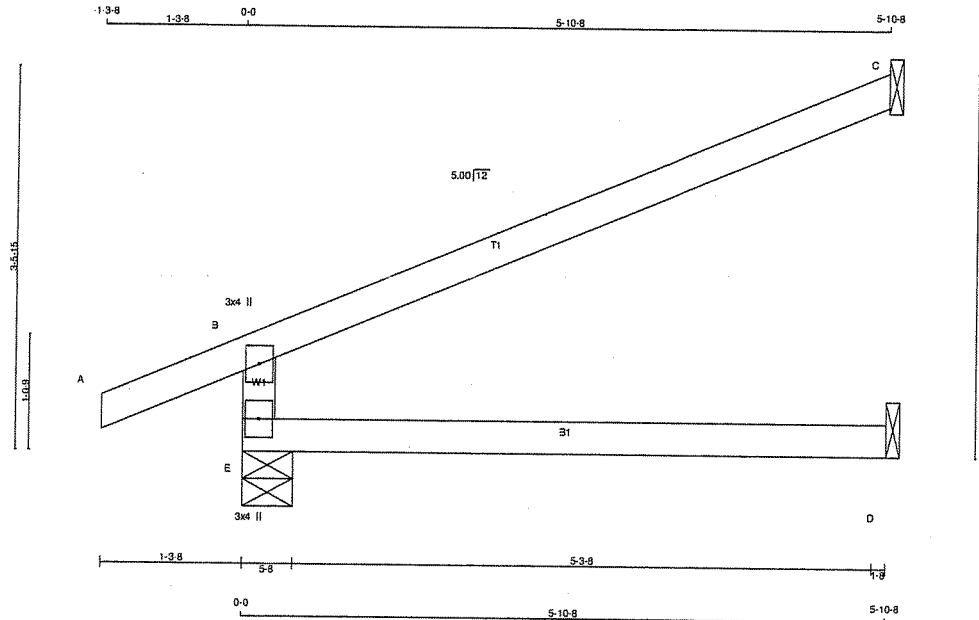
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115889

JOB NAME 410969	TRUSS NAME J30	QUANTITY 17	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. Fri May 21 17:07:58 2021 Page 1
ID:GAonzd6DLBrd2xE89xNtRz_BuP-uB?RlcAjnP0KZiKohsKlXreIRIF3wyCHKrXm1qzEDvF



TOTAL WEIGHT = 17 X 16 = 278 lb

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES-

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	525	0	525	0	5-8	5-8
C	202	0	202	0	1-8	1-8
D	44	0	50	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		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
E	368	257/0	0/0	0/0	0/0	112/0	0/0
C	139	113/0	0/0	0/0	0/0	26/0	0/0
D	36	0/0	0/0	0/0	0/0	36/0	0/0

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

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		FACTORED		MAX. UNBRAC LENGTH	WEBS	FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	VERT. LOAD (PLF)	CSI (LC)			MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO								
E-B	-461/0	0.0	0.0	0.14 (4)	7.81			
A-B	0/24	-91.8	-91.8	0.12 (1)	10.00			
B-C	-26/0	-91.8	-91.8	0.54 (1)	6.25			
E-D	0/0	-18.5	-18.5	0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.54/1.00 (B-C:1), BC=0.14/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

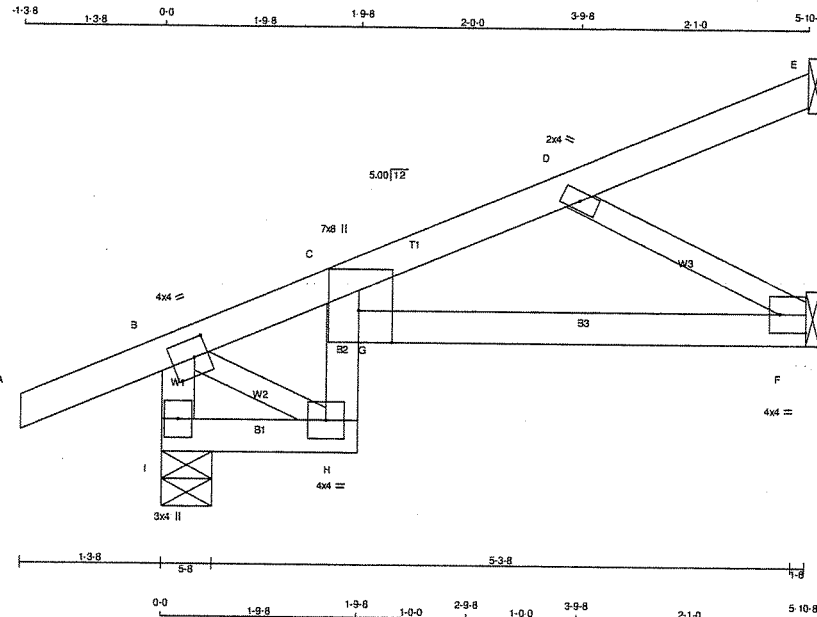
JSI GRIP= 0.18 (E) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115301

JOB NAME 410969	TRUSS NAME J30S	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. Fri May 21 17:07:59 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNIRz_BuP-MNZqWyBLyJ8bBsv_FarXU3BZt9bZfONRZVGJZHEDvE



TOTAL WEIGHT = 6 X 21 = 124 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	4.0	4.0	2.00 1.50
C					
C	TMBV-m	MT20	7.0	8.0	3.75 3.50
D	TMVW-w	MT20	2.0	4.0	
F	BMV1-t	MT20	4.0	4.0	2.00 Edge
G					
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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
I	456	0	456	0	5-8
E	53	0	53	0	1-8
F	259	0	259	0	1-8

SEE MITK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) E, F

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	320	225 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0
E	36	35 / 0	0 / 0	0 / 0	0 / 0	1 / 0	0 / 0
F	186	110 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED				WEBS			
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			
I-B	-466 / 0	0.0	0.0	0.02 (4)	7.81	B-H	0 / 185	0.04 (1)	
A-B	0 / 24	-91.8	-91.8	0.12 (1)	10.00	D-F	-388 / 0	0.07 (1)	
B-C	-235 / 0	-91.8	-91.8	0.14 (1)	6.25				
C-D	-313 / 0	-91.8	-91.8	0.18 (1)	6.25				
D-E	-17 / 0	-91.8	-91.8	0.13 (1)	6.25				
I-H	0 / 18	-18.5	-18.5	0.06 (1)	10.00				
H-G	-36 / 7	0.0	0.0	0.18 (1)	7.81				
G-C	0 / 54	0.0	0.0	0.12 (1)	10.00				
G-F	0 / 326	-18.5	-18.5	0.14 (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 088-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
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=0.18/1.00 (C-D:1), BC=0.18/1.00 (G-H:1), WB=0.07/1.00 (D-F:1), SS=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (B) (INPUT = 0.90)

JSI METAL= 0.19 (D) (INPUT = 1.00)

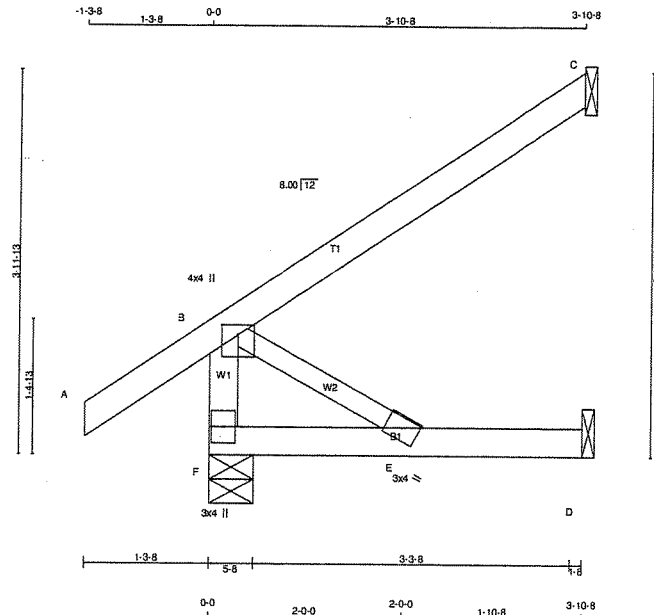


Structural component only
DWG# T-2115302

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	J31	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri May 21 17:08:00 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-qZ7CjCzJ1GS0U0A0HmM1GkhZyN0shao90t5jzEDvD



TOTAL WEIGHT = 6 X 15 = 87 lb [M]

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER		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	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	340	0	340	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 CASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
F	238	169 / 0	0 / 0	0 / 0	0 / 0	68 / 0	0 / 0
C	122	99 / 0	0 / 0	0 / 0	0 / 0	23 / 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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MAX. MEMB.	FORCE	MAX	CS1 (LC)
FR-TO		(LBS)	(PLF)	CS1 (LC)	UNBRAC LENGTH	FR-TO	(LBS)	CS1 (LC)
F-B	-304 / 0		0.0	0.0	0.03 (1)	7.81	0 / 0	0.00 (1)
A-B	0 / 35		-91.8	-91.8	0.14 (5)	10.00		
B-C	0 / 0		-91.8	-91.8	0.23 (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/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
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=0.12/1.00 (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

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.

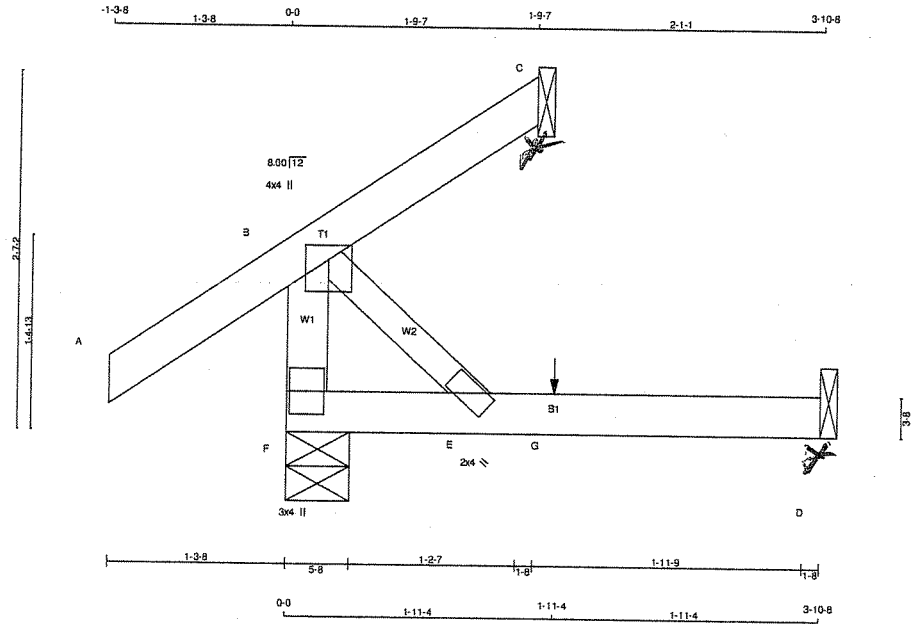
JSI GRIP= 0.20 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115303

JOB NAME 410969	TRUSS NAME C30	QUANTITY 4	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. Fri May 21 17:07:50 2021 Page 1
 ID:GAonzd6DLBrd2xE89xtNtRz_BuP-7eWQdt4igy?scUjFDBAQd9J0hXY22KD6VbbLilzEDvN



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	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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
F	292	0	292	0	5-8	5-8
C	34	0	34	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				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	205	143 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
C	23	19 / -27	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. UNBRACED LENGTH	WEBS	FACTORED	
	MAX. FORCE (LBS)	FACTORED (PLF)	VERT. LOAD	LC1 MAX. CSI (LC)			MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO								
F-B	-256 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8	0.14 (5)	10.00			
B-C	-27 / 0	-91.8	-91.8	0.13 (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

TOTAL WEIGHT = 4 X 11 = 45 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 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=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

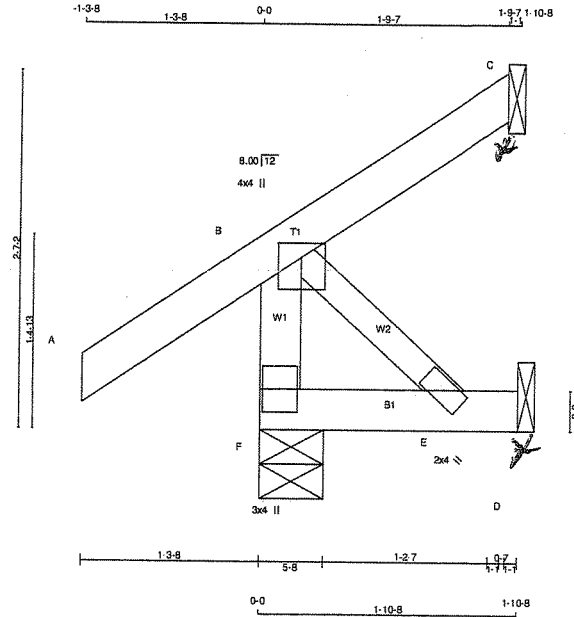
JSI GRIP = 0.17 (B) (INPUT = 0.90)
 JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only
 DWG# T-2115293

JOB NAME 410969	TRUSS NAME C31	QUANTITY 4	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. Fri May 21 17:07:51 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-br4oqD5KR7jDdlSnuif9NsCiwuEnnTFjFKuHkzEDvM



TOTAL WEIGHT = 4 X 9 = 36 lb

LUMBER

N. L. G. A. RULES

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMV-w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES:

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
F	274	274	0	5-8
C	34	34	-39	1-8
D	17	19	0	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

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

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	CS1 (LC)	UNBRAC LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO								FR-TO			
F-B		-256 / 0	0.0	0.0	0.03 (1)	7.81	10.00	B-E		0 / 0	0.00 (1)
A-B		0 / 35	-91.8	-91.8	0.12 (1)	6.25					
B-C		-27 / 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 BC8C 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	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 = 0.05 (B) (INPUT = 1.00)

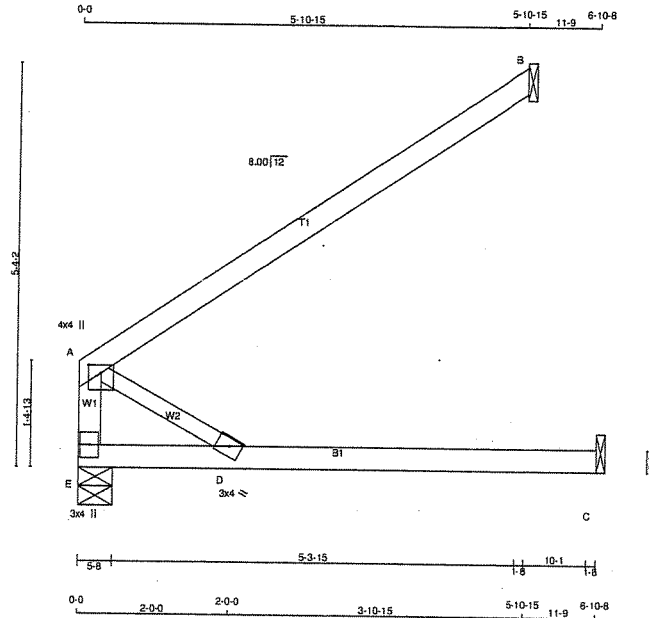


Structural component only
DWG# T-2115294

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	C32	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri May 21 17:07:52 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-31eA2Z5yCZFarteKcDuiaOGsKAmWEjPyv4RpBzEDvL



Scale = 1/2" = 1'-0"

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV+w	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REORD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
E	335	0	335	0	0	5-8	5-8	
B	271	0	271	0	0	1-8	1-8	
C	64	0	71	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE	SNOW	LIVE
E	238	151 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	86 / 0	0 / 0	0 / 0	0 / 0
B	187	151 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0	0 / 0	0 / 0
C	51	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	51 / 0	0 / 0	0 / 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		FACTORED		W E B S		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	LC1 MAX (LC)	MEMB. UNBRACED LENGTH FR-TO	MEMB. UNBRACED LENGTH FR-TO	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO								
E-A	-271 / 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	0.55 (1)	10.00			
E-D	0 / 0	-18.5	-18.5	0.21 (4)	10.00			
D-C	0 / 0	-18.5	-18.5	0.26 (4)	10.00			

TOTAL WEIGHT = 19 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, NBCC 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/819 (0.10")

CSI: TC=0.55/1.00 (A-B:1), BC=0.26/1.00 (C-D:4),
WB=0.00/1.00 (A-D:1), SS=0.18/1.00 (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 (A) (INPUT = 0.90)
JSI METAL = 0.05 (A) (INPUT = 1.00)

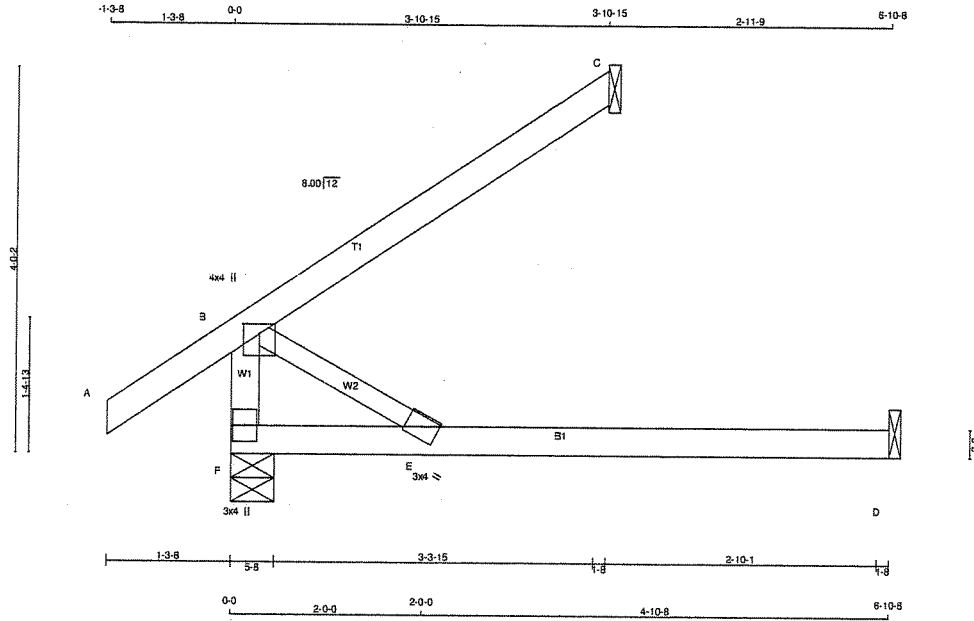


Structural component only
DWG# T-2115295

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	C33	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Fri May 21 17:07:53 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNrZ_BuP-XDCYFv6aztNRTxSquJk7EoxWOKW?FhyYBZp?LdzEDvK



TOTAL WEIGHT = 18 lb [MIF]

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD IN-SX	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
F	369	0	369	0	0	5-8	5-8	
C	179	0	179	0	0	1-8	1-8	
D	64	0	71	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS						SOIL
		1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
F	261	170 / 0	0 / 0	0 / 0	0 / 0	0 / 0	91 / 0	0 / 0
C	124	100 / 0	0 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	51	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	51 / 0	0 / 0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX.		WEBS		FACTORED	
	FR-TO	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	CS1 (LC)	MEMB.	FR-TO	FORCE (LBS)	MAX CS1 (LC)
F-B	-305 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)		
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00					
B-C	0 / 0	-91.8	-91.8	0.24 (1)	10.00					
F-E	0 / 0	-18.5	-18.5	0.21 (4)	10.00					
E-D	0 / 0	-18.5	-18.5	0.26 (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) = $L/360$ (0.23")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.23")
CALCULATED VERT. DEFL.(TL) = $L/819$ (0.10")

CSI: TC=0.24/1.00 (B-C:1), BC=0.26/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=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

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.

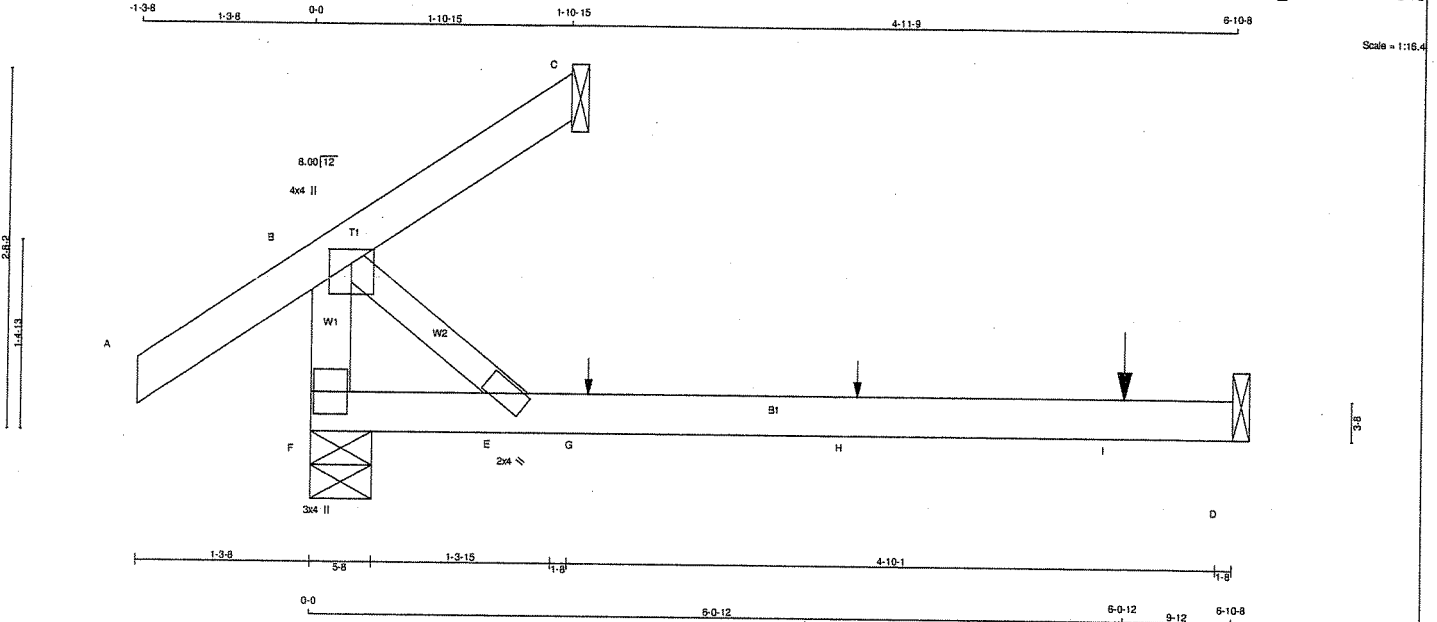
JSI GRIP = 0.20 (B) (INPUT = 0.90)
JSI METAL = 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115296

JOB NAME 410969	TRUSS NAME C34	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. Fri May 21 17:07:54 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-?QmxTF7DkBWl4511S1FMn?Uio8sD_8CiQDZYU3zEDvJ



TOTAL WEIGHT = 15 lb [M/F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	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		REQD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
F	323	0	323	0	0	5-8	5-8	5-8	5-8
C	42	0	42	0	0	1-8	1-8	1-8	1-8
D	65	0	73	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 LC CASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	UVE	PERM. LIVE	WIND
F	229	144 / 0	0 / 0	0 / 0	85 / 0
C	29	24 / 0	0 / 0	0 / 0	6 / 0
D	52	0 / 0	0 / 0	0 / 0	52 / 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		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-B	-259 / 0	B-E	0 / 0
A-B	0 / 35		
B-C	-25 / 0		
F-E	0 / 0		
E-G	0 / 0		
G-H	0 / 0		
H-I	0 / 0		
I-D	0 / 0		

SPECIFIED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE		HEEL		CONN.	
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.	FACE	DIR.
G	2-0-12	1	1	---	BACK	VERT	TOTAL	---	C1	---	---
H	4-0-12	1	1	---	BACK	VERT	TOTAL	---	C1	---	---
I	6-0-12	-1	-1	---	BACK	VERT	TOTAL	---	C1	---	---

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

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 085-14
- TPIC 2014

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/813 (0.10")

CSI: TC=0.13/1.00 (A-B:1), BC=0.26/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

DOL LUMBER=0.93 NAIL=0.93 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 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 = 0.06 (B) (INPUT = 1.00)

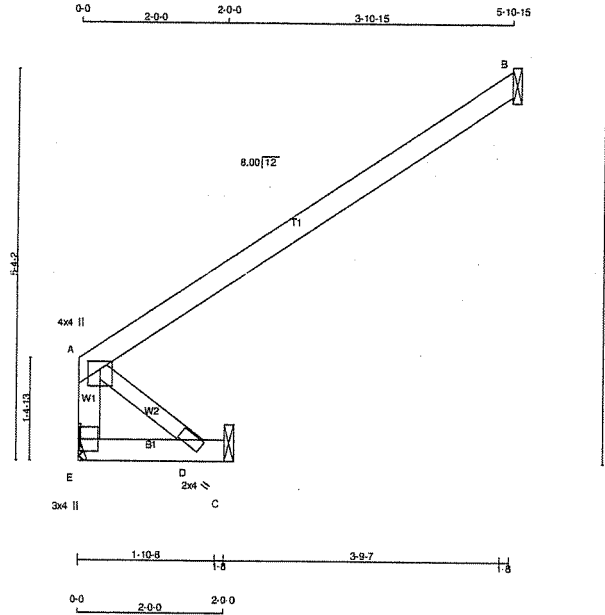


Structural component only
DWG# T-2115297

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	C35	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:07:55 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-TcJjgb8rUUe9iFbD0kmbKD0n5YG8jbSretf6QWzEDvI



TOTAL WEIGHT = 13 lb
[M/F]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
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	REQD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
E	290	0	290	0	0	0
B	271	0	271	0	1-8	1-8
C	19	0	21	0	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	COMBINED	MAX / MIN. COMPONENT REACTIONS					
		1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD
E	202	151 / 0	0 / 0	0 / 0	0 / 0	0 / 0	50 / 0
B	187	151 / 0	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0
C	15	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	15 / 0

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
E-A	-271 / 0	0.0	0.03 (1)	A-D	0 / 0	0.00 (1)	
A-B	0 / 0	-91.8	-91.8 0.55 (1)				
E-D	0 / 0	-18.5	-18.5 0.02 (4)				
D-C	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/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 (0.00")

CSI: TC=0.55/1.00 (A-B:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (A-D:1), SSI=0.18/1.00 (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 (A) (INPUT = 0.90)
JSI METAL = 0.05 (A) (INPUT = 1.00)

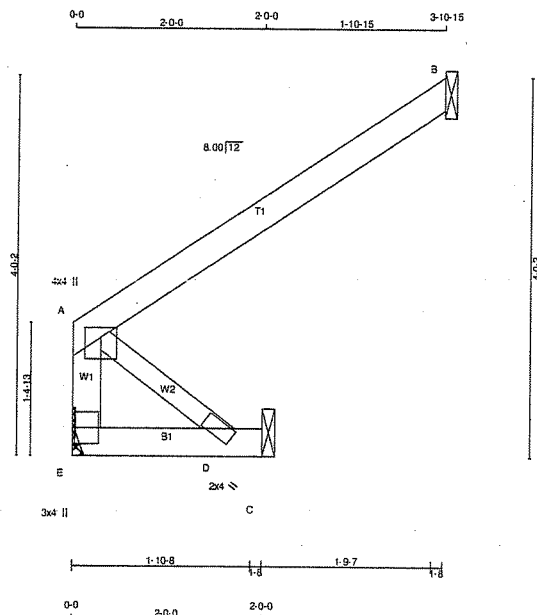


Structural component only
DWG# T-2115298

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	C36	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:07:55 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-TcJgB8rUUe9iFbD0kmbKD0suYG8jbSretI6QWzEDvI



Scale = 1/23.2

TOTAL WEIGHT = 10 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	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) 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	REORD BRG
E	198	0	198	0	0	0
B	179	0	179	0	0	0
C	19	0	21	0	0	0

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

SEE MITEK STANDARD DETAIL B87791H FOR CONNECTION TO JOINT(S) B, C

UNFACTORED REACTIONS

JT	COMBINED	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
E	138	100/0	0/0	0/0	0/0	38/0	0/0
B	124	100/0	0/0	0/0	0/0	23/0	0/0
C	15	0/0	0/0	0/0	0/0	15/0	0/0

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
E-A	-179/0	0.0	0.02 (1)	A-D	0/0	0.00 (1)	
A-B	0/0	-91.8	-91.8 0.24 (1)				
E-D	0/0	-18.5	-18.5 0.02 (4)				
D-C	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/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
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=0.24/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (A-D:1), SS=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	MAX MIN
MT20	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (A) (INPUT = 0.90)

JSI METAL= 0.04 (A) (INPUT = 1.00)

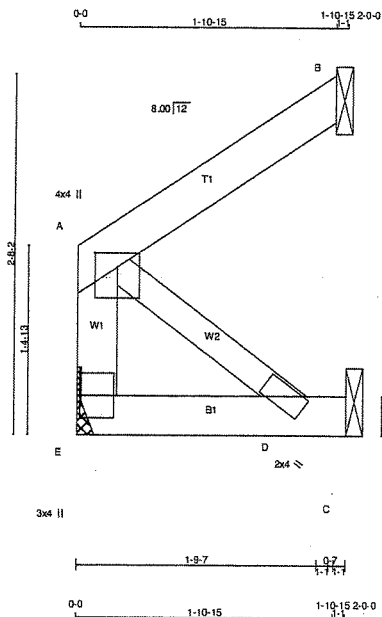


Structural component only
DWG# T-2115299

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
410969	C37	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Fri May 21 17:07:56 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-xothuw9TFom0KPAPZSHqsQZ4TxcNS2i_X2fyzyEDvH



Scale = 1/16.3

TOTAL WEIGHT = 8 lb

LUMBER					DESCR.	
N. L. G. A. RULES	CHORDS	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		RECORD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
E	106	0	106	0	0	MECHANICAL		
B	88	0	88	0	0	1-8	1-8	
C	19	0	21	0	0	1-8	1-8	

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

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	WIND	DEAD	SOIL
E	75	49/0	0/0	0/0	0/0	26/0	0/0
B	60	49/0	0/0	0/0	0/0	11/0	0/0
C	15	0/0	0/0	0/0	0/0	15/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (LC) (1)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. (LC) (1)	
FR-TO				FR-TO			
E-A	-88/0	0.0	0.0 0.01 (1)	A-D	0/0	0.00 (1)	
A-B	0/0	-91.8	-91.8 0.06 (1)				
E-D	0/0	-18.5	-18.5 0.02 (4)				
D-C	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/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) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.00")

CSI: TC=0.06/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (A-D:1), SS=0.06/1.00 (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

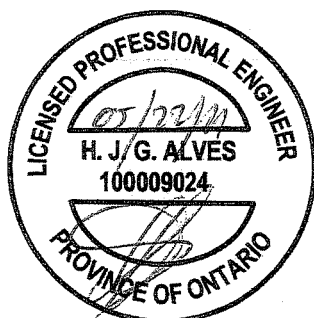
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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= 0.06 (A) (INPUT = 0.90)
JSI METAL= 0.02 (A) (INPUT = 1.00)



Structural component only
DWG# T-2115300



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-1900218

Feb 09, 2018

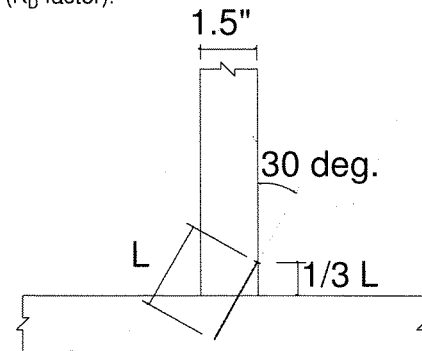
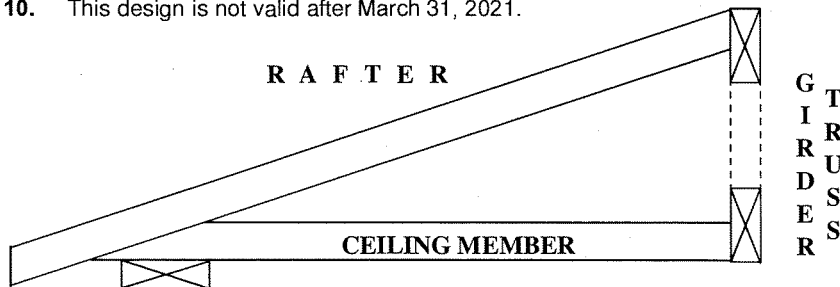
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. 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 (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

December 2, 2019



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

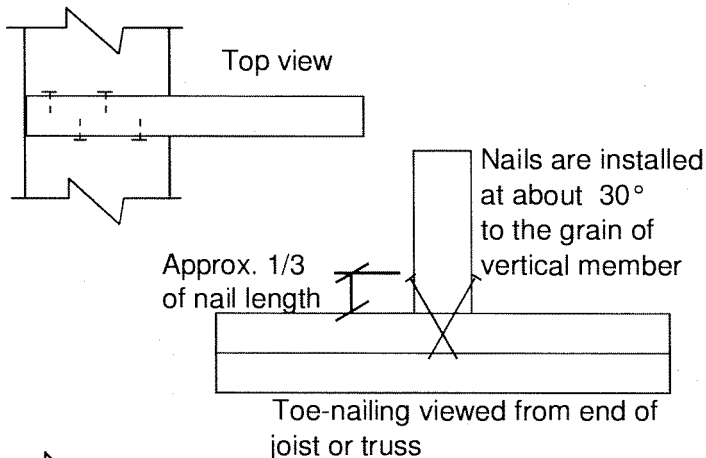
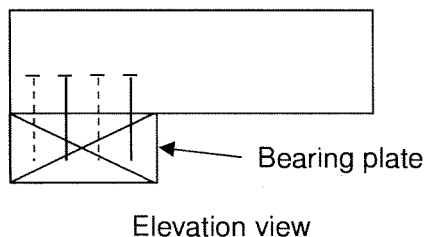
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

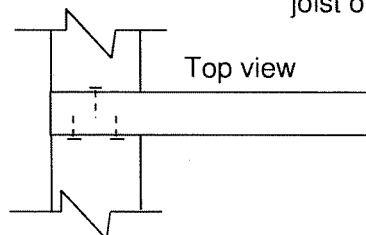
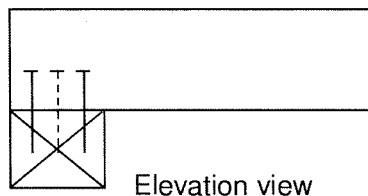
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
6. 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 (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek®

MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

PEO
Certificate No. 10889485



December 2, 2019

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:

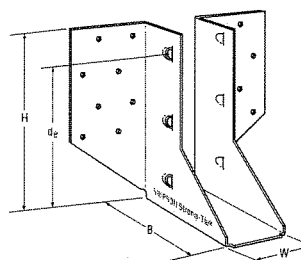
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

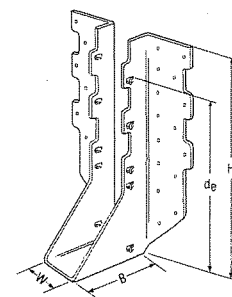
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

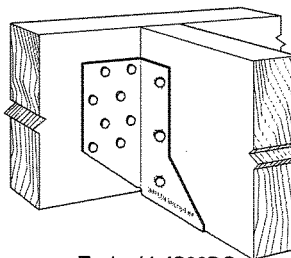
- See current catalogue for options



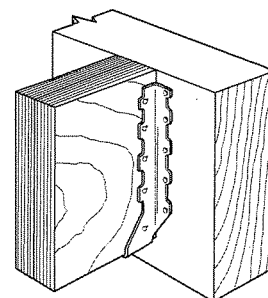
LJS26DS



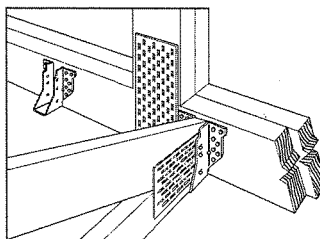
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



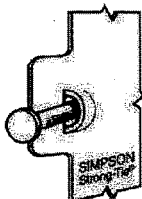
Typical HUS
Installation



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

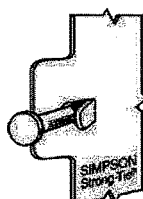
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
LJS26DS	18	1 1/8	5	3 1/2	4 1/8	(16) 16d	(6) 16d	lb.	lb.	lb.	lb.
HUS26	16	1 1/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	2055	4265	1460	4115
HUS28	16	1 1/8	7 3/32	3	6 3/32	(22) 16d	(8) 16d	2705	4940	2065	3875
HUS210	16	1 1/8	9 3/32	3	7 3/32	(30) 16d	(10) 16d	3605	5365	2675	4345
HUS1.81/10	16	1 1/8	9	3	8	(30) 16d	(10) 16d	4505	5795	4010	4740
								4505	6450	4010	5200

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

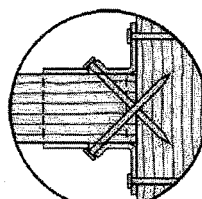


Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models)

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 at www.strongtie.com.

© 2020 Simpson Strong-Tie Company, Inc.

T-SPEC-HUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

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:

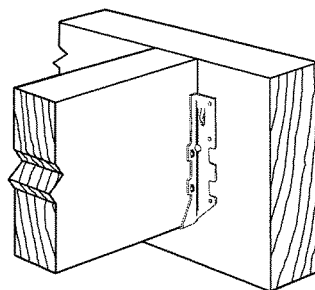
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

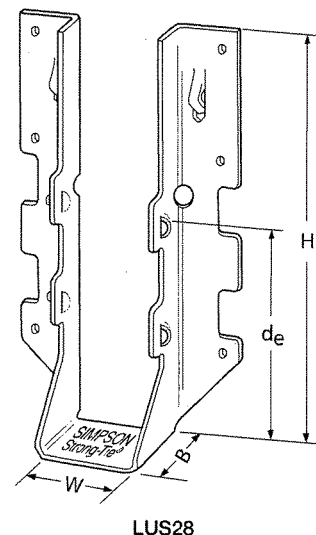
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

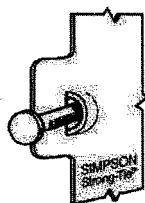


Typical LUS
Installation



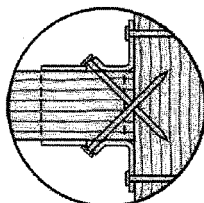
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	O.Fir-L		S-P-F	
								Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
LUS24	18	1⅞	3⅞	1¾	1⅝	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3⅞	3⅞	2	1⅝	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1⅞	4¾	1¾	3⅞	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3⅞	4¾	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4⅞	4⅞	2	3¼	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1⅞	6⅞	1¾	3¾	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3⅞	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4⅞	6¼	2	3¼	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1⅞	7⅝	1¾	3⅞	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3⅞	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4⅞	8⅞	2	5¼	(8) 16d	(6) 16d	2580	3345	2320	2375

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



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

U.S. Patent
5,603,580



Double
Shear
Nailing
Top View.



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPEC/LUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

HGUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: 12 gauge

Finish: G90 galvanized

Design:

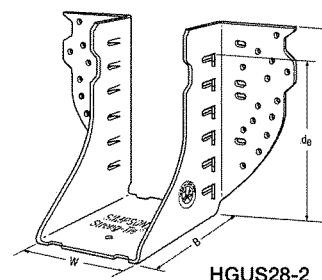
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

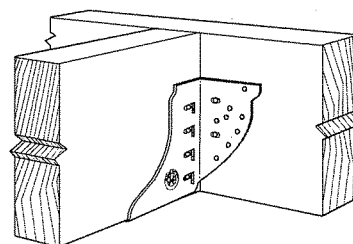
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

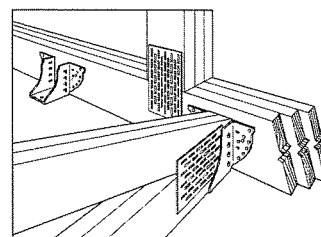
- See current catalogue for options



HGUS28-2



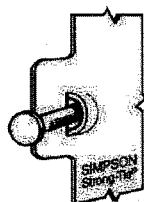
Typical HGUS Installation



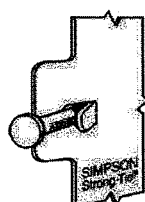
Typical HGUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
HGUS26	12	1 5/8	5 3/8	5	4 5/32	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3 5/16	5 7/16	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4 15/16	5 1/2	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6 9/16	5 7/16	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1 5/8	7 1/8	5	6 1/8	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3 5/16	7 3/16	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4 15/16	7 1/4	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6 9/16	7 3/16	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210	12	1 5/8	9 1/8	5	7 7/8	(46) 16d	(16) 16d	3535	11070	2510	8090
HGUS210-2	12	3 5/16	9 3/16	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS210-3	12	4 15/16	9 1/4	4	8 3/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6 9/16	9 3/16	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6 9/16	10 5/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6 9/16	12 5/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11645

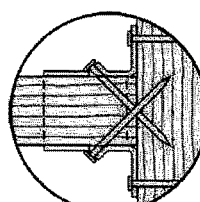
1. d_e is the distance from the seat of the hanger to the highest joist nail.



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 related 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 related variants of our Strong-Tie products.

© 2020 Simpson Strong-Tie Company Inc.

T-SPEC-HGUS20 3/20 EXP. 6/22

(800) 999-5099
strongtie.com

H – Seismic and Hurricane Ties

SIMPSON
Strong-Tie

The H connector series provides wind and seismic ties for trusses and rafters.

Material: 18 gauge **Finish:** G90 galvanized

Design: • Factored resistances are in accordance with CSA O86-14

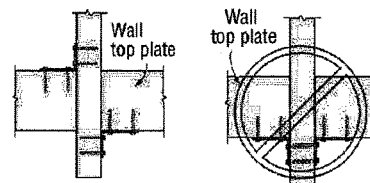
- Factored resistances have been increased 15%. No further increase is permitted.

Installation: • Use all specified fasteners

- Nails: 8d = 0.131" dia. x 2½" long common wire, 8d x 1½" = 0.131" x 1½" long, 10d x 1½" = 0.146" x 1½" long
- H1 can be installed with flanges facing outwards
- Hurricane ties do not replace solid blocking

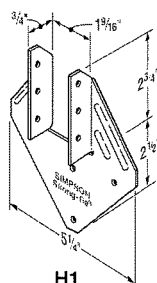
Factored resistances for more than one direction for a single connection cannot be added together. A factored load which can be divided into components in the directions given must be evaluated as follows: Factored Shear/Resisting Shear + Factored Tension/Resisting Tension ≤ 1.0.

Hurricane Tie Installations to Achieve Twice the Load (Top View)

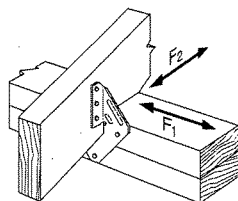


Install diagonally across from each other for minimum 2x truss.

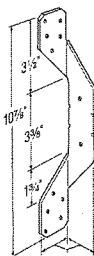
Nailing into both sides of a single ply 2x truss may cause the wood to split.



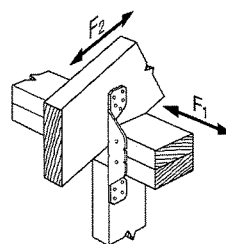
H1



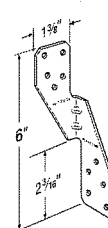
H1 Installation



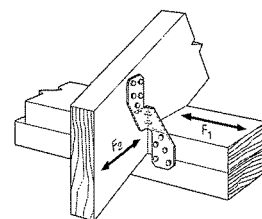
H2A



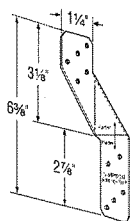
H2A Installation



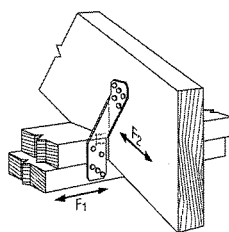
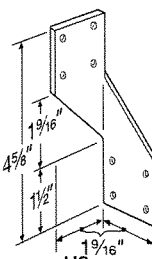
H2.5A



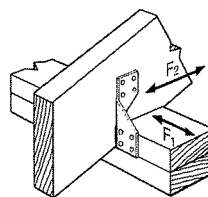
H2.5A Installation



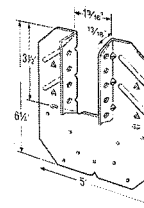
H2.5T

H2.5T Installation
(Nails into both top plates)

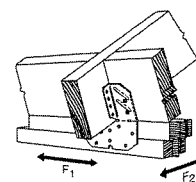
H3



H3 Installation



H10A



H10A Installation

Model No.	Ga.	Fasteners			Factored Resistance (lb.)					
					D.Fir-L			S-P-F		
		To Rafter	To Plates	To Studs	Uplift	Normal		Uplift	Normal	
						F ₁	F ₂		F ₁	F ₂
						(K ₀ =1.15)			(K ₀ =1.15)	
H1	18	(6) 8d x 1½"	(4) 8d	—	740	685	300	680	485	215
H2A	18	(5) 8d x 1½"	(2) 8d x 1½"	(5) 8d x 1½"	830	220	75	590	155	55
H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
H2.5T	18	(5) 8d	(5) 8d	—	835	175	240	740	160	210
H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
H10A	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1735	795	410	1505	565	290

1. Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed.

2. Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.

3. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.

4. Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a Continuous Load Path, connections must be on same side of the wall.


LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 11, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and related warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company, Inc.

T-SPECH20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

TC – Truss Connectors

SIMPSON
Strong-Tie

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1¼". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

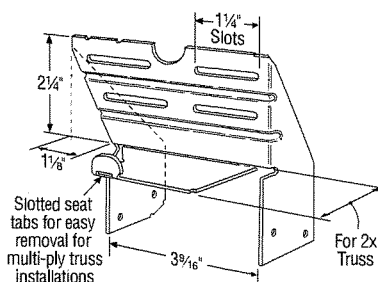
Design: Factored resistances are in accordance with CSA 086-14

Installation:

- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

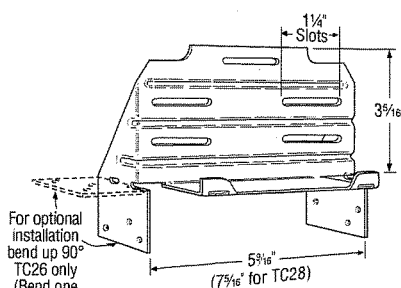
Optional TC Installation:

- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



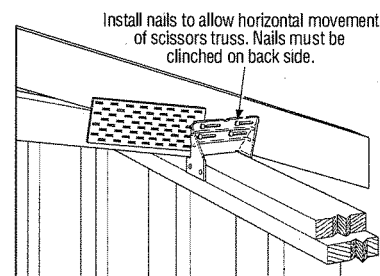
TC24

U.S. Patent 4,932,173

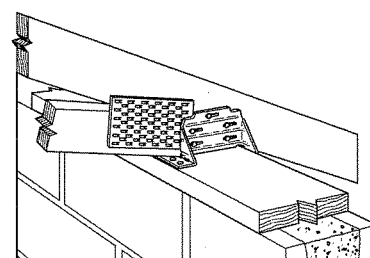


TC26

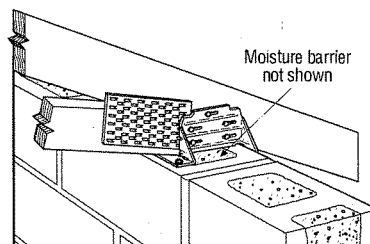
(TC28 Similar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer
(8", 10", 12" Wall Installation Similar)



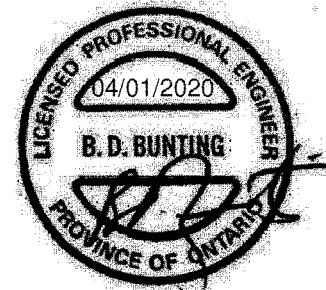
Optional TC26 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(6) 10d	1015	720
TC28	(5) 10d	(6) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC26	(5) 10d	(6) 10d x 1½"	810	660
	(5) 10d	(6) 10d	930	660

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (6) – ¾" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



**LIMIT
STATES
DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and industry warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPEC-TC20 5/20 Exp. 6/22

(800) 999-5099
strongtie.com

HHUS – Double Shear Joist Hangers

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

Material: 14 gauge

Finish: G90 galvanized

Design:

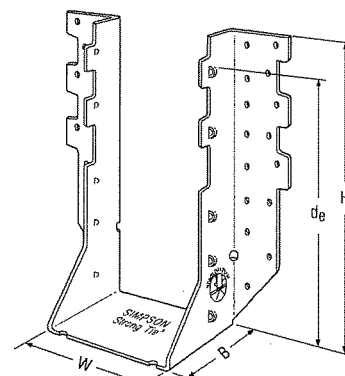
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

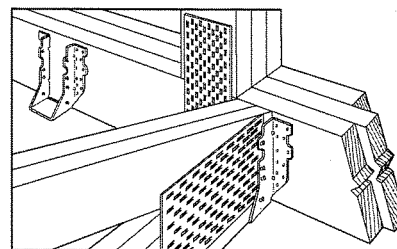
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



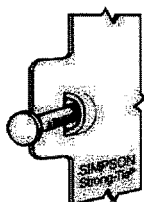
HHUS410



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

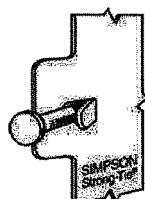
Model No.	Ga.	Dimensions (in.)					Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist		D.Fir-L		S-P-F	
									Uplift (K _p =1.15)	Normal (K _p =1.00)	Uplift (K _p =1.15)	Normal (K _p =1.00)
HHUS26-2	14	3 5/16	5 1/16	3	3 15/16	(14) 16d	(6) 16d		2850	7335	2065	5205
HHUS28-2	14	3 5/16	7 7/32	3	6 5/32	(22) 16d	(8) 16d		3765	8940	2675	6345
HHUS210-2	14	3 5/16	9 3/32	3	8	(30) 16d	(10) 16d		4670	9660	4235	7000
HHUS210-3	14	4 1/16	9	3	7 15/16	(30) 16d	(10) 16d		4670	9670	4235	6865
HHUS210-4	14	6 1/8	8 29/32	3	7 27/32	(30) 16d	(10) 16d		4670	10155	4235	7210
HHUS46	14	3 3/8	5 13/32	3	3 15/16	(14) 16d	(6) 16d		2540	7335	2065	5205
HHUS48	14	3 3/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d		3765	8940	2675	6345
HHUS410	14	3 3/8	9	3	8	(30) 16d	(10) 16d		4670	9855	4235	7000
HHUS5.50/10	14	5 1/2	9	3	8	(30) 16d	(10) 16d		4670	10155	4235	7210
HHUS7.25/10	14	7 1/4	9	3 5/16	7 29/32	(30) 16d	(10) 16d		4670	10155	3370	7210

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

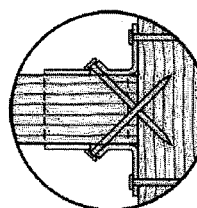


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

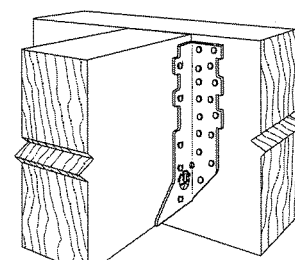
U.S. Patent
5,603,580



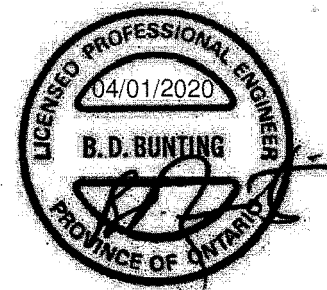
Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



Typical HHUS Installation



**LIMIT
STATES
DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2020 Simpson Strong-Tie Company Inc.

T-SPECHUS20 3/20 exp. 6/22

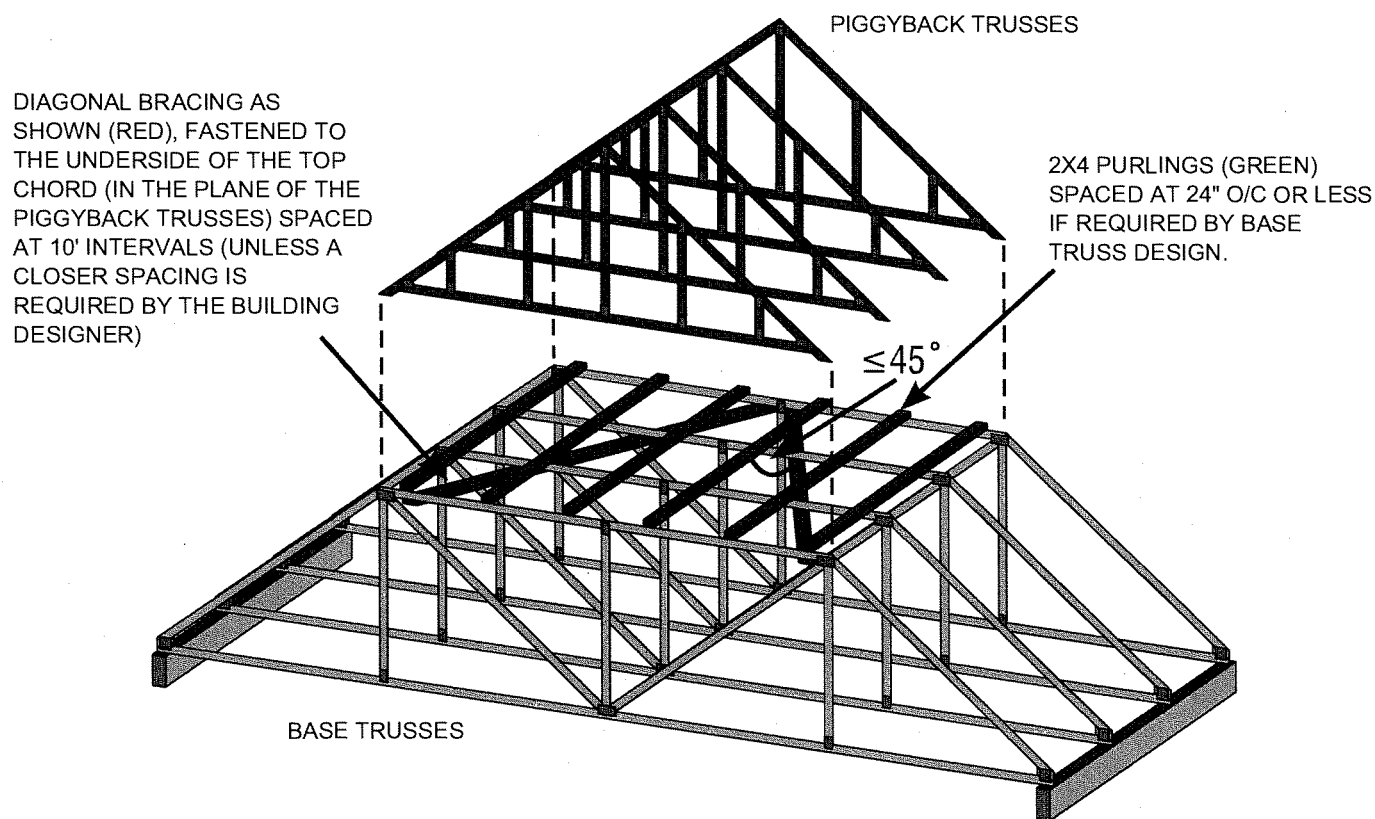
(800) 999-5099
strongtie.com

Overview:

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

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

Detail:



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

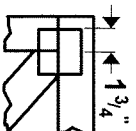
SKETCH FROM BCSI-CANADA 2013

Disclaimer:

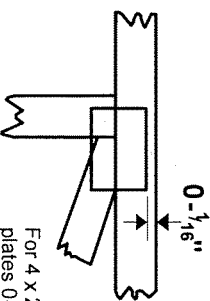
OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in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

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

* Plate location details available in **MiTek 20/20** software or upon request.

PLATE SIZE

4 X 4

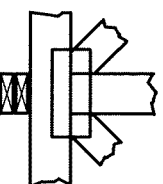
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



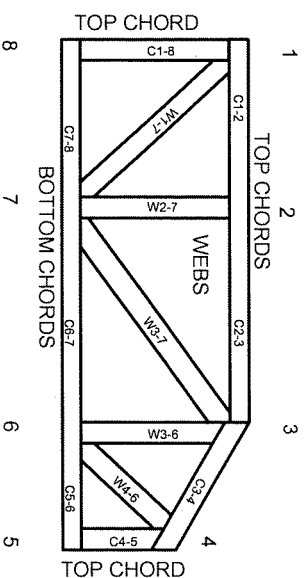
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
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 (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/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

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ESR-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPP1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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 Top 1 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 warps at joint locations are regulated by ANSI/TPP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPP 1.
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 ANSI/TPP 1 Quality Criteria.