



Job Track: **51004**

Plan Log: **203101**

Layout ID: **411090**

Builder / Location:

ROYAL PINE HOMES / RICHMOND HILL CENTREFIELD

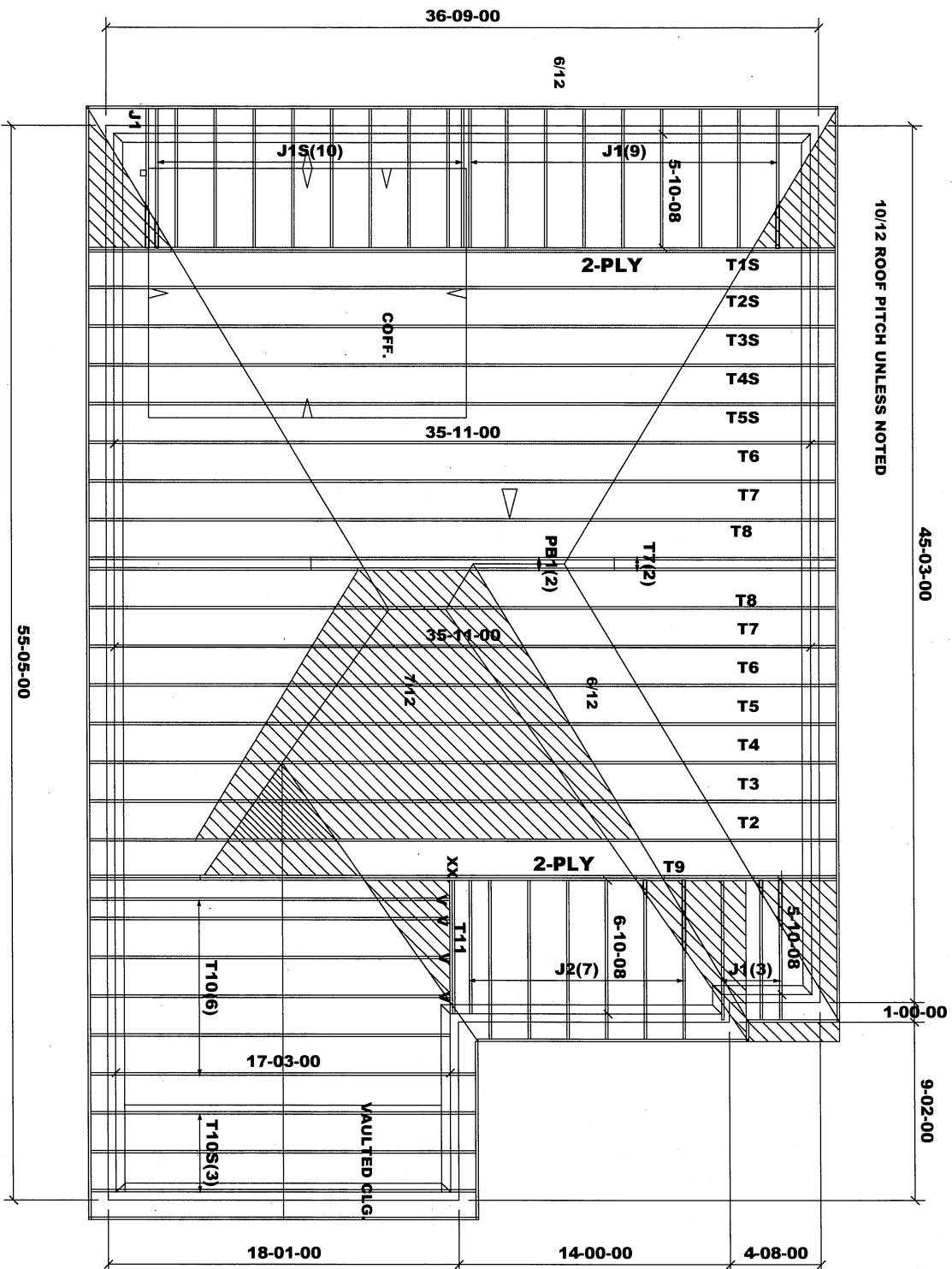
Model / Elevation:

UNIT 4505 / A-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.

Mike ver 8.4.2.28

Mitek ver 8.4.2.286



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

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

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

DESIGN LOADS:

TCSL = 25.6 psf
 TC DL = 6.0 psf
 BC LL = 0.0 psf
 BC DL = 7.4 psf

HARDWARE
LJS26DS - (V)
HGUS26-2 - (XX)

DENOTES:
CONVENTIONAL
FRAMING



TAMARACK
ROOF TRUSSES, INC.

Job Track: **51004**

Plan Log: **203101**

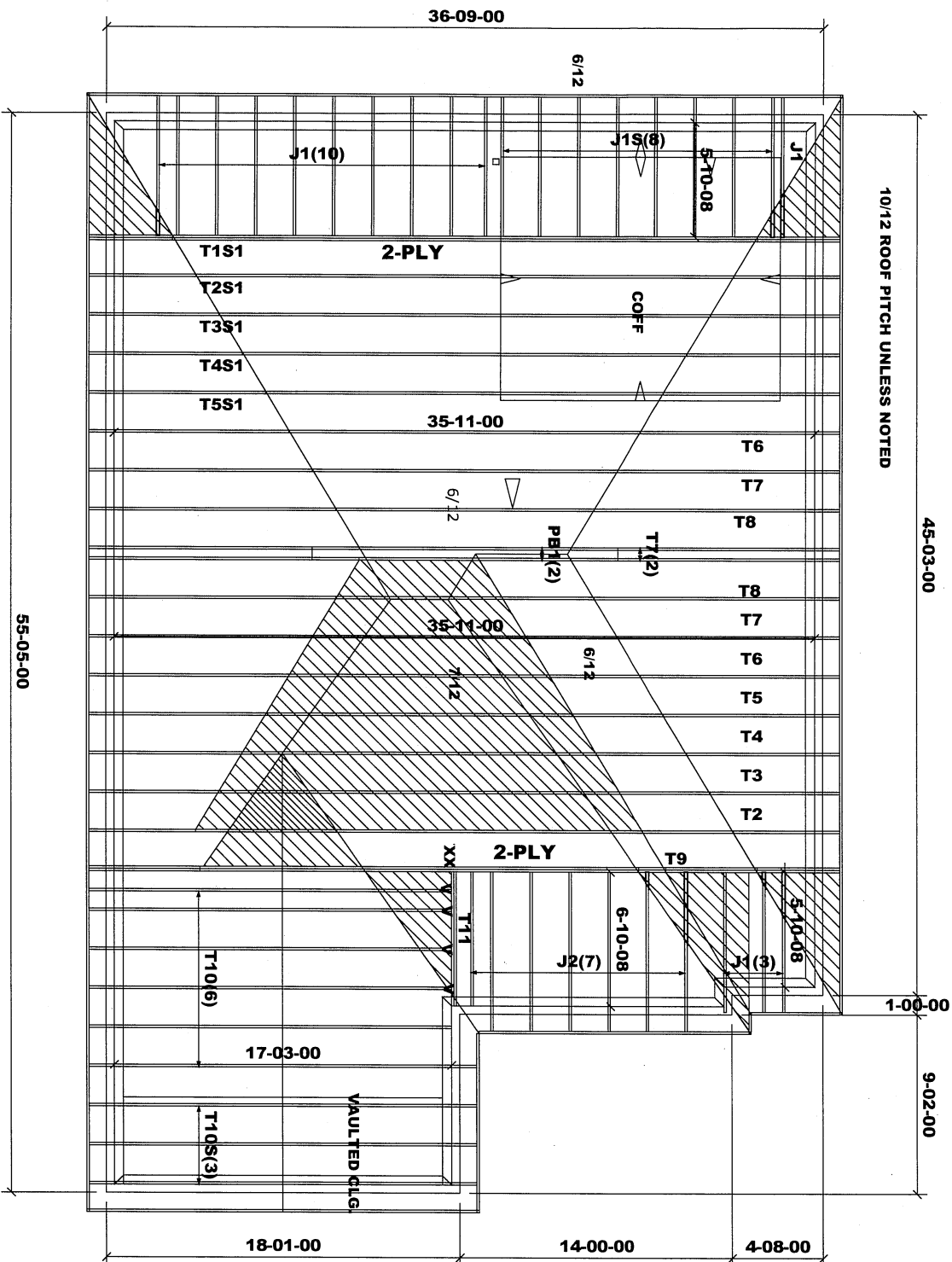
Layout ID: **411091**

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

Model / Elevation:

UNIT 4505 / A-5 BRM WITH OPT.COFF.

Mitok ver 8.4.3 286



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

10/12 ROOF PITCH UNLESS NOTED

45-03-00

9-02-00

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

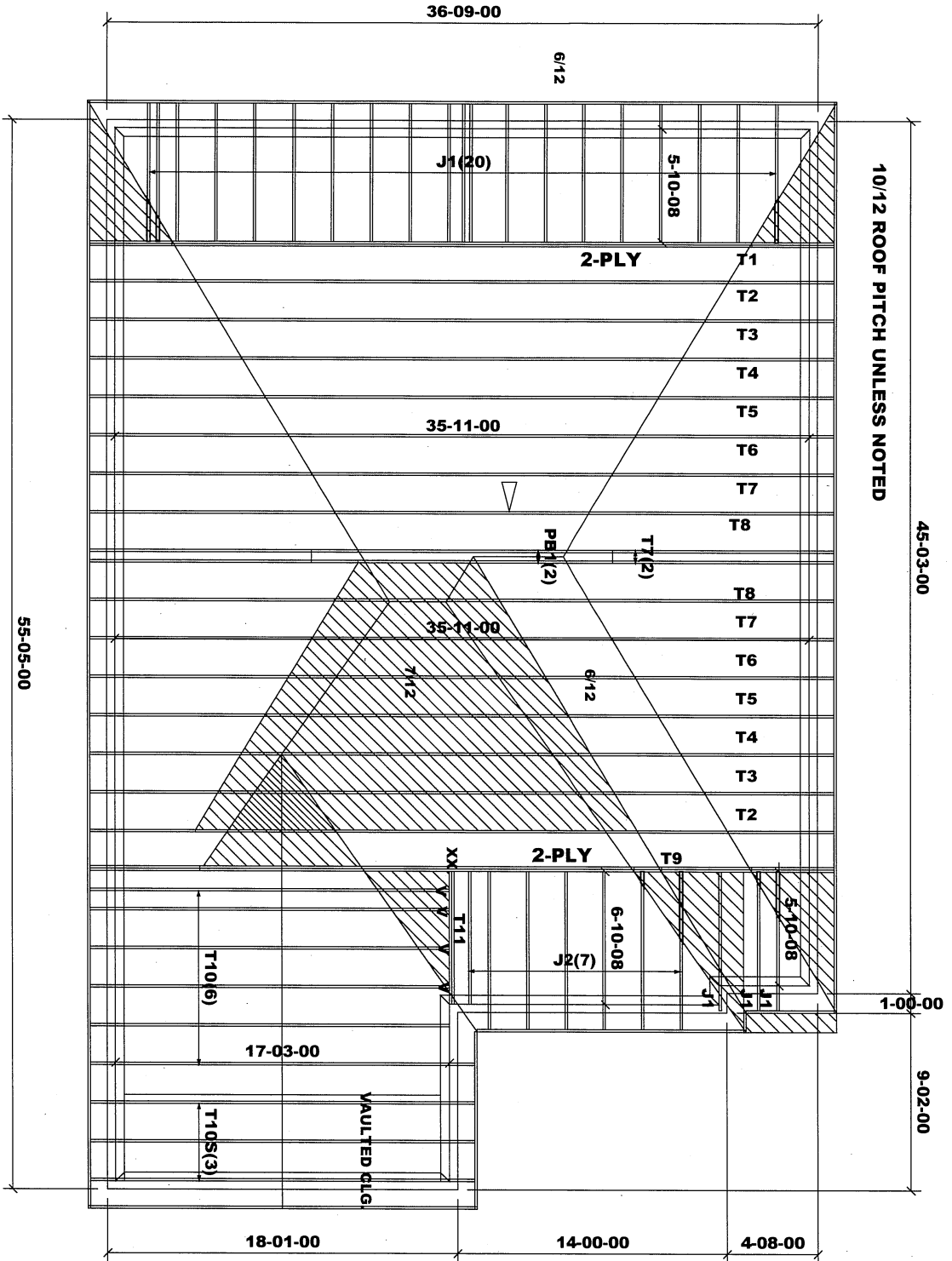
DESIGN LOADS:

TC SL = 25.6 psf
TC DL = 6.0 psf
BC LL = 0.0 psf
BC DL = 7.4 psf

HARDWARE:

LUS24 - (O)
LUS26DS - (W)
LUS26-2 - (VV)
HGUS26-2 - (XX)

 **DENOTES:**
CONVENTIONAL
FRAMING



M14008



Job Track: **51004**
Plan Log: **203101**
Layout ID: **419009**

Builder / Location:
ROYAL PINE HOMES / RICHMOND HILL

Model / Elevation:
UNIT 4505 / A-STD. OR 5 BRM

Project: **CENTREFIELD**
Date: **2021-05-26**
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.
Mtek ver. 8.4.2.286

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

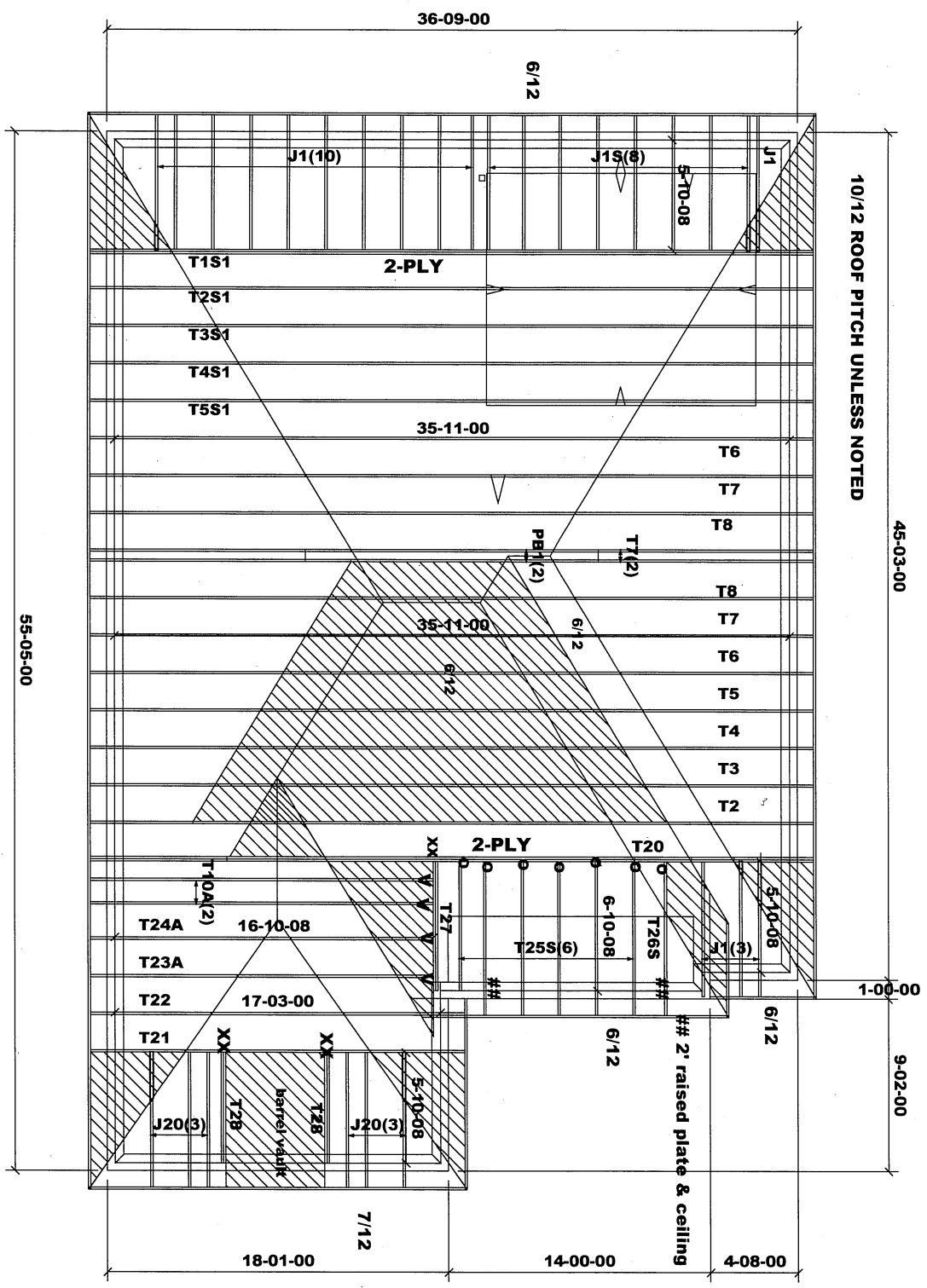
All conventional framing to conform with Part 9 of O.B.C. 2012 (2019 amendment). Roof rafters that cross over or meet trusses to be min. 2x4 SPF #2 @ 24" o/c with a vertical post to the truss at each cross point. Vertical posts longer than 6' to have lateral bracing so that the distance between the post 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
TCOL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

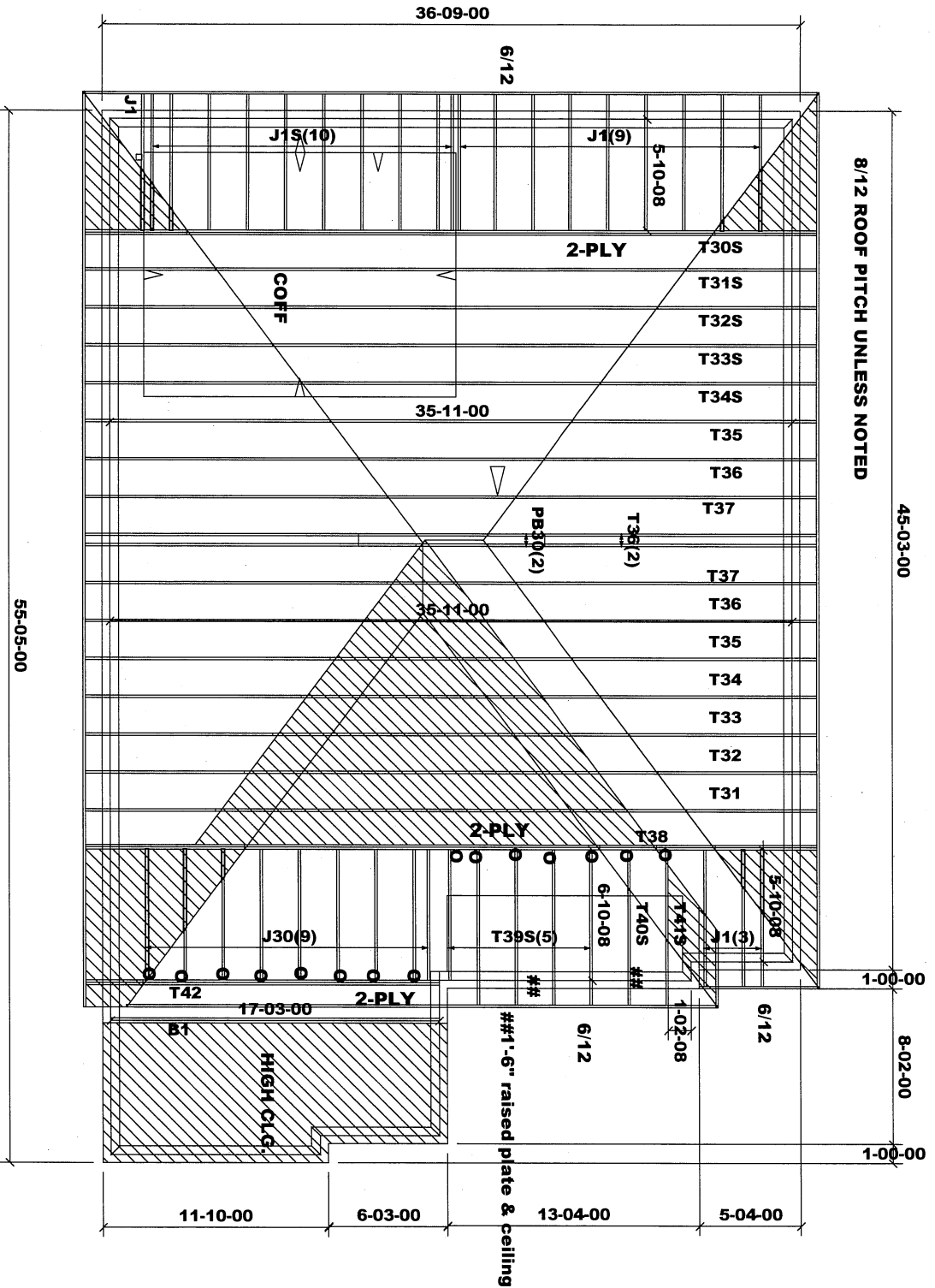
HARDWARE:
LUS24 - (O)
LUS26DS - (V)
LUS26-2 - (VV)
HGUS26-2 - (XX)

 **DENOTES:**
CONVENTIONAL
FRAMING



M14008

 TAMARACK ROOF TRUSSES INC.		Job Track: 51004 Plan Log: 203101 Layout ID: 411092		Builder / Location: ROYAL PINE HOMES / RICHMOND HILL		Model / Elevation: UNIT 4505 / B-5 BRM WITH OPT. COFF.	
Project: CENTREFIELD Date: 2021-05-26		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

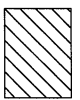
DESIGN LOADS:

TCSL = 25.6 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

HARDWARE:
LUS24 - (0)

BEAMS:

B30 = 2- 1 3/4" x 11" 7/8.
18" in length

 DENOTES:
CONVENTIONAL
FRAMING

M14088



Job Track: 51004
Plan Log: 203101
Layout ID: 411094

Builder / Location:
ROYAL PINE HOMES / RICHMOND HILL

Model / Elevation:
UNIT 4505 / C-STD.WITH OPT.COFF.

Project: CENTREFIELD
Date: 2021-05-27
Sales: Mario DiCiano
Designer: J.G.

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

Milek ver 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'.

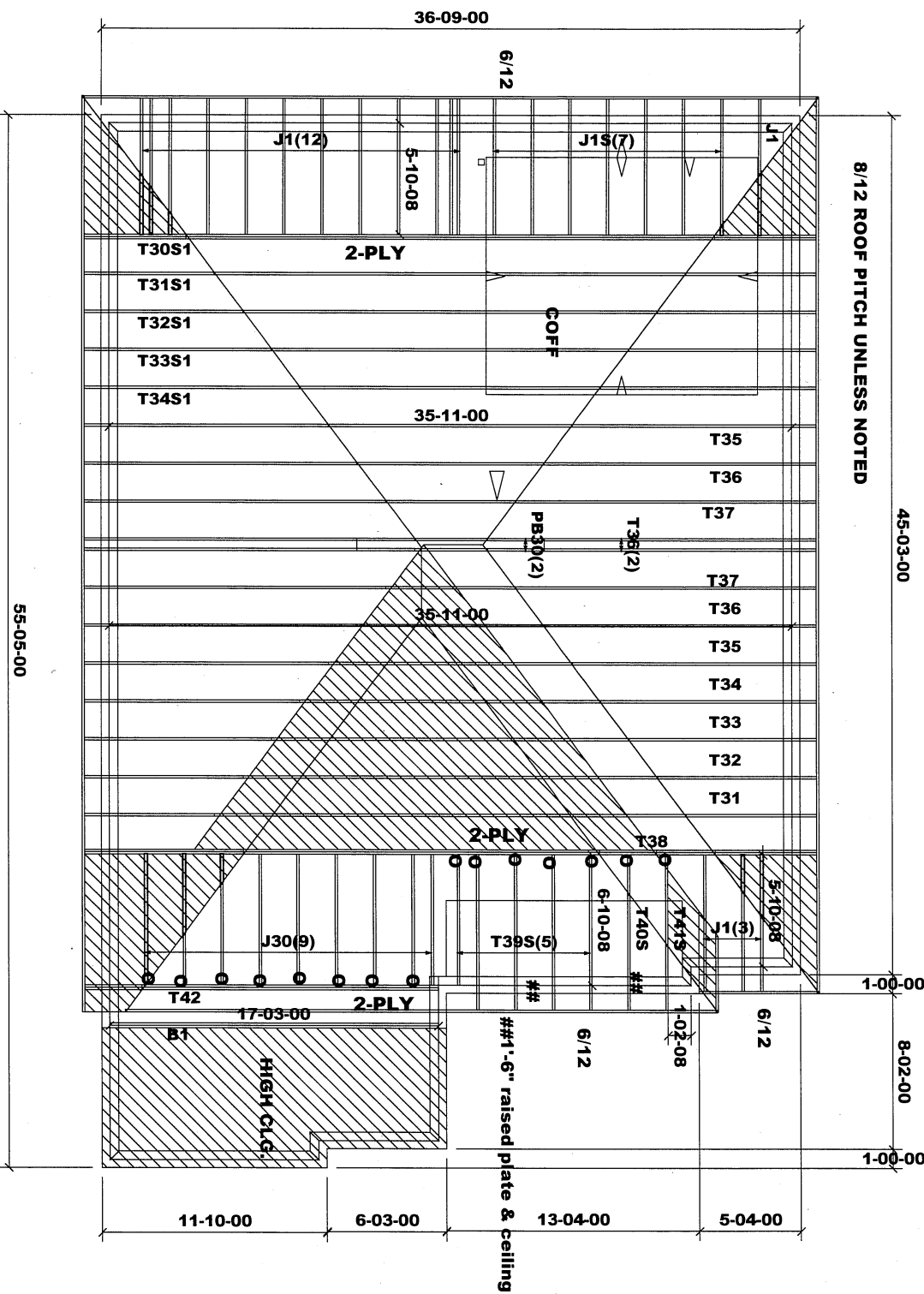
DESIGN CONFORMS WITH OBC 2012 (2019 amendment) OCCUPANCY: RESIDENTIAL | PART: 9
Ss = 31.35 psf | Sr = 8.4 psf

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

HARDWARE:
LUS24 - (O)

BEAMS:
B30 = 2-1 3/4" x 11" 7/8.
18' in length

 DENOTES:
CONVENTIONAL
FRAMING



M14068

		Job Track: 51004 Plan Log: 203101 Layout ID: 411095		Builder / Location: ROYAL PINE HOMES / RICHMOND HILL		Model / Elevation: UNIT 4505 / C-5 BRM WITH OPT. COFF	
Project: CENTREFIELD Date: 2021-05-27		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.			
				Mtek ver 8.4.2.286			



Job Track: **51004**

Plan Log: **203101**

Layout ID: **419011**

Builder / Location: **ROYAL PINE HOMES / RICHMOND HILL**
 Project: **CENTREFIELD**
 Date: **2021-05-27** Sales: **Mario DiCarno** Designer: **JG**
 THESE DRAWINGS ARE FOR REVISION ONLY
 TAAKRAK

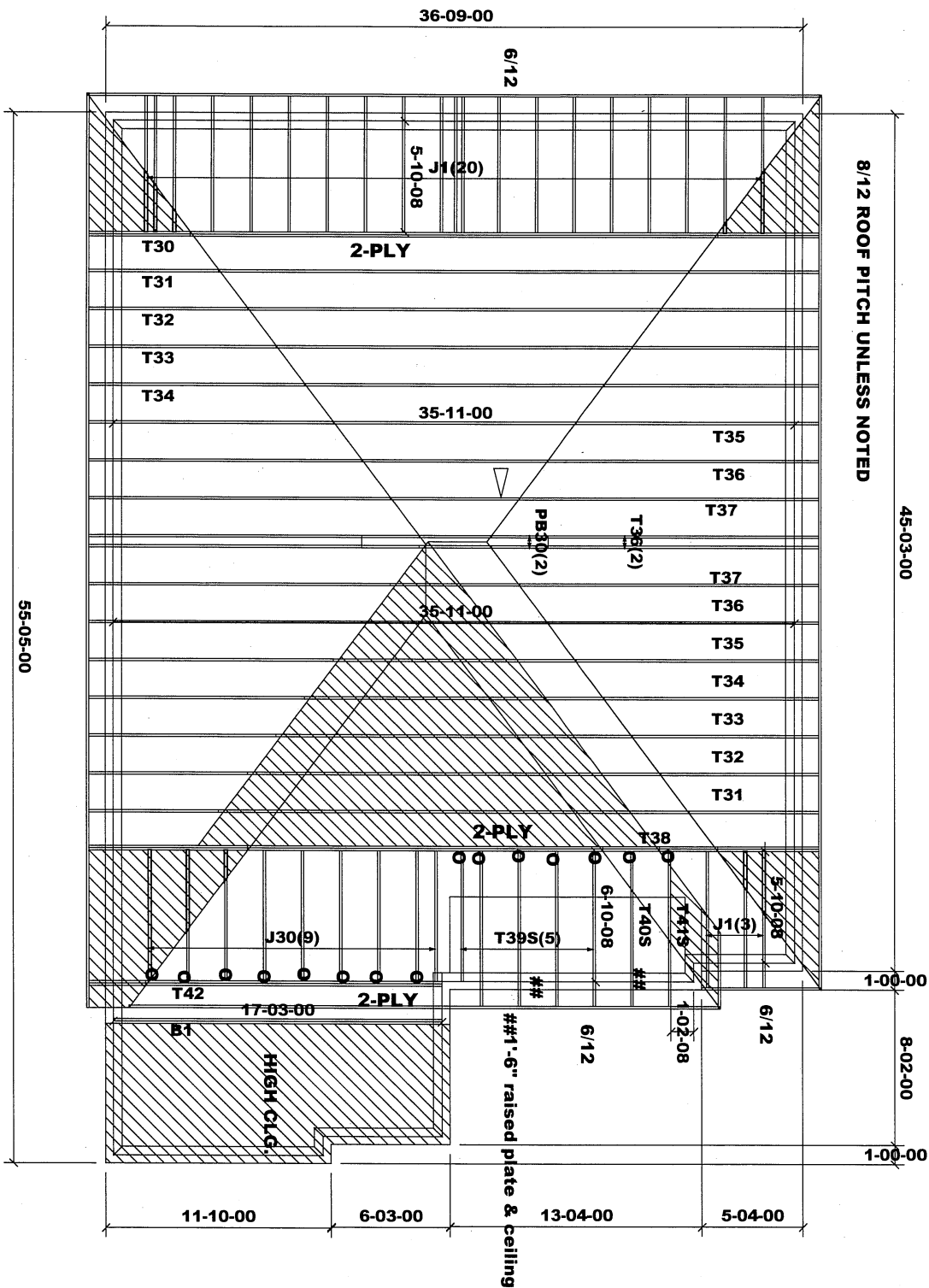
Model / Elevation:

UNIT 4505 / C-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.

Mike, Peter 814 229

Mitek ver 8.4.2.286



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

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

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

DESIGN LOADS:

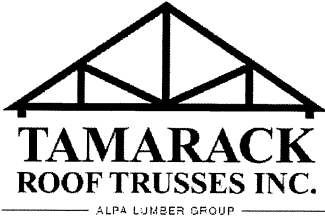
TCSL = 25.6 psf
 TC DL = 6.0 psf
 BCLL = 0.0 psf
 BCDL = 7.4 psf

HARDWARE:
LUS24 - (O)

BEAMS:
B30 = 2- 1 3/4" x 11" 7/8
18' in length

DENOTES:
CONVENTIONAL
FRAMING

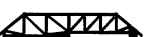
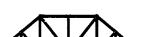
DELIVERY SHIPLIST



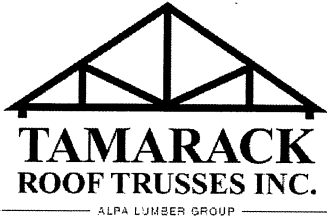
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: A-STD WITH OPT. COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411090
 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	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	419.14 260.67		
	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	161.71 104.50		
	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	166.66 106.83		
	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	166.76 103.83		
	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	172.05 108.50		
	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	165.21 103.00		
	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	180.24 115.17		
	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		
	4	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	702.22 440.00		
	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	5-03-15	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	452.03 276.00		
	6	T10 Common	10 / 12	17-03-00	8-09-15	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	506.44 326.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: A-STD WITH OPT. COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411090
 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
	3	T10S Scissor	10 /12 6 /12	17-03-00	8-09-15	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	229.41 150.50		
	1 2-ply	T11 Jack-Closed Girder	7 /12	6-10-08	5-03-09	2 x 4 2 x 6		1-03-07 5-03-09	70.65 45.00		
	2	PB1 Piggyback	10 /12	15-07-04	2-00-00	2 x 4			95.01 63.33		
	13	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	218.33 138.67		
	10	J1S Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 3-01-04	208.49 146.67		
	7	J2 Jack-Open	7 /12	6-10-08	5-03-09	2 x 4	1-03-08	1-03-07 5-03-09	186.47 119.00		

TOTAL # TRUSS= 63 TOTAL BFT OF ALL TRUSSES= 3264.17 BFT. TOTAL WEIGHT OF ALL TRSSES 5152.12 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
4	Hardware	LJS26DS	

TOTAL NUMBER OF ITEMS= 5

DELIVERY SHIPLIST



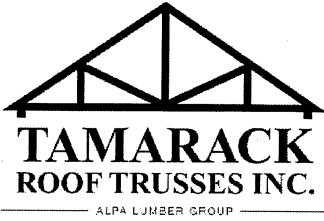
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: A- 5 BRM WITH OPT.COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411091
 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	422.52 266.67		
	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	159.73 102.00		
	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	166.45 106.17		
	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	171.24 109.00		
	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	175.87 111.83		
	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		
	4	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	702.22 440.00		
	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	5-03-15	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	406.46 249.00		
	6	T10 Common	10 / 12	17-03-00	8-09-15	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	506.44 326.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: A- 5 BRM WITH OPT.COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411091
 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
	3	T10S Scissor	10 /12 6 /12	17-03-00	8-09-15	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	229.41 150.50		
	1 2-ply	T11 Jack-Closed Girder	7 /12	6-10-08	5-03-09	2 x 4 2 x 6		1-03-07 5-03-09	70.65 45.00		
	2	PB1 Piggyback	10 /12	15-07-04	2-00-00	2 x 4			95.01 63.33		
	14	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	235.12 149.33		
	8	J1S Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 3-01-04	163.75 117.33		
	7	J2 Jack-Open	7 /12	6-10-08	5-03-09	2 x 4	1-03-08	1-03-07 5-03-09	138.31 84.00		

TOTAL # TRUSS= 62

TOTAL BFT OF ALL TRUSSES= 3179.83

BFT.

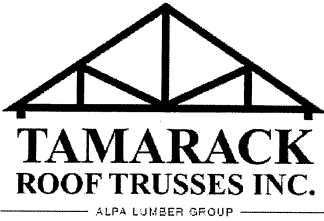
TOTAL WEIGHT OF ALL TRSSES 5019.71 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
4	Hardware	LJS26DS	

TOTAL NUMBER OF ITEMS= 5

DELIVERY SHIPLIST

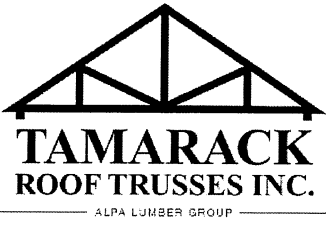


Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: A- STD. OR 5 BRM

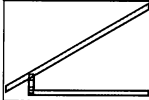
Job Track: 51004
 PlanLog: 203101
 Layout ID: 419009
 Ref #
 Page: 1 of 2
 Date: 05-26-2021
 Designer:
 Sales Rep: Mario DiCano

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	405.42 241.33		
	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		
	4	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	702.22 440.00		
	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	5-03-15	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	406.46 249.00		
	6	T10 Common	10 /12	17-03-00	8-09-15	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	506.44 326.00		
	3	T10S Scissor	10 /12 6 /12	17-03-00	8-09-15	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	229.41 150.50		
	1 2-ply	T11 Jack-Closed Girder	7 /12	6-10-08	5-03-09	2 x 4 2 x 6		1-03-07 5-03-09	70.65 45.00		
	2	PB1 Piggyback	10 /12	15-07-04	2-00-00	2 x 4			95.01 63.33		
	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		

 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4505 Lot #: Elevation: A- STD. OR 5 BRM	Job Track: 51004 PlanLog: 203101 Layout ID: 419009 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
	7	J2 Jack-Open	7 /12	6-10-08	5-03-09	2 x 4	1-03-08	1-03-07 5-03-09	138.31 84.00		

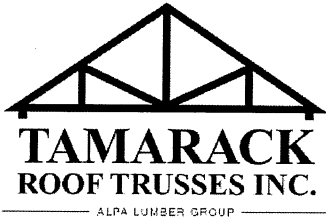
TOTAL # TRUSS= 63 TOTAL BFT OF ALL TRUSSES= 3095.82 BFT. TOTAL WEIGHT OF ALL TRSSES 4941.24 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
4	Hardware	LJS26DS	
1	Hardware	HGUS26-2	

TOTAL NUMBER OF ITEMS= 5

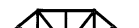
DELIVERY SHIPLIST



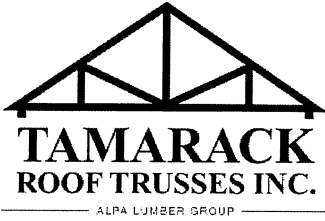
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: B- 5 BRM WITH OPT. COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411092
 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	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	392.09 248.33		
	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	159.33 101.67		
	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	166.05 105.83		
	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	171.24 109.00		
	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	176.18 112.33		
	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		
	4	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	702.22 440.00		
	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		
	2	T10A Common	10 /12	16-10-08	8-09-15	2 x 4	1-03-08	1-07-11 1-07-11	163.33 102.33		
	1 2-ply	T20 Roof Special Girder	10 /12	35-11-00	6-07-04	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	368.01 225.33		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: B- 5 BRM WITH OPT. COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411092
 Ref #
 Page: 2 of 3
 Date: 05-26-2021
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

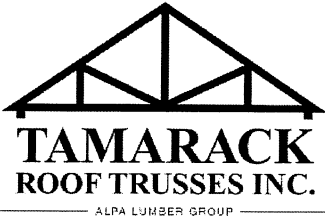
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T21 Hip Girder	10 / 12	17-03-00	4-08-15	2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	101.19 60.00		
	1	T22 Hip	10 / 12	17-03-00	5-10-09	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	76.87 50.00		
	1	T23A Hip	10 / 12	16-10-08	7-00-09	2 x 4	1-03-08	1-07-11 1-11-07	80.59 51.67		
	1	T24A Hip	10 / 12	16-10-08	8-02-09	2 x 4	1-03-08	1-07-11 1-11-07	80.9 52.33		
	6	T25S Jack-Closed	6 / 12	6-10-08	6-07-04	2 x 4	1-03-08	1-02-00 6-07-04	249.48 159.00		
	1	T26S Half Hip	6 / 12	6-10-08	5-02-07	2 x 4	1-03-08	1-02-00 5-02-07	38.76 25.33		
	1 2-ply	T27 Jack-Closed Girder	6 / 12	6-10-08	6-07-04	2 x 4 2 x 6		3-02-00 6-07-04	83.13 51.67		
	2 2-ply	T28 Jack-Closed	7 / 12	5-10-08	4-08-09	2 x 4 2 x 6		1-03-07 4-08-09	121.81 76.00		
	2	PB1 Piggyback	10 / 12	15-07-04	2-00-00	2 x 4			95.01 63.33		
	14	J1 Jack-Open	6 / 12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	235.12 149.33		
	8	J1S Jack-Open	6 / 12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 3-01-04	177.9 128.00		
	6	J20 Jack-Open	7 / 12	5-10-08	4-08-09	2 x 4	1-03-08	1-03-07 4-08-09	103.78 64.00		

TOTAL # TRUSS= 69 TOTAL BFT OF ALL TRUSSES= 3235.15 BFT. TOTAL WEIGHT OF ALL TRSSES 5119.55 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
4	Hardware	LJS26DS	

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: B- 5 BRM WITH OPT. COFF.

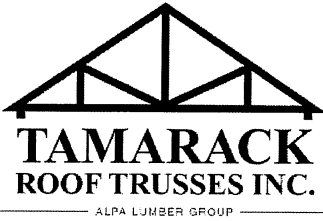
Job Track: 51004
 PlanLog: 203101
 Layout ID: 411092
 Ref #
 Page: 3 of 3
 Date: 05-26-2021
 Designer:
 Sales Rep: Mario DiCano

HARDWARE

QTY	TYPE	MODEL	LENGTH
7	Hardware	LUS24	
2	Hardware	LUS26-2	

TOTAL NUMBER OF ITEMS= 14

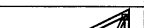
DELIVERY SHIPLIST



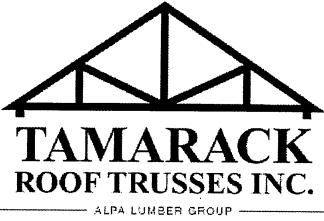
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: C- STD.WITH OPT.COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411094
 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	T30S Hip Girder	8 /12	35-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	408.62 249.33		
	1	T31 Hip	8 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	142.07 88.50		
	1	T31S Hip	8 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	159.12 100.83		
	1	T32 Hip	8 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	153.51 95.67		
	1	T32S Hip	8 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	159.6 100.50		
	1	T33 Hip	8 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	156.68 97.83		
	1	T33S Hip	8 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	171.18 108.67		
	1	T34 Hip	8 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	160.7 98.33		
	1	T34S Hip	8 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	174.69 109.67		
	2	T35 Hip	8 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	333.65 205.00		
	4	T36 Hip	8 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	694.63 430.67		
	2	T37 Hip	8 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	358.95 221.33		
	1 2-ply	T38 Roof Special Girder	8 /12	35-11-00	6-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	354.83 222.00		
	5	T39S Jack-Closed	6 /12	6-10-08	6-01-04	2 x 4	1-03-08	1-02-00 6-01-04	200.65 135.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: C- STD.WITH OPT.COFF.

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411094
 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	T40S Half Hip	6 /12	6-10-08	5-00-08	2 x 4	1-03-08	1-02-00 5-00-08	38.28 25.83		
	1	T41S Half Hip	6 /12	6-10-08	3-08-08	2 x 4	1-03-08	1-02-00 3-08-08	35.48 24.33		
	1 2-ply	T42 Half Hip Girder	8 /12	17-03-00	2-03-08	2 x 4 2 x 6	1-03-08	1-04-13 2-03-08	146.3 92.67		
	2	PB30 Piggyback	8 /12	9-09-11	2-00-00	2 x 4			54.22 36.00		
	13	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	218.33 138.67		
	10	J1S Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 3-01-04	208.52 146.67		
	9	J30 Jack-Open	6 /12	6-10-08	6-01-04	2 x 4		2-08-00 6-01-04	247.08 157.50		

TOTAL # TRUSS= 63

TOTAL BFT OF ALL TRUSSES= 2885

BFT.

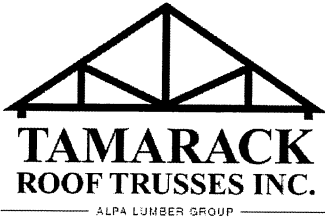
TOTAL WEIGHT OF ALL TRSSES 4577.08 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
2	Rectangular EWP	1 3/4" x 11 7/8" (2.0E 3100) LVL	18-00-00
15	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 17

DELIVERY SHIPLIST



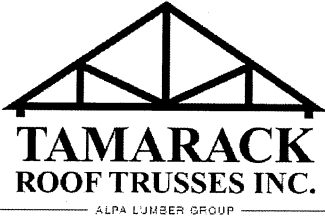
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: C-5 BRM WITH OPT.COFF

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411095
 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	T30S1 Hip Girder	8 /12	35-11-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	412.13 254.00		
	1	T31 Hip	8 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	142.07 88.50		
	1	T31S1 Hip	8 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	155.63 98.83		
	1	T32 Hip	8 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	153.51 95.67		
	1	T32S1 Hip	8 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	165.88 105.83		
	1	T33 Hip	8 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	156.68 97.83		
	1	T33S1 Hip	8 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	168.37 106.67		
	1	T34 Hip	8 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	160.7 98.33		
	1	T34S1 Hip	8 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	173.84 108.50		
	2	T35 Hip	8 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	333.65 205.00		
	4	T36 Hip	8 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	694.63 430.67		
	2	T37 Hip	8 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	358.95 221.33		
	1 2-ply	T38 Roof Special Girder	8 /12	35-11-00	6-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	354.83 222.00		
	5	T39S Jack-Closed	6 /12	6-10-08	6-01-04	2 x 4	1-03-08	1-02-00 6-01-04	200.65 135.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: C-5 BRM WITH OPT.COFF

Job Track: 51004
 PlanLog: 203101
 Layout ID: 411095
 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	T40S Half Hip	6 /12	6-10-08	5-00-08	2 x 4	1-03-08	1-02-00 5-00-08	38.28 25.83		
	1	T41S Half Hip	6 /12	6-10-08	3-08-08	2 x 4	1-03-08	1-02-00 3-08-08	35.48 24.33		
	1 2-ply	T42 Half Hip Girder	8 /12	17-03-00	2-03-08	2 x 4 2 x 6	1-03-08	1-04-13 2-03-08	146.3 92.67		
	2	PB30 Piggyback	8 /12	9-09-11	2-00-00	2 x 4			54.22 36.00		
	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	145.96 102.67		
	9	J30 Jack-Open	6 /12	6-10-08	6-01-04	2 x 4		2-08-00 6-01-04	247.08 157.50		

TOTAL # TRUSS= 63

TOTAL BFT OF ALL TRUSSES= 2877.83

BFT.

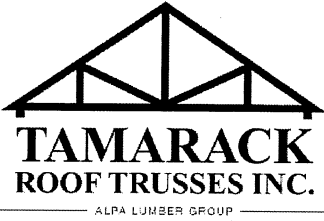
TOTAL WEIGHT OF ALL TRSSES 4567.57 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
15	Hardware	LUS24	
2	Rectangular EWP	1 3/4" x 11 7/8" (2.0E 3100) LVL	18-00-00

TOTAL NUMBER OF ITEMS= 17

DELIVERY SHIPLIST

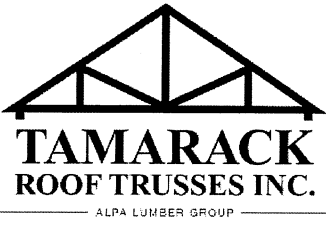


Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: CENTREFIELD
 Location: RICHMOND HILL
 Model: UNIT 4505
 Lot #:
 Elevation: C- STD. OR 5 BRM

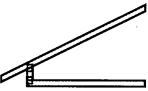
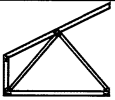
Job Track: 51004
 PlanLog: 203101
 Layout ID: 419011
 Ref #
 Page: 1 of 2
 Date: 05-26-2021
 Designer:
 Sales Rep: Mario DiCano

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	T30 Hip Girder	8 /12	35-11-00	4-01-06	2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	367.81 220.00		
	2	T31 Hip	8 /12	35-11-00	5-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	284.14 177.00		
	2	T32 Hip	8 /12	35-11-00	6-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	307.02 191.33		
	2	T33 Hip	8 /12	35-11-00	7-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	313.37 195.67		
	2	T34 Hip	8 /12	35-11-00	8-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	321.4 196.67		
	2	T35 Hip	8 /12	35-11-00	9-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	333.65 205.00		
	4	T36 Hip	8 /12	35-11-00	10-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	694.63 430.67		
	2	T37 Hip	8 /12	35-11-00	11-01-04	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	358.95 221.33		
	1 2-ply	T38 Roof Special Girder	8 /12	35-11-00	6-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	354.83 222.00		
	5	T39S Jack-Closed	6 /12	6-10-08	6-01-04	2 x 4	1-03-08	1-02-00 6-01-04	200.65 135.00		
	1	T40S Half Hip	6 /12	6-10-08	5-00-08	2 x 4	1-03-08	1-02-00 5-00-08	38.28 25.83		
	1	T41S Half Hip	6 /12	6-10-08	3-08-08	2 x 4	1-03-08	1-02-00 3-08-08	35.48 24.33		
	1 2-ply	T42 Half Hip Girder	8 /12	17-03-00	2-03-08	2 x 4 2 x 6	1-03-08	1-04-13 2-03-08	146.3 92.67		
	2	PB30 Piggyback	8 /12	9-09-11	2-00-00	2 x 4			54.22 36.00		

 TAMARACK ROOF TRUSSES INC. ALPHA LUMBER GROUP	DELIVERY SHIPLIST	
	Lumber Yard: TAMARACK LUMBER Builder: ROYAL PINE HOMES Project: CENTREFIELD Location: RICHMOND HILL Model: UNIT 4505 Lot #: Elevation: C- STD. OR 5 BRM	Job Track: 51004 PlanLog: 203101 Layout ID: 419011 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
	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		
	9	J30 Jack-Open	6 /12	6-10-08	6-01-04	2 x 4		2-08-00 6-01-04	247.08 157.50		

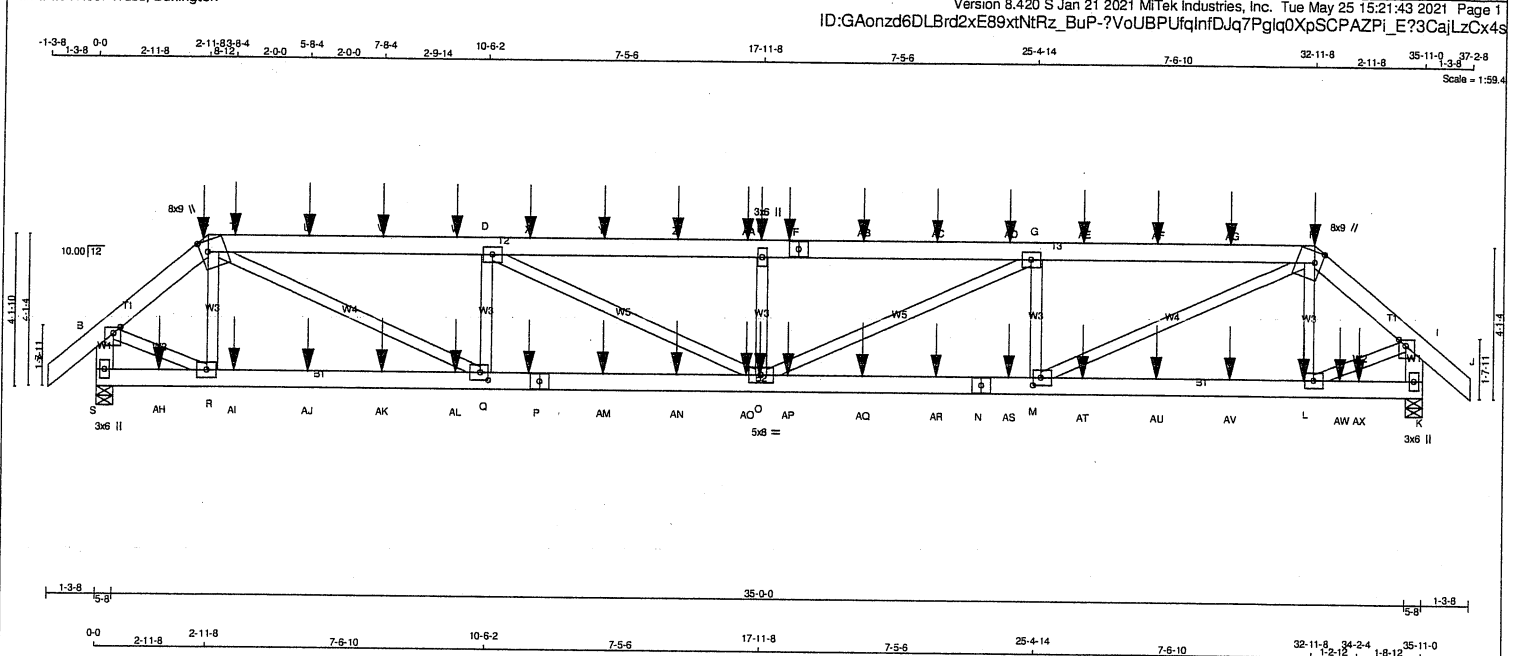
TOTAL # TRUSSES= 63 TOTAL BFT OF ALL TRUSSES= 2776.33 BFT. TOTAL WEIGHT OF ALL TRSSES 4444.08 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
15	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 15

JOB NAME: 419009 TRUSS NAME: T1 QUANTITY: 1 PLY: 2 JOB DESC.: ROYAL PINE HOMES TRUSS DESC.: DRWG NO.:



LUMBER

N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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 EXCEPT	2x4	DRY	No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A-C 2 12 SIDE(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 PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
S	3527	0	3527	0
K	3576	0	3576	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
S	2493 1642 / 0 0 / 0 0 / 0 851 / 0 0 / 0
K	2531 1651 / 0 0 / 0 0 / 0 880 / 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 = 3.75 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					FR-TO			
A-B	0 / 42	-91.8	-91.8	0.04 (1)	10.00	R-C	-728 / 0	0.06 (1)
B-C	-3567 / 0	-91.8	-91.8	0.05 (1)	5.90	C-Q	0 / 4995	0.44 (1)
C-T	-7202 / 0	-91.8	-91.8	0.43 (1)	4.11	Q-D	-1946 / 0	0.17 (1)
T-U	-7202 / 0	-91.8	-91.8	0.43 (1)	4.11	D-O	0 / 1665	0.15 (1)
U-V	-7202 / 0	-91.8	-91.8	0.43 (1)	4.11	O-E	-1177 / 0	0.10 (1)
V-W	-7202 / 0	-91.8	-91.8	0.43 (1)	4.11	O-G	0 / 1652	0.15 (1)
W-D	-7202 / 0	-91.8	-91.8	0.43 (1)	4.11	M-G	-1935 / 0	0.17 (1)
D-X	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75	M-H	0 / 4969	0.44 (1)
X-Y	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75	L-H	-714 / 0	0.06 (1)
Y-Z	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75	B-R	0 / 2895	0.26 (1)
Z-AA	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75	L-I	0 / 2931	0.26 (1)
AA-E	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75			
E-F	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75			
F-AB	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75			
AB-AC	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75			
AC-AD	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75			
AD-G	-8697 / 0	-91.8	-91.8	0.48 (1)	3.75			
G-AE	-7213 / 0	-91.8	-91.8	0.43 (1)	4.11			
AE-AF	-7213 / 0	-91.8	-91.8	0.43 (1)	4.11			
AF-AG	-7213 / 0	-91.8	-91.8	0.43 (1)	4.11			
AG-H	-7213 / 0	-91.8	-91.8	0.43 (1)	4.11			
H-I	-3612 / 0	-91.8	-91.8	0.05 (1)	5.87			
I-J	0 / 42	-91.8	-91.8	0.04 (1)	10.00			
S-B	-3548 / 0	0.0	0.0	0.13 (1)	7.44			
K-I	-3589 / 0	0.0	0.0	0.13 (1)	7.41			
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-AI	0 / 2695	-18.5	-18.5	0.24 (1)	10.00			
AI-AJ	0 / 2695	-18.5	-18.5	0.24 (1)	10.00			
AJ-AK	0 / 2695	-18.5	-18.5	0.24 (1)	10.00			
AK-AL	0 / 2695	-18.5	-18.5	0.24 (1)	10.00			
AL-Q	0 / 2695	-18.5	-18.5	0.24 (1)	10.00			
Q-P	0 / 7202	-18.5	-18.5	0.54 (1)	10.00			
P-AM	0 / 7202	-18.5	-18.5	0.54 (1)	10.00			
AM-AN	0 / 7202	-18.5	-18.5	0.54 (1)	10.00			
AN-AO	0 / 7202	-18.5	-18.5	0.54 (1)	10.00			
AO-O	0 / 7202	-18.5	-18.5	0.54 (1)	10.00			
O-AP	0 / 7213	-18.5	-18.5	0.54 (1)	10.00			
AP-AQ	0 / 7213	-18.5	-18.5	0.54 (1)	10.00			
AQ-AR	0 / 7213	-18.5	-18.5	0.54 (1)	10.00			
AR-N	0 / 7213	-18.5	-18.5	0.54 (1)	10.00			
N-AS	0 / 7213	-18.5	-18.5	0.54 (1)	10.00			

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***

GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.

LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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)= U/999 (0.22")

ALLOWABLE DEFL.(TL)= L/360 (1.20")

CALCULATED VERT. DEFL.(TL)= U/999 (0.41")

CSI: TC=0.48/1.00 (D-E-I), BC=0.54/1.00 (O-Q-I), WB=0.44/1.00 (C-Q-I), SSI=0.22/1.00 (C-D-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (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 (C) (INPUT = 0.90)

JSI METAL= 0.67 (P) (INPUT = 1.00)



Structural component only

DWG# T-2115604

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
419009	T1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.25
C	TTWW+m	MT20	8.0	9.0	3.50	2.25
D	TMVW-t	MT20	5.0	6.0		
E	TMVW-w	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMVW-t	MT20	5.0	6.0		
H	TTWW+m	MT20	8.0	9.0	3.50	2.25
I	TMVW+p	MT20	5.0	6.0	2.00	2.25
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	2.50
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	2.50
R	BMVW-t	MT20	5.0	6.0		
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 (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH FR-TO
FR-TO		FROM TO					
AS-M	0 / 7213	-18.5	-18.5 0.54 (1)	10.00			
M-AT	0 / 2730	-18.5	-18.5 0.25 (1)	10.00			
AT-AU	0 / 2730	-18.5	-18.5 0.25 (1)	10.00			
AU-AV	0 / 2730	-18.5	-18.5 0.25 (1)	10.00			
AV-L	0 / 2730	-18.5	-18.5 0.25 (1)	10.00			
L-AW	0 / 0	-18.5	-18.5 0.08 (4)	10.00			
AW-AX	0 / 0	-18.5	-18.5 0.08 (4)	10.00			
AX-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	17-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
F	18-8-4	-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
O	17-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
P	11-8-4	-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	17-6-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AB	20-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AC	22-8-4	-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	13-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AN	15-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AO	17-6-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AP	18-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AQ	20-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AR	22-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AS	24-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AT	26-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AU	28-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AV	30-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AW	33-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AX	34-2-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

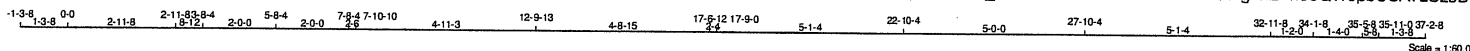
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2115604

JOB NAME 411090	TRUSS NAME T1S	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(61.0)
H-K	12	SIDE(61.0)
C-F	12	SIDE(183.1)
F-H	2	SIDE(61.0)
W-B	2	TOP
L-J	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W-U	2	SIDE(0.0)
U-S	2	SIDE(122.0)
R-P	2	SIDE(0.0)
P-N	2	SIDE(61.0)
M-L	2	TOP
S-E	1	TOP
I-M	1	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		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
W	3706	0	0	3706	0	0	5-8	5-8	5-8
L	4044	0	0	4044	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
W	2620	1723 / 0	0 / 0	0 / 0	0 / 0
L	2862	1868 / 0	0 / 0	0 / 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 = 2.94 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		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 41	-91.8	-91.8	0.07 (1)	10.00	V-C	-974 / 0 0.09 (1)
B-C	-3558 / 0	-91.8	-91.8	0.12 (1)	4.88	C-T	0 / 5321 0.47 (1)
C-X	-7505 / 0	-91.8	-91.8	0.44 (1)	4.02	T-D	-3170 / 0 0.27 (1)
X-Y	-7505 / 0	-91.8	-91.8	0.44 (1)	4.02	T-R	0 / 7280 0.47 (1)
Y-Z	-7505 / 0	-91.8	-91.8	0.44 (1)	4.02	D-R	0 / 5620 0.50 (1)
Z-AA	-7505 / 0	-91.8	-91.8	0.44 (1)	4.02	Q-G	-1947 / 0 0.13 (1)
AA-D	-7505 / 0	-91.8	-91.8	0.44 (1)	4.02	Q-H	0 / 7320 0.65 (1)
D-AB	-12951 / 0	-91.8	-91.8	0.71 (1)	2.94	O-H	0 / 237 0.03 (4)
AB-AC	-12951 / 0	-91.8	-91.8	0.71 (1)	2.94	O-I	0 / 503 0.04 (1)
AC-AD	-12951 / 0	-91.8	-91.8	0.71 (1)	2.94	B-V	0 / 2990 0.26 (1)
AD-E	-12951 / 0	-91.8	-91.8	0.71 (1)	2.94	N-L	-134 / 0 0.01 (1)
E-AE	-13118 / 0	-91.8	-91.8	0.69 (1)	2.97	N-J	0 / 3911 0.35 (1)
AE-F	-13118 / 0	-91.8	-91.8	0.69 (1)	2.97	R-G	0 / 2071 0.18 (1)
F-AF	-13118 / 0	-91.8	-91.8	0.69 (1)	2.97		
AF-AG	-13118 / 0	-91.8	-91.8	0.69 (1)	2.97		
AG-AH	-13118 / 0	-91.8	-91.8	0.69 (1)	2.97		
AH-G	-13118 / 0	-91.8	-91.8	0.69 (1)	2.97		
G-AI	-11158 / 0	-91.8	-91.8	0.57 (1)	3.30		
AI-AJ	-11158 / 0	-91.8	-91.8	0.57 (1)	3.30		
AJ-AK	-11158 / 0	-91.8	-91.8	0.57 (1)	3.30		
AK-H	-11158 / 0	-91.8	-91.8	0.57 (1)	3.30		
H-I	-5466 / 0	-91.8	-91.8	0.16 (1)	4.04		
I-J	-5130 / 0	-91.8	-91.8	0.15 (1)	4.16		
J-K	0 / 41	-91.8	-91.8	0.07 (1)	10.00		
W-B	-3721 / 0	0.0	0.0	0.14 (1)	7.31		
L-J	-3957 / 0	0.0	0.0	0.15 (1)	7.13		
W-AL	0 / 0	-18.5	-18.5	0.07 (4)	10.00		
AL-V	0 / 0	-18.5	-18.5	0.07 (4)	10.00		
V-AM	0 / 2781	-18.5	-18.5	0.23 (1)	10.00		
AM-AN	0 / 2781	-18.5	-18.5	0.23 (1)	10.00		
AN-U	0 / 2781	-18.5	-18.5	0.23 (1)	10.00		
U-AO	0 / 2781	-18.5	-18.5	0.23 (1)	10.00		
AO-T	0 / 2781	-18.5	-18.5	0.23 (1)	10.00		
T-AP	0 / 442	-18.5	-18.5	0.12 (4)	10.00		
AP-AQ	0 / 442	-18.5	-18.5	0.12 (4)	10.00		
AQ-AR	0 / 442	-18.5	-18.5	0.12 (4)	10.00		
AR-S	0 / 442	-18.5	-18.5	0.12 (4)	10.00		
S-R	0 / 138	0.0	0.0	0.34 (1)	10.00		
R-E	-1139 / 0	0.0	0.0	0.34 (1)	7.81		
R-AS	0 / 11157	-18.5	-18.5	0.90 (1)	10.00		
AS-AT	0 / 11157	-18.5	-18.5	0.90 (1)	10.00		
AT-AU	0 / 11157	-18.5	-18.5	0.90 (1)	10.00		

DESIGN CRITERIA

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

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

SPACING = 24.0 IN./C

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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC0 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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.41")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/557 (0.77")

CSI: TC=0.71/1.00 (D-E-1), BC=0.90/1.00 (Q-R-1), WB=0.65/1.00 (H-Q-1), SSI=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)
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-2115546

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T1S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-e8JlImkEhFbW7LeMPZQLng7hLVn58QWopbCCA7zCz8D

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	6.0	9.0	Edge	
D	TMVW-t	MT20	5.0	8.0	2.50	2.50
E	TMV+p	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMVW-t	MT20	5.0	6.0		
H	TTWW+m	MT20	6.0	9.0	Edge	
I	TMVW+p	MT20	4.0	4.0	1.00	2.00
J	TMVW-p	MT20	5.0	8.0	Edge	
L	BMVW1-t	MT20	5.0	6.0		
M	BMV+p	MT20	3.0	6.0		
N	BVMWV-t	MT20	6.0	12.0	3.25	7.50
O	BMVW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	6.0	10.0		
R	BVMWVW-t	MT20	8.0	12.0	5.25	4.75
S	BMV+p	MT20	3.0	6.0		
T	BMVWVW-t	MT20	6.0	10.0	2.50	5.00
U	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	5.0	6.0		
W	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	LENGTH FR-TO	
AU-AV	0 / 11157	-18.5	-18.5	0.90 (1)	10.00
AV-AW	0 / 11157	-18.5	-18.5	0.90 (1)	10.00
AW-Q	0 / 11157	-18.5	-18.5	0.90 (1)	10.00
Q-AX	0 / 4249	-18.5	-18.5	0.45 (1)	10.00
AX-P	0 / 4249	-18.5	-18.5	0.45 (1)	10.00
P-AY	0 / 4249	-18.5	-18.5	0.45 (1)	10.00
AY-AZ	0 / 4249	-18.5	-18.5	0.45 (1)	10.00
AZ-BA	0 / 4249	-18.5	-18.5	0.45 (1)	10.00
BA-O	0 / 4249	-18.5	-18.5	0.45 (1)	10.00
O-BB	0 / 3952	-18.5	-18.5	0.43 (1)	10.00
BB-N	0 / 3952	-18.5	-18.5	0.43 (1)	10.00
M-N	0 / 17	0.0	0.0	0.09 (1)	10.00
N-I	-618 / 0	0.0	0.0	0.09 (1)	7.81
M-L	0 / 113	-18.5	-18.5	0.01 (1)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-11-8	-30	-30	---	FRONT	VERT	DEAD	---
C	2-11-8	-127	-127	---	FRONT	VERT	SNOW	---
E	17-6-12	-76	-76	---	FRONT	VERT	TOTAL	---
F	18-8-4	-73	-73	---	FRONT	VERT	TOTAL	---
H	32-11-8	-30	-30	---	FRONT	VERT	DEAD	---
H	32-11-8	-77	-77	---	FRONT	VERT	TOTAL	---
H	32-11-8	-127	-127	---	FRONT	VERT	SNOW	---
N	34-3-4	-28	-28	---	FRONT	VERT	TOTAL	---
S	17-7-4	-28	-28	---	FRONT	VERT	TOTAL	---
U	7-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
X	3-8-4	-85	-85	---	FRONT	VERT	TOTAL	---
Y	5-8-4	-76	-76	---	FRONT	VERT	TOTAL	---
Z	7-8-4	-76	-76	---	FRONT	VERT	TOTAL	---
AA	9-8-4	-76	-76	---	FRONT	VERT	TOTAL	---
AB	11-8-4	-76	-76	---	FRONT	VERT	TOTAL	---
AC	13-8-4	-76	-76	---	FRONT	VERT	TOTAL	---
AD	15-8-4	-76	-76	---	FRONT	VERT	TOTAL	---
AE	17-11-4	-73	-73	---	FRONT	VERT	TOTAL	---
AF	20-8-4	-73	-73	---	FRONT	VERT	TOTAL	---
AG	22-8-4	-73	-73	---	FRONT	VERT	TOTAL	---
AH	24-8-4	-73	-73	---	FRONT	VERT	TOTAL	---
AI	26-8-4	-73	-73	---	FRONT	VERT	TOTAL	---
AJ	28-8-4	-73	-73	---	FRONT	VERT	TOTAL	---
AK	30-8-4	-73	-73	---	FRONT	VERT	TOTAL	---
AL	1-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
AM	3-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
AN	5-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
AO	9-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
AP	11-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
AQ	13-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
AR	15-8-4	-21	-21	---	FRONT	VERT	TOTAL	---
AS	17-11-4	-73	-73	---	FRONT	VERT	TOTAL	---
AT	18-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
AU	20-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
AV	22-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
AW	24-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
AX	26-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
AY	28-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
AZ	30-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
BA	32-8-4	-68	-68	---	FRONT	VERT	TOTAL	---
BB	33-8-4	-71	-71	---	FRONT	VERT	TOTAL	---

CONNECTION REQUIREMENTS

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

JSI GRIP= 0.89 (D) (INPUT = 0.90)
JSI METAL= 0.80 (H) (INPUT = 1.00)



Structural component only
DWG# T-2115546 *212*



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(61.0)
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(0.0)
U- S	2	12	SIDE(122.0)
R- O	2	12	SIDE(61.0)
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.			

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED				
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX	
(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	(LBS)	CSI (LC)	
FR-TO	FROM	TO						
A- B	0 / 41	-91.8	-91.8	0.07 (1)	10.00	W- C	-967 / 0	0.08 (1)
B- C	-3483 / 0	-91.8	-91.8	0.12 (1)	4.93	P- I	0 / 164	0.02 (4)
C- Y	-6361 / 0	-91.8	-91.8	0.23 (1)	4.54	P- J	0 / 420	0.04 (1)
Y- Z	-6361 / 0	-91.8	-91.8	0.23 (1)	4.54	B- W	0 / 2927	0.26 (1)
Z- D	-6361 / 0	-91.8	-91.8	0.23 (1)	4.54	O- M	-127 / 0	0.01 (1)
D- AA	-8406 / 0	-91.8	-91.8	0.27 (1)	4.01	Q- K	0 / 3711	0.33 (1)
AA- AB	-8406 / 0	-91.8	-91.8	0.27 (1)	4.01	Q- I	0 / 6504	0.58 (1)
AB- AC	-8406 / 0	-91.8	-91.8	0.27 (1)	4.01	R- H	0 / 2492	0.22 (1)
AC- E	-8406 / 0	-91.8	-91.8	0.27 (1)	4.01	Q- H	-2048 / 0	0.13 (1)
E- AD	-12228 / 0	-91.8	-91.8	0.44 (1)	3.26	C- V	0 / 4370	0.39 (1)
AD- F	-12228 / 0	-91.8	-91.8	0.44 (1)	3.26	T- E	-2614 / 0	0.22 (1)
F- AE	-12228 / 0	-91.8	-91.8	0.44 (1)	3.26	V- D	-2277 / 0	0.19 (1)
AE- G	-12228 / 0	-91.8	-91.8	0.44 (1)	3.26	D- I	0 / 2476	0.22 (1)
G- AF	-12359 / 0	-91.8	-91.8	0.52 (1)	3.18	T- R	0 / 8282	0.54 (1)
AF- AG	-12359 / 0	-91.8	-91.8	0.52 (1)	3.18	E- R	0 / 4110	0.36 (1)
AG- AH	-12359 / 0	-91.8	-91.8	0.52 (1)	3.18			
AH- H	-12359 / 0	-91.8	-91.8	0.52 (1)	3.18			
H- AI	-10040 / 0	-91.8	-91.8	0.44 (1)	3.56			
AI- AJ	-10040 / 0	-91.8	-91.8	0.44 (1)	3.56			
AJ- AK	-10040 / 0	-91.8	-91.8	0.44 (1)	3.56			
AK- I	-10040 / 0	-91.8	-91.8	0.44 (1)	3.56			
I- J	-5144 / 0	-91.8	-91.8	0.14 (1)	4.16			
J- K	-4869 / 0	-91.8	-91.8	0.14 (1)	4.27			
K- L	0 / 41	-91.8	-91.8	0.07 (1)	10.00			
X- B	-3649 / 0	0.0	0.0	0.13 (1)	7.35			
M- K	-3768 / 0	0.0	0.0	0.14 (1)	7.27			

PLATE ROTATION TOL. = 5.0 Deg.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411091	T1S1	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNrZ BuP-7HOhqXRt dpvRyflafiR1jMvltw6n23xtISwg zCy2m

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	5.0	6.0		
I	TTWW+m	MT20	7.0	8.0	Edge	
J	TMVW+p	MT20	4.0	4.0	1.00	2.00
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMVW-t	MT20	5.0	6.0		
N	BMV+p	MT20	3.0	6.0		
O	BVMWV-t	MT20	6.0	12.0	3.25	7.50
P, V, W						
P	BMVW-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	8.0	2.50	3.75
R	BVMWVW-t	MT20	8.0	12.0	Edge	4.25
S	BMV+p	MT20	3.0	6.0		
T	BMVWVW-t	MT20	6.0	12.0	3.00	3.00
U	BS-t	MT20	5.0	6.0		
X	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

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

LOADING

TOTAL LOAD CASES: (4)

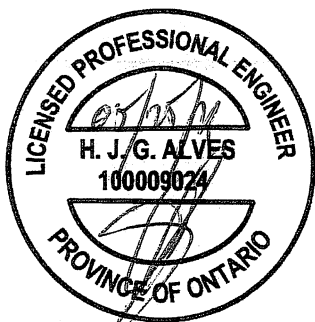
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
R-G	-885 / 0	0.0	0.0 0.27 (1)	7.81			
R-AV	0 / 10040	-18.5	-18.5 0.78 (1)	10.00			
AV-AW	0 / 10040	-18.5	-18.5 0.78 (1)	10.00			
AW-AX	0 / 10040	-18.5	-18.5 0.78 (1)	10.00			
AX-Q	0 / 10040	-18.5	-18.5 0.78 (1)	10.00			
Q-AY	0 / 4003	-18.5	-18.5 0.40 (1)	10.00			
AY-AZ	0 / 4003	-18.5	-18.5 0.40 (1)	10.00			
AZ-BA	0 / 4003	-18.5	-18.5 0.40 (1)	10.00			
BA-P	0 / 4003	-18.5	-18.5 0.40 (1)	10.00			
P-BB	0 / 3753	-18.5	-18.5 0.39 (1)	10.00			
BB-O	0 / 3753	-18.5	-18.5 0.39 (1)	10.00			
N-O	0 / 17	0.0	0.0 0.09 (1)	10.00			
O-J	-518 / 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	-99	-99	---	BACK	VERT	TOTAL	---	C1
C	2-11-8	-127	-127	---	FRONT	VERT	SNOW	---	C1
F	17-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
G	19-9-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
I	32-11-8	-30	-30	---	FRONT	VERT	DEAD	---	C1
I	32-11-8	-127	-127	---	FRONT	VERT	SNOW	---	C1
O	34-3-4	-28	-28	---	BACK	VERT	TOTAL	---	C1
S	19-7-4	-71	-71	---	BACK	VERT	TOTAL	---	C1
Y	5-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
Z	7-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AA	9-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AB	11-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AC	13-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AD	15-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AE	18-11-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AF	21-8-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AG	23-8-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AH	25-8-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AI	27-8-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AJ	29-8-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AK	31-8-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AL	2-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AM	3-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AN	5-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AO	7-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AP	9-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AQ	11-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AR	13-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AS	15-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AT	17-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AU	18-11-12	-24	-24	---	BACK	VERT	TOTAL	---	C1
AV	21-8-12	-66	-66	---	BACK	VERT	TOTAL	---	C1
AW	23-8-12	-66	-66	---	BACK	VERT	TOTAL	---	C1
AX	25-8-12	-66	-66	---	BACK	VERT	TOTAL	---	C1
AY	27-8-12	-66	-66	---	BACK	VERT	TOTAL	---	C1
AZ	29-8-12	-66	-66	---	BACK	VERT	TOTAL	---	C1
BA	31-8-12	-66	-66	---	BACK	VERT	TOTAL	---	C1
BB	33-8-12	-69	-69	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

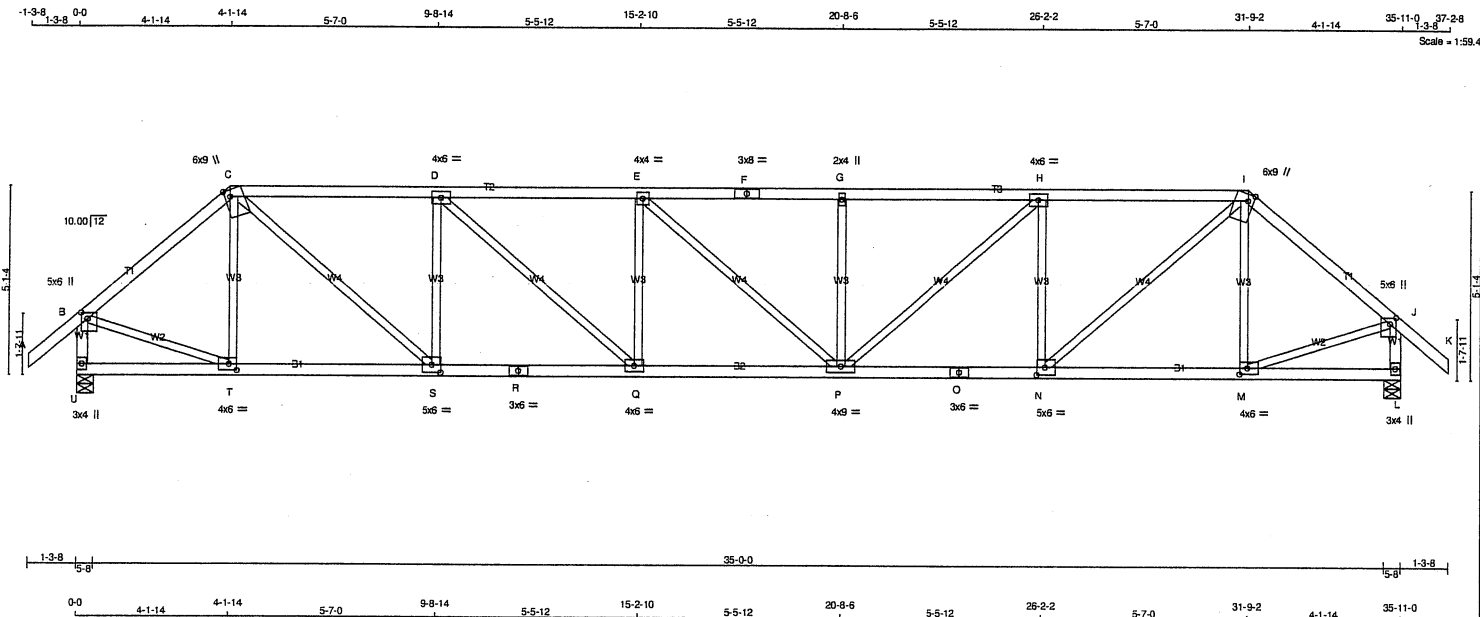


Structural component only
DWG# T-2115562

JOB NAME 411090	TRUSS NAME T2	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:37 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-7Ktgy6IsRZjMVDZzGxaJugsvuBOtxzy2FymiZzCz8C



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 - 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	2.00	2.00
C TTWW+m	MT20	6.0	9.0	Edge	1.75
D TMWW-t	MT20	4.0	6.0		
E TMWW-t	MT20	4.0	4.0		
F TS-t	MT20	3.0	8.0		
G TMW+w	MT20	2.0	4.0		
H TMWW-t	MT20	4.0	6.0		
I TTWW+m	MT20	6.0	9.0	Edge	1.75
J TMVW+p	MT20	5.0	6.0	2.00	2.00
L BMV1+p	MT20	3.0	4.0		
M BMWW-t	MT20	4.0	6.0	2.00	2.50
N BMWW-t	MT20	5.0	6.0	2.50	2.75
O BS-t	MT20	3.0	6.0		
P BMWWW-t	MT20	4.0	9.0		
Q BMWW-t	MT20	4.0	6.0		
R BS-t	MT20	3.0	6.0		
S BMWW-t	MT20	5.0	6.0	2.50	2.75
T BMWW-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.

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	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT	2107	0	2107	0	0	5-8	5-8	
U	2107	0	2107	0	0	5-8	5-8	
L	2107	0	2107	0	0	5-8	5-8	

UNFACTORED REACTIONS

	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	WIND			
JT	1488	990 / 0	0 / 0	0 / 0	498 / 0	0 / 0	0 / 0
U	1488	990 / 0	0 / 0	0 / 0	498 / 0	0 / 0	0 / 0
L	1488	990 / 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				WEBS			
MAX. FACTORED				MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	T-C	-368 / 0	0.14 (1)
B-C	-2007 / 0	-91.8 -91.8	0.36 (1)	4.41	C-S	0 / 1918	0.43 (1)
C-D	-2985 / 0	-91.8 -91.8	0.62 (1)	3.48	S-D	-1150 / 0	0.44 (1)
D-E	-3657 / 0	-91.8 -91.8	0.72 (1)	3.09	D-Q	0 / 894	0.20 (1)
E-F	-3656 / 0	-91.8 -91.8	0.59 (1)	3.26	Q-E	-488 / 0	0.19 (1)
F-G	-3656 / 0	-91.8 -91.8	0.72 (1)	3.09	E-P	-2 / 0	0.00 (1)
G-H	-3656 / 0	-91.8 -91.8	0.59 (1)	3.26	P-G	-487 / 0	0.19 (1)
H-I	-2986 / 0	-91.8 -91.8	0.62 (1)	3.48	I-H	0 / 891	0.20 (1)
I-J	-2007 / 0	-91.8 -91.8	0.36 (1)	4.41	H-N	-1149 / 0	0.44 (1)
J-K	0 / 41	-91.8 -91.8	0.13 (1)	10.00	N-I	0 / 1919	0.43 (1)
U-B	-2078 / 0	0.0 0.0	0.22 (1)	5.87	M-I	-368 / 0	0.14 (1)
L-J	-2078 / 0	0.0 0.0	0.22 (1)	5.87	B-T	0 / 1608	0.36 (1)
					M-J	0 / 1608	0.36 (1)
U-T	0 / 0	-18.5 -18.5	0.10 (4)	10.00			
T-S	0 / 1530	-18.5 -18.5	0.31 (1)	10.00			
S-R	0 / 2986	-18.5 -18.5	0.53 (1)	10.00			
R-Q	0 / 2986	-18.5 -18.5	0.53 (1)	10.00			
Q-P	0 / 3657	-18.5 -18.5	0.64 (1)	10.00			
P-O	0 / 2986	-18.5 -18.5	0.53 (1)	10.00			
O-N	0 / 2986	-18.5 -18.5	0.53 (1)	10.00			
N-M	0 / 1530	-18.5 -18.5	0.31 (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, 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-Q:1) ,
WB=0.44/1.00 (D-S: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

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

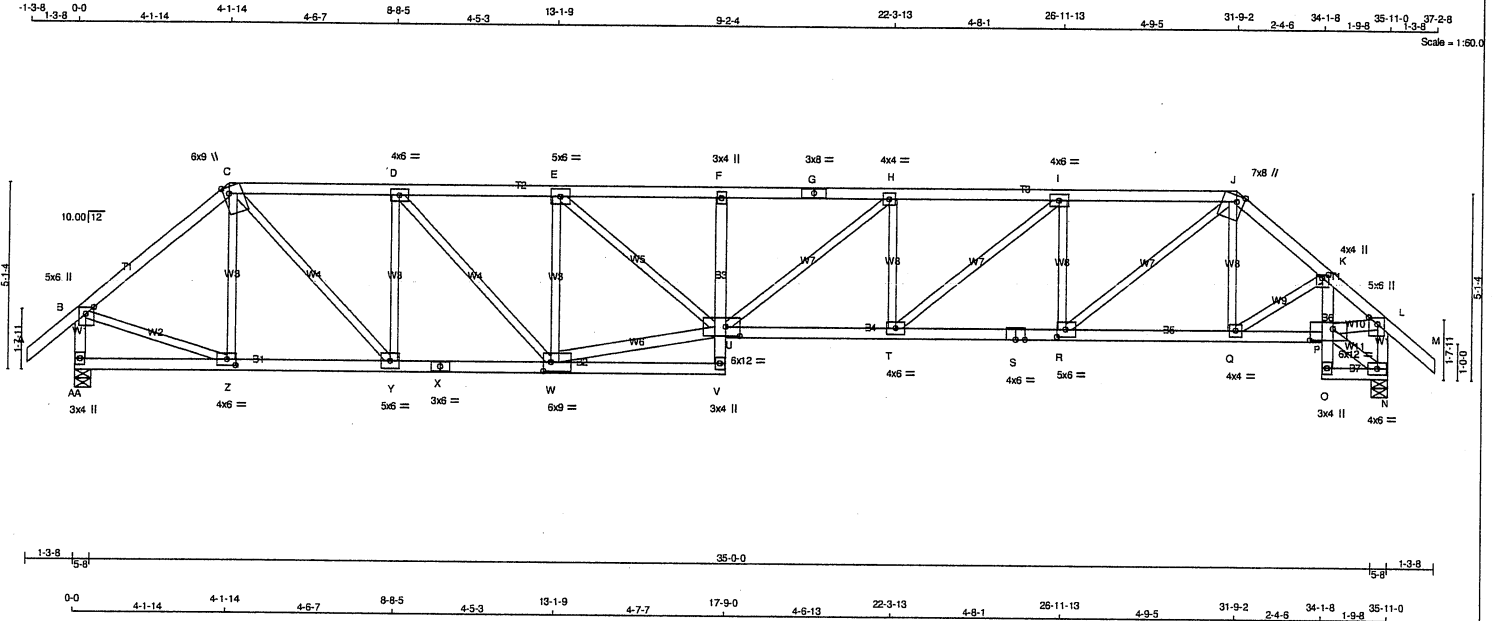


Structural component only
DWG# T-2115547

JOB NAME 411090	TRUSS NAME T2S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 13:01:38 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-bWR2ASmVCsrDNfoIXzSps5C38IUdcMY5HvJE?zCz8B



TOTAL WEIGHT = 162 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
J - M	2x4	DRY	No.2
AA - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
AA - X	2x4	DRY	No.2
X - V	2x4	DRY	No.2
V - F	2x4	DRY	No.2
U - S	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			
P - N	2x4	DRY	No.2
P - L	2x4	DRY	No.2
W - U	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	Edge 2.75
C TTMVW+m	MT20	6.0	9.0	Edge 1.75
D TMVW-t	MT20	4.0	6.0	
E TTMVW-t	MT20	5.0	6.0	
F TMV+p	MT20	3.0	4.0	
G TS-t	MT20	3.0	8.0	
H TTMVW-t	MT20	4.0	4.0	
I TTMVW-t	MT20	4.0	6.0	
J TTMVW+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	6.0	Edge 2.75
N BMVW-t	MT20	4.0	6.0	
O BMV+p	MT20	3.0	4.0	
P BVWVW-I	MT20	6.0	12.0	3.75 7.50
Q BMVW-t	MT20	4.0	4.0	
R BMVW-t	MT20	5.0	6.0	2.50 2.75
S BS-t	MT20	4.0	6.0	
T BMVW-t	MT20	4.0	6.0	
U BVWVW-I	MT20	6.0	12.0	3.00 4.75

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		
AA	2105	0	2105	0	5-8	5-8
N	2109	0	2109	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
AA	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) AA, N

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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	Z-C	-375 / 0	0.14 (1)
B-C	-2002 / 0	-91.8 -91.8	0.36 (1)	4.42	Q-J	0 / 63	0.02 (4)
C-D	-2747 / 0	-91.8 -91.8	0.39 (1)	3.85	Q-K	-73 / 0	0.01 (1)
D-E	-3442 / 0	-91.8 -91.8	0.46 (1)	3.42	B-Z	0 / 1604	0.36 (1)
E-F	-4653 / 0	-91.8 -91.8	0.55 (1)	2.92	P-N	-68 / 0	0.01 (1)
F-G	-4686 / 0	-91.8 -91.8	0.58 (1)	2.90	P-L	0 / 1939	0.31 (1)
G-H	-4686 / 0	-91.8 -91.8	0.58 (1)	2.90	R-J	0 / 2058	0.46 (1)
H-I	-4415 / 0	-91.8 -91.8	0.62 (1)	2.91	U-H	0 / 348	0.08 (1)
I-J	-3522 / 0	-91.8 -91.8	0.51 (1)	3.35	R-I	-1198 / 0	0.31 (1)
J-K	-2496 / 0	-91.8 -91.8	0.17 (1)	4.22	T-H	-638 / 0	0.16 (1)
K-L	-2547 / 0	-91.8 -91.8	0.19 (1)	4.16	T-I	0 / 1152	0.26 (1)
L-M	0 / 41	-91.8 -91.8	0.13 (1)	10.00	C-Y	0 / 1777	0.40 (1)
AA-B	-2074 / 0	0.0 0.0	0.22 (1)	5.87	W-E	-1409 / 0	0.54 (1)
N-L	-2055 / 0	0.0 0.0	0.22 (1)	5.90	Y-D	-1217 / 0	0.47 (1)
					D-W	0 / 1034	0.23 (1)
AA-Z	0 / 0	-18.5 -18.5	0.09 (4)	10.00	W-U	0 / 3420	0.55 (1)
Z-Y	0 / 1526	-18.5 -18.5	0.30 (1)	10.00	E-U	0 / 1564	0.35 (1)
Y-X	0 / 2748	-18.5 -18.5	0.48 (1)	10.00			
X-W	0 / 2748	-18.5 -18.5	0.48 (1)	10.00			
W-V	0 / 123	-18.5 -18.5	0.09 (4)	10.00			
V-U	0 / 38	0.0 0.0	0.17 (1)	10.00			
U-F	-422 / 0	0.0 0.0	0.19 (1)	7.81			
U-T	0 / 4415	-18.5 -18.5	0.77 (1)	10.00			
T-S	0 / 3522	-18.5 -18.5	0.61 (1)	10.00			
S-R	0 / 3522	-18.5 -18.5	0.61 (1)	10.00			
R-Q	0 / 1910	-18.5 -18.5	0.36 (1)	10.00			
Q-P	0 / 1973	-18.5 -18.5	0.37 (1)	10.00			
O-P	0 / 17	0.0 0.0	0.09 (1)	10.00			
P-K	-96 / 0	0.0 0.0	0.09 (1)	7.81			
O-N	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 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 (0.30")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/770 (0.56")

CSI: TC=0.62/1.00 (H-I:1), BC=0.77/1.00 (T-U:1), WB=0.55/1.00 (U-W:1), SSI=0.20/1.00 (I-J: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)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (U) (INPUT = 0.90)
JSI METAL= 0.82 (X) (INPUT = 1.00)



Structural component only
DWG# T-2115548

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T2S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-bWR2ASmVCsrDNfoIXzSps5C38IUdcMY5HvhJE?zCz8B

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMV+p	MT20	3.0	4.0		
W	BMWVW-t	MT20	6.0	9.0	3.00	2.50
X	BS-t	MT20	3.0	6.0		
Y	BMWVW-t	MT20	5.0	6.0		
Z	BMWVW-t	MT20	4.0	6.0	2.00	2.75
AA	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

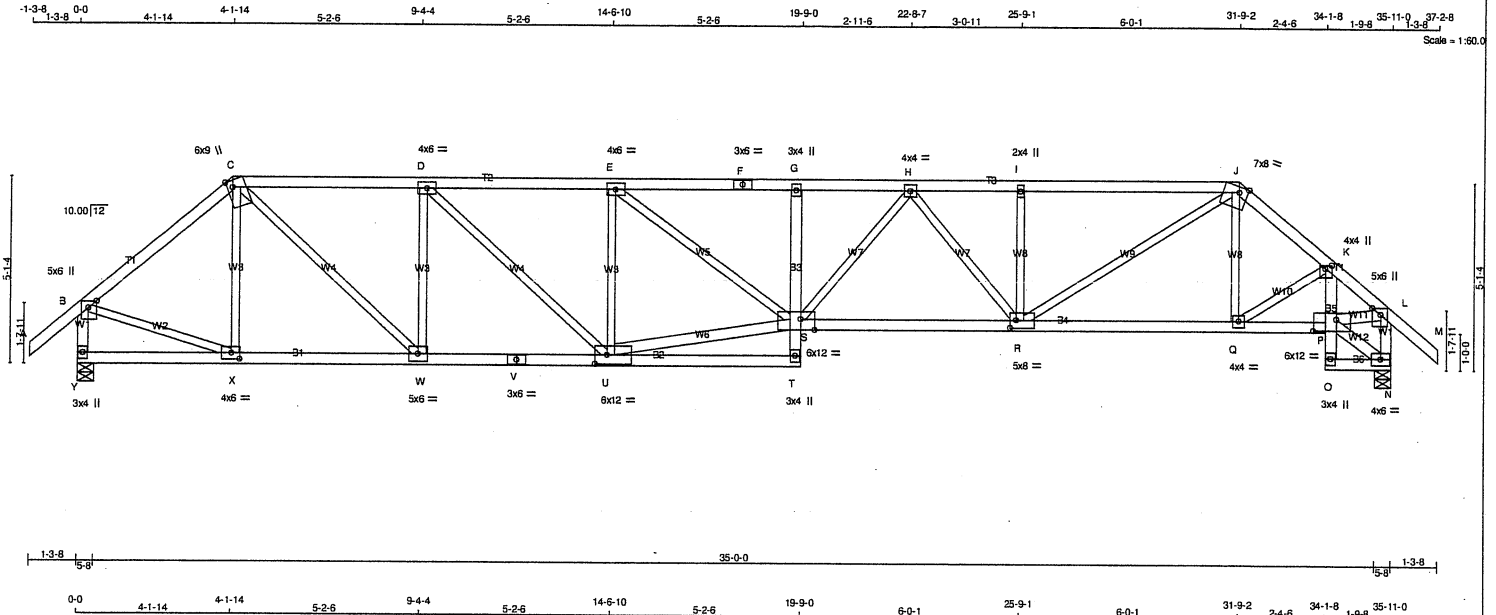


Structural component only
DWG# T-2115548 *in*

JOB NAME 411091	TRUSS NAME T2S1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:15:42 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNiRz_BuP-TTy3t?Y3eHlgWbXssIByzFGTWID4rEODAICTCQzCy2



TOTAL WEIGHT = 160 lb [M]

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 - J	2x4	DRY	No.2	SPF
J - M	2x4	DRY	No.2	SPF
Y - B	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
Y - V	2x4	DRY	No.2	SPF
V - T	2x4	DRY	No.2	SPF
T - G	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	2x3	DRY	No.2	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.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW+p	MT20	5.0	6.0	Edge 2.75
C TTWW+m	MT20	6.0	9.0	Edge 1.75
D TMVW+t	MT20	4.0	6.0	
E TMVW-t	MT20	4.0	6.0	
F TS-t	MT20	3.0	6.0	
G TMV+p	MT20	3.0	4.0	
H TMVW-t	MT20	4.0	4.0	
I TMV+w	MT20	2.0	4.0	
J TTWW-m	MT20	7.0	8.0	Edge 2.75
K TMVW+p	MT20	4.0	4.0	1.00 2.00
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 BVVWV-l	MT20	6.0	12.0	3.75 7.50
Q BMVW-t	MT20	4.0	4.0	
R BMVWV-t	MT20	5.0	8.0	2.50 2.00
S BVVWV-l	MT20	6.0	12.0	Edge 4.50
T BMV+p	MT20	3.0	4.0	
U BMVWV-t	MT20	6.0	12.0	3.00 4.00
V BS-t	MT20	3.0	6.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
Y	2105	0	2105	0	0	5-8	5-8	5-8	5-8
N	2109	0	2109	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
Y	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) Y, 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				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	0.13 (1)	10.00	X-C	-369 / 0	0.14 (1)
B-C	-2004 / 0	-91.8 -91.8	0.36 (1)	4.42	C-W	0 / 1869	0.42 (1)
C-D	-2907 / 0	-91.8 -91.8	0.54 (1)	3.61	W-D	-1172 / 0	0.45 (1)
D-E	-3591 / 0	-91.8 -91.8	0.82 (1)	3.20	D-U	0 / 942	0.21 (1)
E-F	-4610 / 0	-91.8 -91.8	0.67 (1)	2.84	U-E	-1223 / 0	0.47 (1)
F-G	-4610 / 0	-91.8 -91.8	0.67 (1)	2.84	U-S	0 / 3545	0.57 (1)
G-H	-4645 / 0	-91.8 -91.8	0.47 (1)	2.94	E-S	0 / 1253	0.28 (1)
H-I	-3850 / 0	-91.8 -91.8	0.59 (1)	3.00	R-I	-542 / 0	0.14 (1)
I-J	-3850 / 0	-91.8 -91.8	0.82 (1)	2.97	R-J	0 / 2290	0.52 (1)
J-K	-2501 / 0	-91.8 -91.8	0.17 (1)	4.22	Q-J	0 / 72	0.03 (4)
K-L	-2547 / 0	-91.8 -91.8	0.19 (1)	4.16	Q-K	-69 / 0	0.01 (1)
L-M	0 / 41	-91.8 -91.8	0.13 (1)	10.00	B-X	0 / 1806	0.36 (1)
Y-B	-2075 / 0	0.0 0.0	0.22 (1)	5.87	P-N	-68 / 0	0.01 (1)
N-L	-2055 / 0	0.0 0.0	0.22 (1)	5.90	P-L	0 / 1939	0.31 (1)
Y-X	0 / 0	-18.5 -18.5	0.10 (4)	10.00	S-H	0 / 543	0.12 (1)
X-W	0 / 1527	-18.5 -18.5	0.30 (1)	10.00	H-R	-723 / 0	0.29 (1)
W-V	0 / 2908	-18.5 -18.5	0.52 (1)	10.00			
V-U	0 / 2908	-18.5 -18.5	0.52 (1)	10.00			
U-T	0 / 131	-18.5 -18.5	0.12 (4)	10.00			
T-S	0 / 43	0.0 0.0	0.18 (1)	10.00			
S-G	-407 / 0	0.0 0.0	0.20 (1)	7.81			
S-R	0 / 4302	-18.5 -18.5	0.78 (1)	10.00			
R-Q	0 / 1914	-18.5 -18.5	0.38 (1)	10.00			
Q-P	0 / 1973	-18.5 -18.5	0.39 (1)	10.00			
O-P	0 / 17	0.0 0.0	0.09 (1)	10.00			
P-K	-102 / 0	0.0 0.0	0.09 (1)	7.81			
O-N	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, 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 (0.29")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/786 (0.55")

CSI: TC=0.82/1.00 (I-J:1), BC=0.78/1.00 (R-S:1), WB=0.57/1.00 (S-U:1), SS=0.25/1.00 (I-J: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
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (W) (INPUT = 0.90)
JSI METAL= 0.89 (V) (INPUT = 1.00)



Structural component only
DWG# T-2115563

CONTINUED ON PAGE 2

JOB NAME 411091	TRUSS NAME T2S1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:15:42 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-TTy3t?Y3eHqWbXsslByzFGTWID4rEODAICTCQzCy2

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	BMWV-t	MT20	5.0	6.0		
X	BMWV-t	MT20	4.0	6.0	2.00	2.75
Y	BMWV1+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

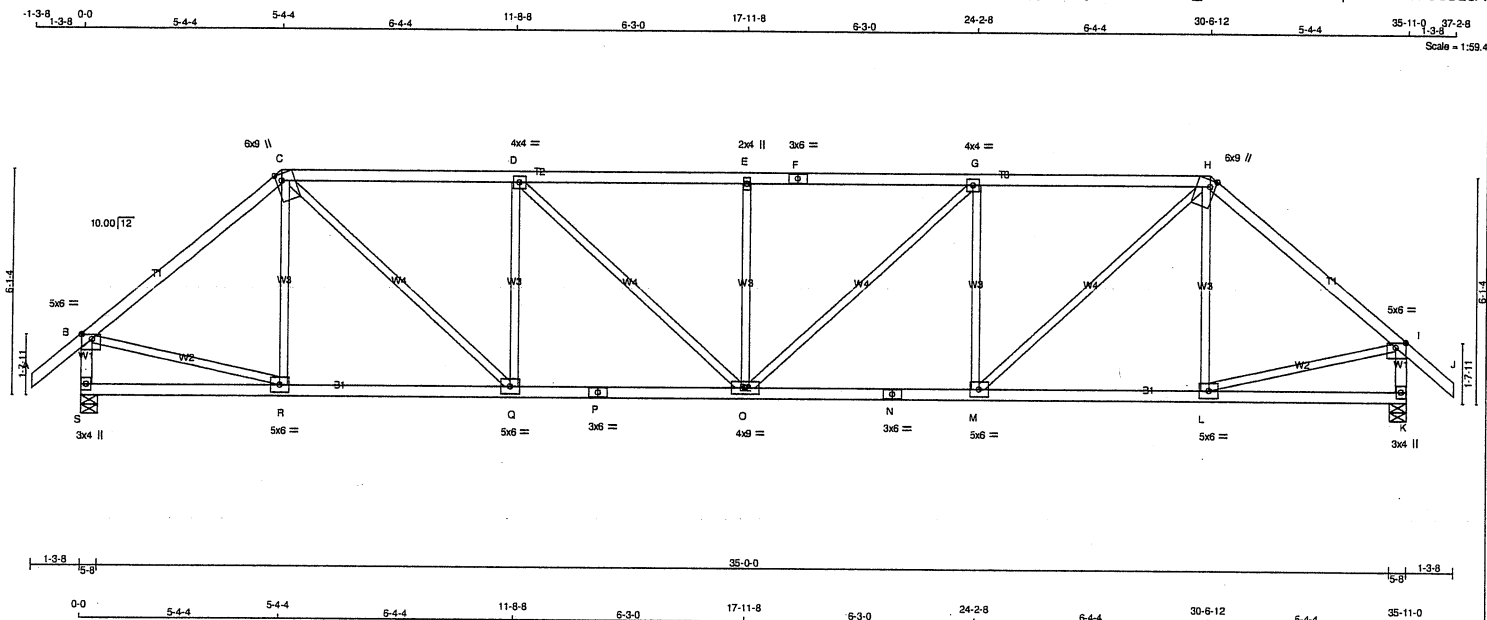


Structural component only
DWG# T-2115563 *9/11*

JOB NAME 411090	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:39 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-3j?RNom7zAz4_oNx4hz2PJIA5ivvLpUEVZRtmSzCz8A



LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
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	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 1.50 3.25
C	TTWW+m	MT20	6.0	9.0 Edge 1.75
D	TMVW-t	MT20	4.0	4.0
E	TMW+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 1.75
I	TMVW-p	MT20	5.0	6.0 1.50 3.25
K	BMV1+p	MT20	3.0	4.0
L, M, Q, R				
L	BMVW-t	MT20	5.0	6.0
N	BS-t	MT20	3.0	6.0
O	BMVW-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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
S	2107	0	2107	0	5-8	5-8	5-8	5-8
K	2107	0	2107	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH	MAX LC1 (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	R-C	-254 / 6	0.15 (1)
B-C	-2054 / 0	-91.8 -91.8	0.65 (1)	4.06	C-Q	0 / 1612	0.36 (1)
C-D	-2762 / 0	-91.8 -91.8	0.81 (1)	3.36	Q-D	-972 / 0	0.57 (1)
D-E	-3108 / 0	-91.8 -91.8	0.87 (1)	3.14	D-O	0 / 472	0.11 (1)
E-F	-3108 / 0	-91.8 -91.8	0.87 (1)	3.14	O-E	-529 / 0	0.31 (1)
F-G	-3108 / 0	-91.8 -91.8	0.87 (1)	3.14	O-G	0 / 472	0.11 (1)
G-H	-2762 / 0	-91.8 -91.8	0.81 (1)	3.36	M-G	-972 / 0	0.57 (1)
H-I	-2054 / 0	-91.8 -91.8	0.65 (1)	4.06	M-H	0 / 1612	0.36 (1)
I-J	0 / 41	-91.8 -91.8	0.13 (1)	10.00	L-H	-254 / 6	0.15 (1)
S-B	-2068 / 0	0.0 0.0	0.22 (1)	5.88	B-R	0 / 1619	0.36 (1)
K-I	-2068 / 0	0.0 0.0	0.22 (1)	5.88	L-I	0 / 1619	0.36 (1)
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			

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 (0.17")
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), 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

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

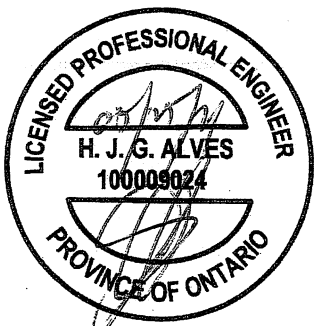
NAIL VALUES

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 (I) (INPUT = 0.90)
JSI METAL= 0.87 (P) (INPUT = 1.00)



Structural component only
DWG# T-2115549

CONTINUED ON PAGE 2

JOB NAME 411090	TRUSS NAME T3S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:41 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-756BoToNVnDoE6WKC6?WUkqVIWZlpe2XztwzrKzCz88

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BMWVW-t	MT20	5.0	8.0	2.00	2.50
W	BS-t	MT20	3.0	6.0		
X	BMWVW-t	MT20	5.0	6.0		
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

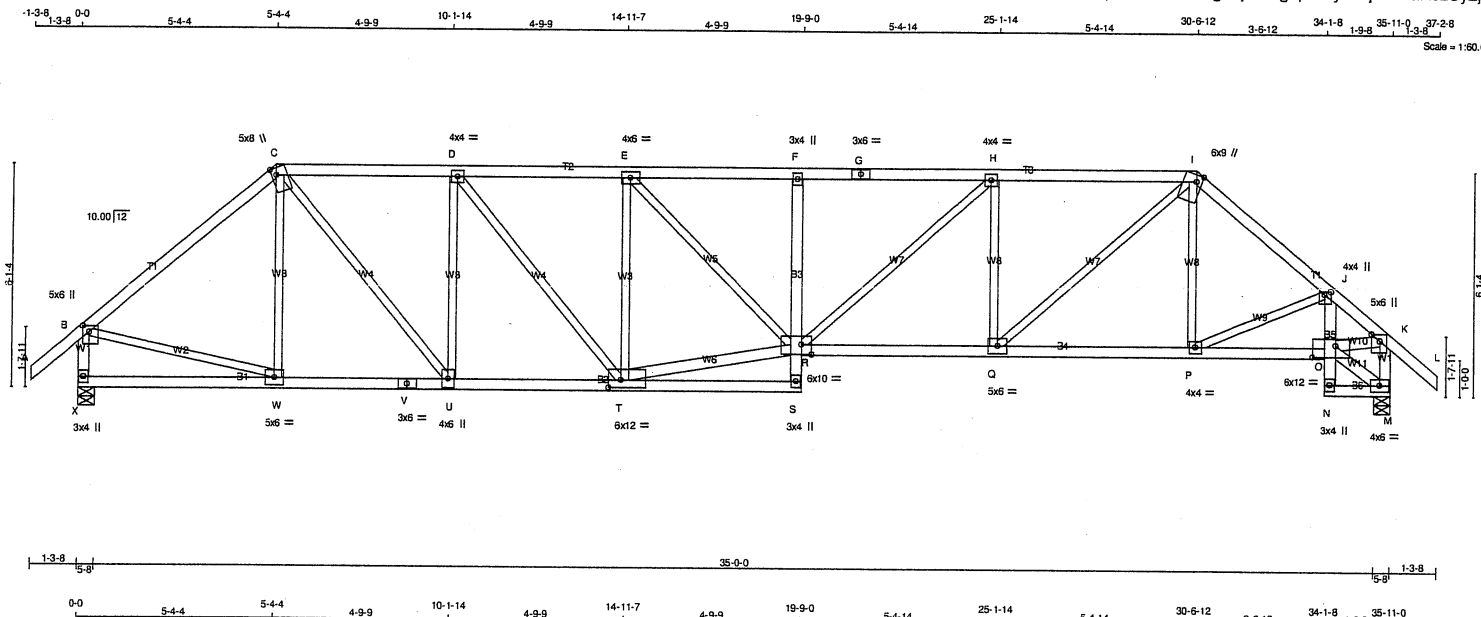


Structural component only
DWG# T-2115550 *jm*

JOB NAME 411091	TRUSS NAME T3S1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:15:44 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-Ps4qHhZJav?OmvgEzDQ2gLPdWynJ6jVechaHjzCy2j



TOTAL WEIGHT = 166 lb

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.		
A - C	2x4	DRY	No.2	SPF	
C - G	2x4	DRY	No.2	SPF	
G - I	2x4	DRY	No.2	SPF	
I - L	2x4	DRY	No.2	SPF	
X - B	2x4	DRY	No.2	SPF	
M - K	2x4	DRY	No.2	SPF	
X - V	2x4	DRY	No.2	SPF	
V - S	2x4	DRY	No.2	SPF	
S - F	2x4	DRY	No.2	SPF	
R - 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	
T - R	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	5.0	8.0	2.25	1.50
D	TMVW+t	MT20	4.0	4.0		
E	TMVW+t	MT20	4.0	6.0		
F	TMV+p	MT20	3.0	4.0		
G	TS+t	MT20	3.0	6.0		
H	TMVW+t	MT20	4.0	4.0		
I	TTWW+m	MT20	6.0	9.0	Edge	1.75
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	BMVWW-I	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		
R	BMVWW-I	MT20	6.0	10.0	3.25	3.25
S	BMV+p	MT20	3.0	4.0		
T	BMVWW-t	MT20	6.0	12.0	2.50	4.00
U	BMVW+t	MT20	4.0	6.0		
V	BS-t	MT20	3.0	6.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
X	2105	0	2105	0	5-8	5-8		
M	2109	0	2109	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.	LIVE			
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 = 3.06 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)	VERT. LOAD (PLF)	MAX. FACTORED CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 41	-91.8	-91.8 0.13 (1)	W-C	-264 / 0	0.15 (1)	
B-C	-2049 / 0	-91.8	-91.8 0.64 (1)	C-U	0 / 1493	0.34 (1)	
C-D	-2524 / 0	-91.8	-91.8 0.43 (1)	U-D	-1068 / 0	0.63 (1)	
D-E	-2991 / 0	-91.8	-91.8 0.47 (1)	D-T	0 / 744	0.17 (1)	
E-F	-3669 / 0	-91.8	-91.8 0.46 (1)	T-E	-1101 / 0	0.64 (1)	
F-G	-3687 / 0	-91.8	-91.8 0.72 (1)	T-R	0 / 2987	0.48 (1)	
G-H	-3687 / 0	-91.8	-91.8 0.72 (1)	E-R	0 / 957	0.22 (1)	
H-I	-3172 / 0	-91.8	-91.8 0.65 (1)	R-H	0 / 686	0.15 (1)	
I-J	-2461 / 0	-91.8	-91.8 0.27 (1)	Q-H	-1018 / 0	0.39 (1)	
J-K	-2578 / 0	-91.8	-91.8 0.19 (1)	Q-I	0 / 1716	0.39 (1)	
K-L	0 / 41	-91.8	-91.8 0.13 (1)	P-I	0 / 94	0.03 (4)	
X-B	-2064 / 0	0.0	0.0 0.22 (1)	P-J	-154 / 0	0.04 (1)	
M-K	-2055 / 0	0.0	0.0 0.22 (1)	B-W	0 / 1615	0.36 (1)	
				O-M	-69 / 0	0.01 (1)	
X-W	0 / 0	-18.5	-18.5 0.13 (4)	O-K	0 / 1984	0.32 (1)	
W-V	0 / 1566	-18.5	-18.5 0.32 (1)				
V-U	0 / 1566	-18.5	-18.5 0.32 (1)				
U-T	0 / 2525	-18.5	-18.5 0.45 (1)				
T-S	0 / 82	-18.5	-18.5 0.10 (4)				
S-R	0 / 39	0.0	0.0 0.12 (1)				
R-F	-444 / 0	0.0	0.0 0.17 (1)				
R-Q	0 / 3172	-18.5	-18.5 0.58 (1)				
Q-P	0 / 1878	-18.5	-18.5 0.36 (1)				
P-O	0 / 2017	-18.5	-18.5 0.38 (1)				
N-O	0 / 17	0.0	0.0 0.09 (1)				
O-J	-119 / 0	0.0	0.0 0.09 (1)				
N-M	0 / 57	-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, 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 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.38")

CSI: TC=0.72/1.00 (F-H:1), BC=0.58/1.00 (Q-R:1),
WB=0.64/1.00 (E-T: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 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 (U) (INPUT = 0.90)
JSI METAL= 0.52 (R) (INPUT = 1.00)



Structural component only
DWG# T-2115564

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411091	T3S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-Ps4qHhZJAv?OmvqEzjDQ2gLpdWynJ6iVechaHJzCy2i

PLATES (table is in inches)

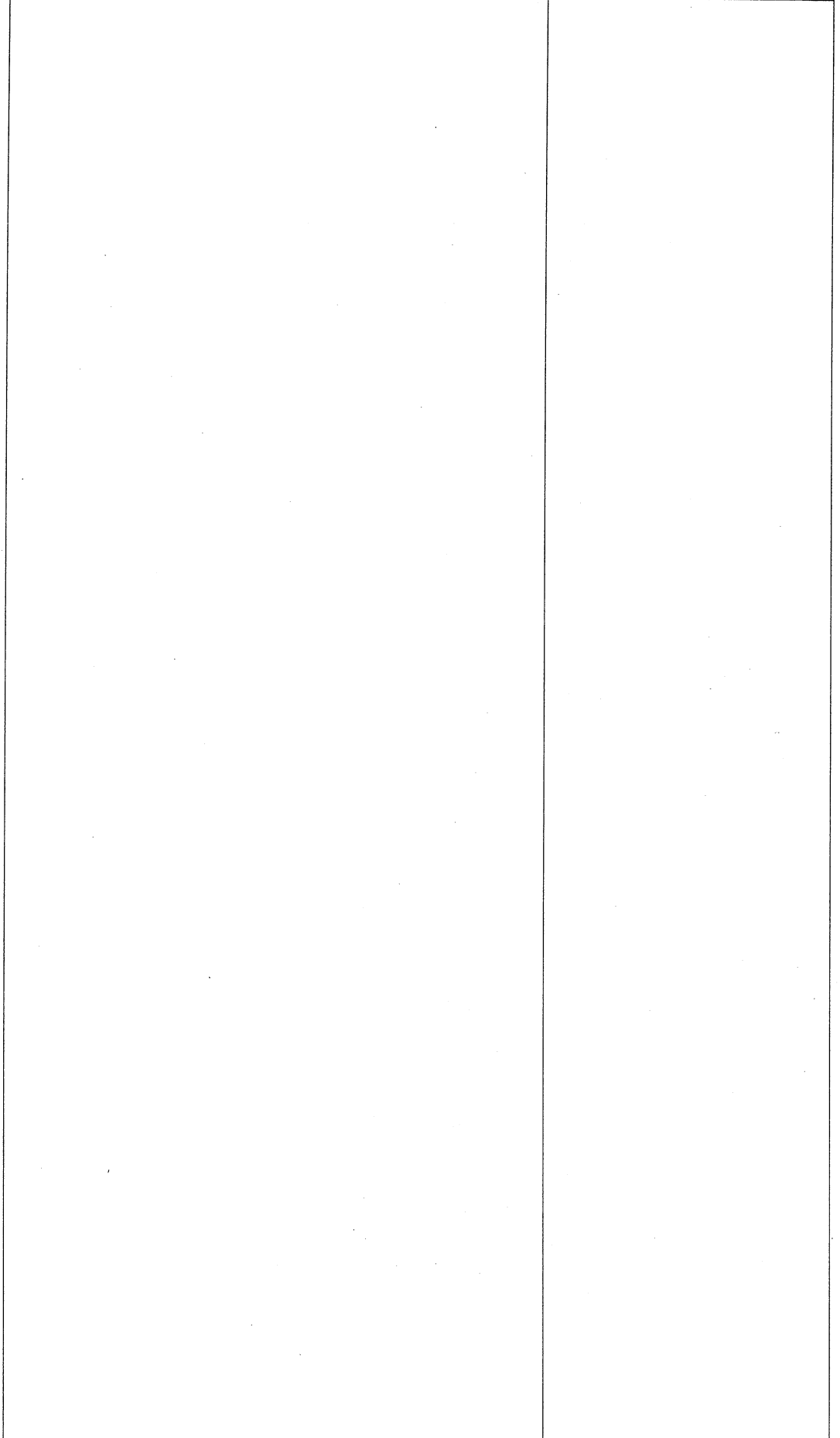
JT	TYPE	PLATES	W	LEN	Y	X
W	BMW-t	MT20	5.0	6.0		
X	BMV1+p	MT20	3.0	4.0		

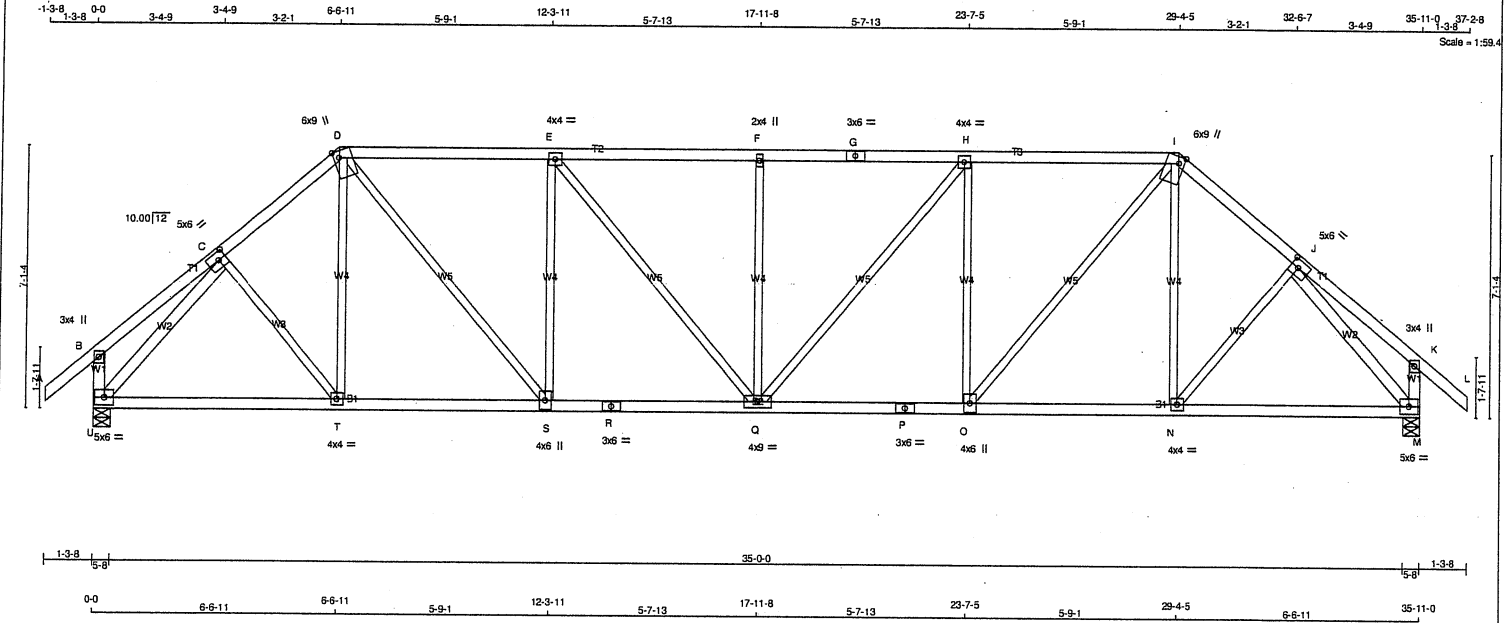
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

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



Structural component only
 DWG# T-2115564 *mn*





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
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	2x3	DRY	No.2 SPF
EXCEPT			
U - C	2x4	DRY	No.2 SPF
J - M	2x4	DRY	No.2 SPF

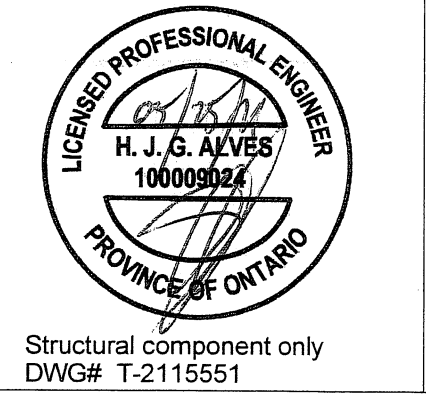
DRY: SEASONED LUMBER.

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	2.50
D	TTWW+m	MT20	6.0	9.0	Edge	1.75
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	6.0	9.0	Edge	1.75
J	TMWW-t	MT20	5.0	6.0	2.50	2.50
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		
Q	BMWW-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		

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

NOTES (1)
1)



Structural component only
DWG# T-2115551

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		
U	2107	0	2107	0	5-8	5-8
M	2107	0	2107	0	5-8	5-8

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

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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MAX. UNBRACED LENGTH (FR-TO)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC)
FR-TO					FR-TO		
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	C-T	0 / 166
B-C	0 / 20	-91.8	-91.8	0.14 (1)	10.00	T-D	0 / 75
C-D	-2076 / 0	-91.8	-91.8	0.20 (1)	4.53	D-S	0 / 1280
D-E	-2402 / 0	-91.8	-91.8	0.60 (1)	3.81	S-E	-880 / 0
E-F	-2644 / 0	-91.8	-91.8	0.63 (1)	3.63	E-Q	0 / 378
F-G	-2644 / 0	-91.8	-91.8	0.63 (1)	3.63	Q-F	-477 / 0
G-H	-2644 / 0	-91.8	-91.8	0.63 (1)	3.63	O-H	0 / 378
H-I	-2402 / 0	-91.8	-91.8	0.60 (1)	3.81	O-H	-880 / 0
I-J	-2076 / 0	-91.8	-91.8	0.20 (1)	4.53	O-I	0 / 1280
J-K	0 / 20	-91.8	-91.8	0.14 (1)	10.00	N-I	0 / 75
K-L	0 / 41	-91.8	-91.8	0.13 (1)	10.00	N-J	0 / 166
U-B	-244 / 0	0.0	0.0	0.03 (1)	7.81	U-C	-2332 / 0
M-K	-244 / 0	0.0	0.0	0.03 (1)	7.81	J-M	-2332 / 0
U-T	0 / 1467	-18.5	-18.5	0.34 (1)	10.00		
T-S	0 / 1575	-18.5	-18.5	0.36 (1)	10.00		
S-R	0 / 2402	-18.5	-18.5	0.44 (1)	10.00		
R-Q	0 / 2402	-18.5	-18.5	0.44 (1)	10.00		
Q-P	0 / 2402	-18.5	-18.5	0.44 (1)	10.00		
P-O	0 / 2402	-18.5	-18.5	0.44 (1)	10.00		
O-N	0 / 1575	-18.5	-18.5	0.36 (1)	10.00		
N-M	0 / 1467	-18.5	-18.5	0.34 (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

(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 (0.24")

CSI: TC=0.63/1.00 (F-H:1), BC=0.44/1.00 (O-Q:1),
WB=0.77/1.00 (E-S: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 (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= 0.88 (J) (INPUT = 0.90)
JSI METAL= 0.74 (R) (INPUT = 1.00)

JOB NAME 411090	TRUSS NAME T4S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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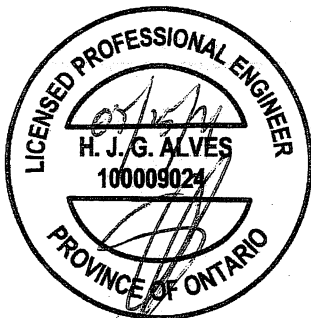
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
U	BMWVW-t	MT20	5.0	8.0	2.25	2.50
V	BS-t	MT20	3.0	6.0		
W	BMWVW-t	MT20	4.0	4.0		
X	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

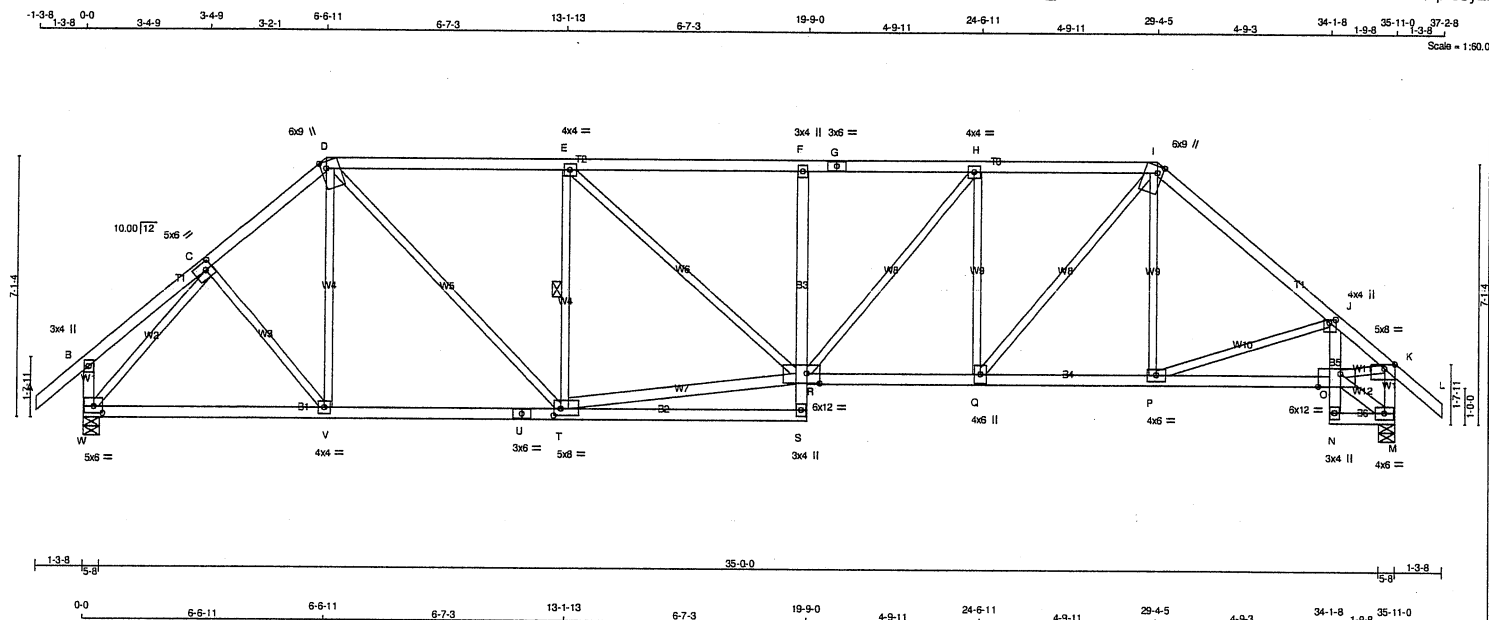


Structural component only
DWG# T-2115552 *in*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411091	T4S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:15:45 2021 Page 1
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LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
L - K	2x4	DRY	No.2
M - K	2x4	DRY	No.2
W - U	2x4	DRY	No.2
U - S	2x4	DRY	No.2
S - F	2x4	DRY	No.2
R - O	2x4	DRY	No.2
N - J	2x4	DRY	No.2
N - M	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
T - R	2x4	DRY	No.2
O - M	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
C	TMVW-t	MT20	5.0	6.0
D	TTVW+m	MT20	6.0	9.0
E	TMVW-t	MT20	4.0	4.0
F	TMV+p	MT20	3.0	4.0
G	TS-t	MT20	3.0	6.0
H	TMVW-t	MT20	4.0	4.0
I	TTVW+m	MT20	6.0	9.0
J	TMVW+p	MT20	4.0	4.0
K	TMVW-p	MT20	5.0	8.0
M	BMVW-t	MT20	4.0	6.0
N	BMV+p	MT20	3.0	4.0
O	BMVW-t	MT20	6.0	12.0
P	BMVW-t	MT20	4.0	6.0
Q	BMVW-t	MT20	4.0	6.0
R	BMVW-t	MT20	6.0	12.0
S	BMV+p	MT20	3.0	4.0
T	BMVW-t	MT20	5.0	8.0
U	BS-t	MT20	3.0	6.0
V	BMVW-t	MT20	4.0	4.0
W	BMVW-t	MT20	5.0	6.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
W	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
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 = 3.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		W E B S	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC1)	MEMB.	MAX. FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 41	-91.8	-91.8 0.13 (1)	C-V	0 / 167
B-C	0 / 19	-91.8	-91.8 0.14 (1)	D-V	0 / 75
C-D	-2072 / 0	-91.8	-91.8 0.20 (1)	E-T	0 / 1312
D-E	-2481 / 0	-91.8	-91.8 0.86 (1)	F-T	-1188 / 0
E-F	-3047 / 0	-91.8	-91.8 0.95 (1)	G-T	0 / 2450
F-G	-3060 / 0	-91.8	-91.8 0.47 (1)	H-T	0 / 745
G-H	-3060 / 0	-91.8	-91.8 0.47 (1)	I-T	0 / 578
H-I	-2689 / 0	-91.8	-91.8 0.43 (1)	J-T	-922 / 0
I-J	-2404 / 0	-91.8	-91.8 0.45 (1)	K-T	0 / 1331
J-K	-2615 / 0	-91.8	-91.8 0.30 (1)	L-T	0 / 128
K-L	0 / 41	-91.8	-91.8 0.13 (1)	M-T	-267 / 0
L-M	-246 / 0	0.0	0.0 0.03 (1)	N-T	-2327 / 0
M-N	-2050 / 0	0.0	0.0 0.22 (1)	O-T	-77 / 0
				P-T	0 / 2042
W-V	0 / 1464	-18.5	-18.5 0.34 (1)		
V-U	0 / 1572	-18.5	-18.5 0.36 (1)		
U-T	0 / 1572	-18.5	-18.5 0.36 (1)		
T-S	0 / 72	-18.5	-18.5 0.18 (4)		
S-R	0 / 55	0.0	0.0 0.11 (1)		
R-F	-483 / 0	0.0	0.0 0.26 (1)		
Q-P	0 / 2689	-18.5	-18.5 0.49 (1)		
P-Q	0 / 1829	-18.5	-18.5 0.36 (1)		
P-O	0 / 2080	-18.5	-18.5 0.40 (1)		
N-O	0 / 17	0.0	0.0 0.10 (1)		
O-J	-133 / 0	0.0	0.0 0.10 (1)		
N-M	0 / 63	-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 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 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.32")

CSI: TC=0.95/1.00 (E-F:1), BC=0.49/1.00 (Q-R:1), WB=1.00/1.00 (C-W: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 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= 0.85 (K) (INPUT = 0.90)
JSI METAL= 0.52 (C) (INPUT = 1.00)

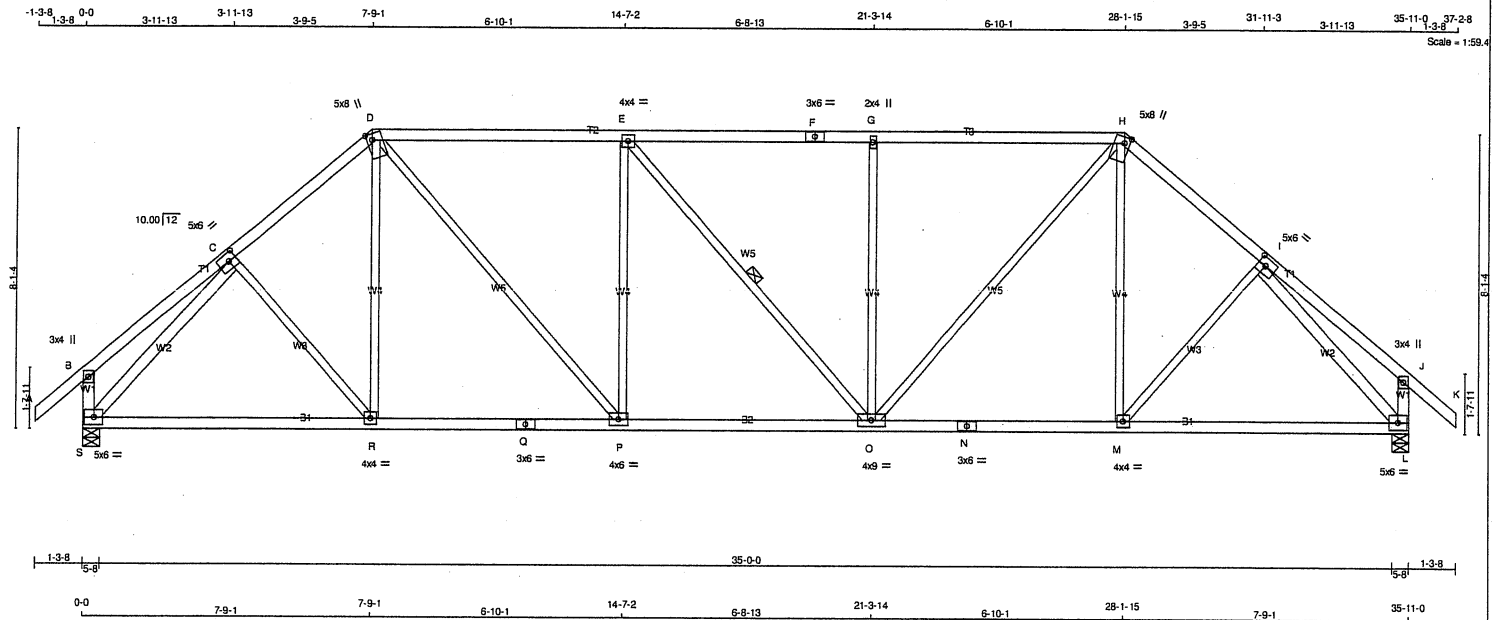


Structural component only
DWG# T-2115565

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T5	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-PgoJQVqFoicN5aFvtEZD6MS2YjdB0y5_fr8dSfzCz85



TOTAL WEIGHT = 165 lb

LUMBER	CHORDS	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES					
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - B	2x4	DRY	No.2	SPF	
S - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
S - Q	2x4	DRY	No.2	SPF	
Q - N	2x4	DRY	No.2	SPF	
N - L	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
S - C	2x4	DRY	No.2	SPF	
I - L	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	2.50
D	TTWW+m	MT20	5.0	8.0	2.00	1.75
E	TMWW-t	MT20	4.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMW+w	MT20	2.0	4.0		
H	TTWW+m	MT20	5.0	8.0	2.00	1.75
I	TMWW-t	MT20	5.0	6.0	2.50	2.50
J	TMV+p	MT20	3.0	4.0		
L	BMVW1-t	MT20	5.0	6.0		
M	BMVW1-t	MT20	4.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW1-t	MT20	4.0	9.0		
P	BMVW1-t	MT20	4.0	6.0		
Q	BS-t	MT20	3.0	6.0		
R	BMVW1-t	MT20	4.0	4.0		
S	BMVW1-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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	DOWN	IN-SX	IN-SX
S	2107	0	5-8	5-8
L	2107	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	1488	990 / 0	0 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0
L	1488	990 / 0	0 / 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	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO							FR-TO			
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00		C-R	0 / 67	0.02 (4)	
B-C	0 / 26	-91.8	-91.8	0.21 (1)	10.00		R-D	0 / 125	0.04 (4)	
C-D	-2060 / 0	-91.8	-91.8	0.29 (1)	4.46		D-P	0 / 1055	0.24 (1)	
D-E	-2256 / 0	-91.8	-91.8	0.82 (1)	3.63		P-E	-675 / 0	0.86 (1)	
E-F	-2255 / 0	-91.8	-91.8	0.81 (1)	3.63		E-O	-2 / 0	0.00 (1)	
F-G	-2255 / 0	-91.8	-91.8	0.81 (1)	3.63		O-G	-675 / 0	0.85 (1)	
G-H	-2255 / 0	-91.8	-91.8	0.81 (1)	3.64		O-H	0 / 1053	0.24 (1)	
H-I	-2060 / 0	-91.8	-91.8	0.29 (1)	4.46		M-H	0 / 125	0.04 (4)	
I-J	0 / 26	-91.8	-91.8	0.21 (1)	10.00		M-I	0 / 67	0.02 (4)	
J-K	0 / 41	-91.8	-91.8	0.13 (1)	10.00		S-C	-2345 / 0	0.99 (1)	
S-B	-264 / 0	0.0	0.0	0.03 (1)	7.81		I-L	-2345 / 0	0.99 (1)	
L-J	-264 / 0	0.0	0.0	0.03 (1)	7.81					
S-R	0 / 1521	-18.5	-18.5	0.39 (1)	10.00					
R-Q	0 / 1560	-18.5	-18.5	0.40 (1)	10.00					
Q-P	0 / 1560	-18.5	-18.5	0.40 (1)	10.00					
P-O	0 / 2256	-18.5	-18.5	0.44 (1)	10.00					
O-N	0 / 1560	-18.5	-18.5	0.40 (1)	10.00					
N-M	0 / 1560	-18.5	-18.5	0.40 (1)	10.00					
M-L	0 / 1522	-18.5	-18.5	0.39 (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 (0.11")
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=0.99/1.00 (I-L: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

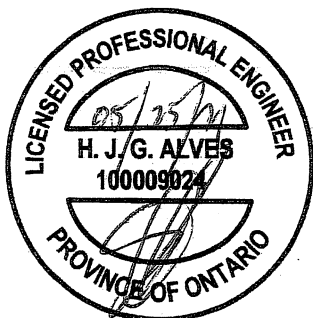
NAIL VALUES

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

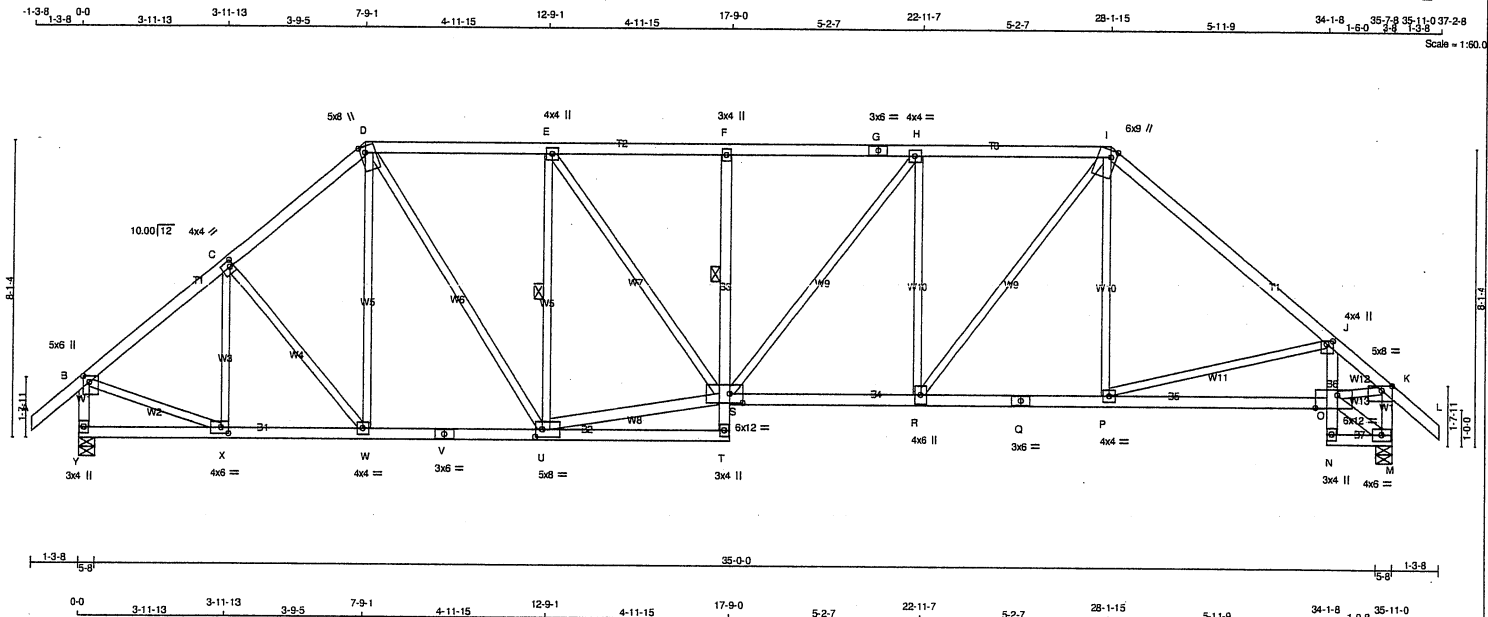


Structural component only
DWG# T-2115553

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T5S	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 13:01:45 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-utMierruZ0KEijq5Ry4Sea?Dp7y8lUL7uVuB_5zCz84



TOTAL WEIGHT = 180 lb
(M)

LUMBER				DESCR.
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
Y - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
Y - V	2x4	DRY	No.2	SPF
V - T	2x4	DRY	No.2	SPF
T - F	2x4	DRY	No.2	SPF
S - Q	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	2x3	DRY	No.2	SPF
EXCEPT				
U - S	2x4	DRY	No.2	SPF
O - M	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	TTWW+m	MT20	5.0	8.0 2.00 1.75
E	TMVW-t	MT20	4.0	4.0
F	TMV+p	MT20	3.0	4.0
G	TS-t	MT20	3.0	6.0
H	TMVW-t	MT20	4.0	4.0
I	TTWW+m	MT20	6.0	9.0 Edge 1.75
J	TMVW+p	MT20	4.0	4.0 1.00 2.00
K	TMVW-p	MT20	5.0	8.0 1.50 3.50
M	BMVW-t	MT20	4.0	6.0
N	BMV+p	MT20	3.0	4.0
O	BVMWV-I	MT20	6.0	12.0 4.25 7.25
P	BMVW-t	MT20	4.0	4.0
Q	BS-t	MT20	3.0	6.0
R	BMVW-t	MT20	4.0	6.0
S	BVMWVW-I	MT20	6.0	12.0 3.00 4.25
T	BMV+p	MT20	3.0	4.0
U	BMVWVW-t	MT20	5.0	8.0 2.50 2.25
V	BS-t	MT20	3.0	6.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	UP	BRG	IN-SX	BRG	IN-SX
Y	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
Y	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) Y, M

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-S, 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	X-C	-437 / 0	0.16 (1)
B-C	-1994 / 0	-91.8	-91.8 0.30 (1)	4.50	C-W	-8 / 3	0.00 (1)
C-D	-2046 / 0	-91.8	-91.8 0.30 (1)	4.46	W-D	0 / 87	0.03 (4)
D-E	-2109 / 0	-91.8	-91.8 0.41 (1)	4.25	D-U	0 / 1049	0.24 (1)
E-F	-2618 / 0	-91.8	-91.8 0.45 (1)	3.85	U-E	-1205 / 0	0.50 (1)
F-G	-2625 / 0	-91.8	-91.8 0.53 (1)	3.75	U-S	0 / 2113	0.34 (1)
G-H	-2625 / 0	-91.8	-91.8 0.53 (1)	3.75	E-S	0 / 861	0.19 (1)
H-I	-2452 / 0	-91.8	-91.8 0.52 (1)	3.88	S-H	0 / 282	0.06 (1)
I-J	-2340 / 0	-91.8	-91.8 0.72 (1)	3.91	R-H	-770 / 0	0.67 (1)
J-K	-2674 / 0	-91.8	-91.8 0.48 (1)	3.66	R-I	0 / 1103	0.25 (1)
K-L	0 / 41	-91.8	-91.8 0.13 (1)	10.00	P-I	0 / 178	0.05 (4)
Y-B	-2071 / 0	0.0	0.0 0.22 (1)	5.87	P-J	-407 / 0	0.31 (1)
M-K	-2049 / 0	0.0	0.0 0.22 (1)	5.91	B-X	0 / 1632	0.37 (1)
					O-M	-79 / 0	0.01 (1)
					O-K	0 / 2126	0.48 (1)
Y-X	0 / 0	-18.5	-18.5 0.06 (4)	10.00			
X-W	0 / 1551	-18.5	-18.5 0.29 (1)	10.00			
W-V	0 / 1547	-18.5	-18.5 0.31 (1)	10.00			
V-U	0 / 1547	-18.5	-18.5 0.31 (1)	10.00			
U-T	0 / 48	-18.5	-18.5 0.12 (4)	10.00			
T-S	0 / 40	0.0	0.0 0.07 (1)	10.00			
S-F	-425 / 0	0.0	0.0 0.08 (1)	6.25			
S-R	0 / 2453	-18.5	-18.5 0.46 (1)	10.00			
R-Q	0 / 1773	-18.5	-18.5 0.37 (1)	10.00			
Q-P	0 / 1773	-18.5	-18.5 0.37 (1)	10.00			
P-O	0 / 2164	-18.5	-18.5 0.44 (1)	10.00			
N-O	0 / 17	0.0	0.0 0.10 (1)	10.00			
O-J	-142 / 2	0.0	0.0 0.10 (1)	7.81			
N-M	0 / 65	-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 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 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.72/1.00 (I-J:1), BC=0.46/1.00 (R-S:1),
WB=0.67/1.00 (H-R: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

AUTOSOLVE LEFT HEEL ONLY

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

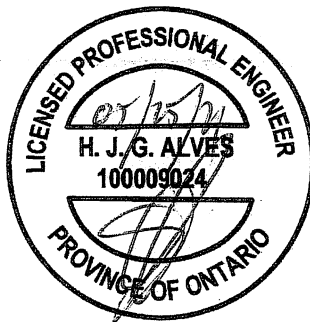
NAIL VALUES

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= 0.85 (K) (INPUT = 0.90)
JSI METAL= 0.52 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2115554

CONTINUED ON PAGE 2

JOB NAME 411090	TRUSS NAME T5S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	BMWV-t	MT20	4.0	4.0		
X	BMWV-t	MT20	4.0	6.0	2.00	2.50
Y	BMWV1+p	MT20	3.0	4.0		

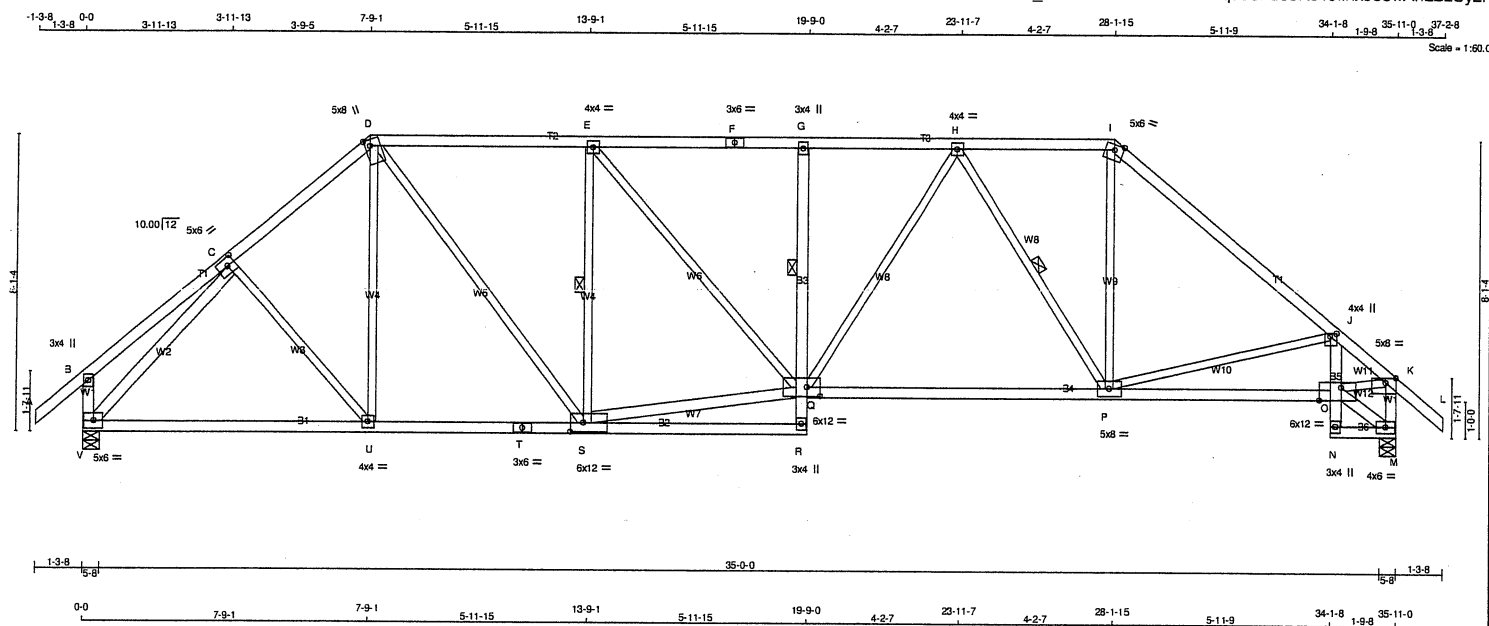
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

NOTES- (1)

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



Structural component only
DWG# T-2115554 *7/12*



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
J	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	MT20	5.0	6.0	2.50 2.50
D	TTWW-m	MT20	5.0	8.0	2.00 1.75
E	TMWW-t	MT20	4.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMV+p	MT20	3.0	4.0	
H	TMWW-t	MT20	4.0	4.0	
I	TTW-m	MT20	5.0	6.0	Edge
J	TMVV+p	MT20	4.0	4.0	1.00 2.00
K	TMVV-p	MT20	5.0	8.0	1.50 3.50
M	BMVV-t	MT20	4.0	6.0	
N	BMV+p	MT20	3.0	4.0	
O	BVMWW-t	MT20	6.0	12.0	4.25 7.25
P	BMWW-t	MT20	5.0	8.0	
Q	BVMWW-t	MT20	6.0	12.0	3.00 4.25
R	BMV+p	MT20	3.0	4.0	
S	BMWW-t	MT20	6.0	12.0	3.00 4.25
T	BS-t	MT20	3.0	6.0	
U	BMWW-t	MT20	4.0	4.0	
V	BMVV-t	MT20	5.0	6.0	

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	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
JT						
V	2105	0	2105	0	0	5-8
M	2109	0	2109	0	0	5-8

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
V	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) V. M

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.56 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 G-O E-S 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			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE	VERT. LOAD	MAX	MAX.	MEMB.	FORCE	MAX.
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 41	-91.8	-91.8	0.13 (1)	C-U	0 / 67	0.02 (4)
B-C	0 / 26	-91.8	-91.8	0.21 (1)	U-D	0 / 116	0.04 (4)
C-D	-2055 / 0	-91.8	-91.8	0.29 (1)	D-S	0 / 1047	0.24 (1)
D-E	-2191 / 0	-91.8	-91.8	0.65 (1)	S-E	-1088 / 0	0.45 (1)
E-F	-2597 / 0	-91.8	-91.8	0.69 (1)	S-Q	0 / 2179	0.35 (1)
F-G	-2597 / 0	-91.8	-91.8	0.69 (1)	E-Q	0 / 609	0.14 (1)
G-H	-2695 / 0	-91.8	-91.8	0.33 (1)	Q-H	0 / 522	0.12 (1)
H-I	-1805 / 0	-91.8	-91.8	0.27 (1)	P-I	0 / 1085	0.24 (1)
I-J	-2350 / 0	-91.8	-91.8	0.73 (1)	P-J	-397 / 0	0.30 (1)
J-K	-2673 / 0	-91.8	-91.8	0.48 (1)	C-M	-2340 / 0	0.99 (1)
K-L	0 / 41	-91.8	-91.8	0.13 (1)	0-C	-79 / 0	0.01 (1)
V-B	-264 / 0	0.0	0.0	0.03 (1)	H-C	0 / 2124	0.48 (1)
M-K	-2049 / 0	0.0	0.0	0.22 (1)	7-P	-1007 / 0	0.44 (1)

V-U	0 / 1519	-18.5	-18.5	0.38 (1)	10.00
U-T	0 / 1557	-18.5	-18.5	0.38 (1)	10.00
T-S	0 / 1557	-18.5	-18.5	0.38 (1)	10.00
S-R	0 / 52	-18.5	-18.5	0.14 (4)	10.00
R-Q	0 / 51	0.0	0.0	0.08 (1)	10.00
Q-G	-433 / 0	0.0	0.0	0.08 (1)	6.25
Q-P	0 / 2328	-18.5	-18.5	0.55 (1)	10.00
P-O	0 / 2162	-18.5	-18.5	0.52 (1)	10.00
N-O	0 / 17	0.0	0.0	0.10 (1)	10.00
O-J	-151 / 0	0.0	0.0	0.10 (1)	7.81
N-M	0 / 65	-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) = $L/999$ (0.13")
 ALLOWABLE DEFL.(TL)= $L/360$ (1.20")
 CALCULATED VERT. DEFL.(TL) = $L/999$ (0.34")

CSI: TC=0.73/1.00 (I-J:1), BC=0.55/1.00 (P-Q:1),
WB=0.99/1.00 (C-V: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

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (K) (INPUT = 0.90)
JSI METAL = 0.52 (C) (INPUT = 1.00)

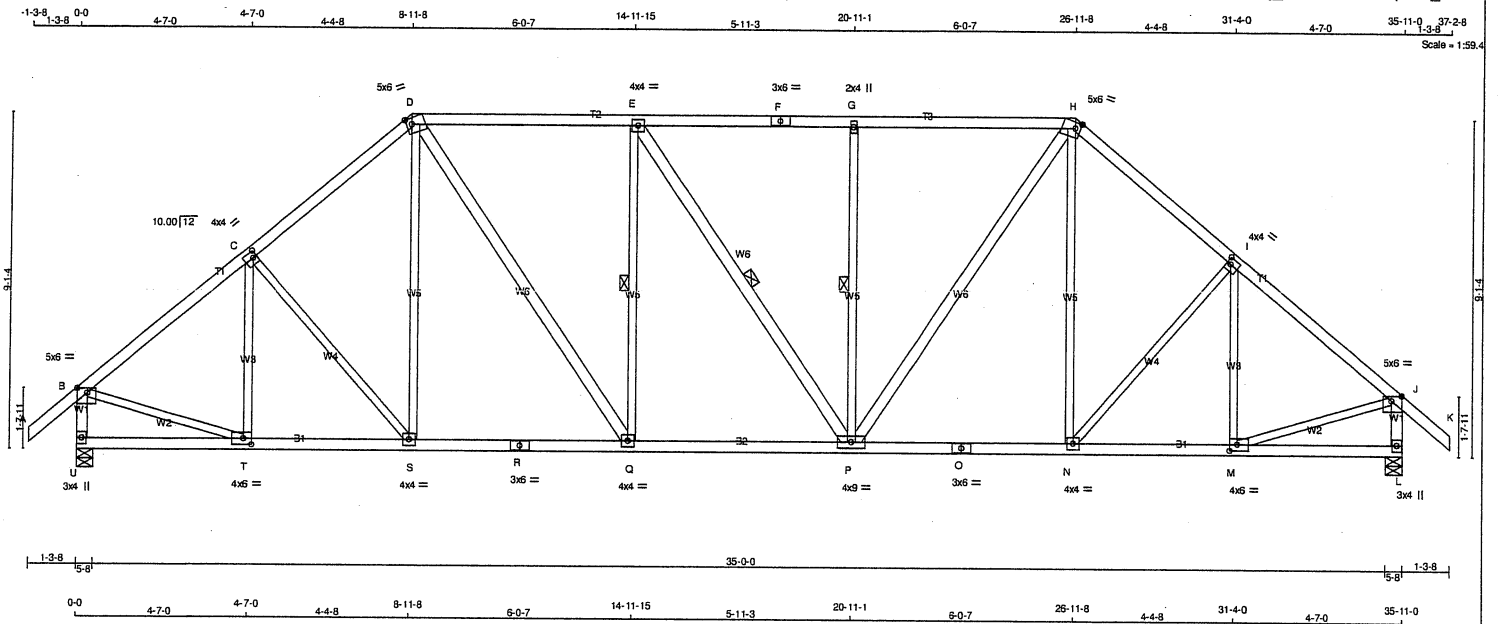
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T6	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:47 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-qFUS3Xt85d_yy1_UYM6wj_4bUwfaDTYQLpNl2_zCz82



TOTAL WEIGHT = 2 X 184 = 367 lb

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 D - Q	2x3	DRY	No.2	SPF	
E - P	2x4	DRY	No.2	SPF	
P - H	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.25
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TTWW-m	MT20	5.0	6.0	2.00	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	TTWW-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, Q, S						
O	BMVW-t	MT20	4.0	4.0		
N	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

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	IN-SX	IN-SX		
U	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		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE				
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)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0 / 41	-91.8	-91.8 0.13 (1)	10.00	T-C	-369 / 0	0.16 (1)
B-C	-2041 / 0	-91.8	-91.8 0.41 (1)	4.35	C-S	-112 / 0	0.10 (1)
C-D	-2012 / 0	-91.8	-91.8 0.40 (1)	4.37	S-D	0 / 184	0.05 (4)
D-E	-2005 / 0	-91.8	-91.8 0.58 (1)	4.13	D-Q	0 / 858	0.14 (1)
E-F	-2004 / 0	-91.8	-91.8 0.58 (1)	4.13	Q-E	-594 / 0	0.32 (1)
F-G	-2004 / 0	-91.8	-91.8 0.58 (1)	4.13	E-P	-2 / 0	0.00 (1)
G-H	-2004 / 0	-91.8	-91.8 0.57 (1)	4.14	P-G	-593 / 0	0.32 (1)
H-I	-2012 / 0	-91.8	-91.8 0.40 (1)	4.37	P-H	0 / 855	0.14 (1)
I-J	-2041 / 0	-91.8	-91.8 0.41 (1)	4.35	N-H	0 / 185	0.05 (4)
J-K	0 / 41	-91.8	-91.8 0.13 (1)	10.00	N-I	-112 / 0	0.10 (1)
U-B	-2069 / 0	0.0	0.0 0.22 (1)	5.88	M-I	-370 / 0	0.17 (1)
L-J	-2069 / 0	0.0	0.0 0.22 (1)	5.88	B-T	0 / 1655	0.37 (1)
					M-J	0 / 1654	0.37 (1)
U-T	0 / 0	-18.5	-18.5 0.08 (4)	10.00			
T-S	0 / 1591	-18.5	-18.5 0.31 (1)	10.00			
S-R	0 / 1520	-18.5	-18.5 0.32 (1)	10.00			
R-Q	0 / 1520	-18.5	-18.5 0.32 (1)	10.00			
Q-P	0 / 2005	-18.5	-18.5 0.40 (1)	10.00			
P-O	0 / 1520	-18.5	-18.5 0.31 (1)	10.00			
O-N	0 / 1520	-18.5	-18.5 0.31 (1)	10.00			
N-M	0 / 1591	-18.5	-18.5 0.32 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.08 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.09")
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-Q:1), WB=0.37/1.00 (B-T:1), SS=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)

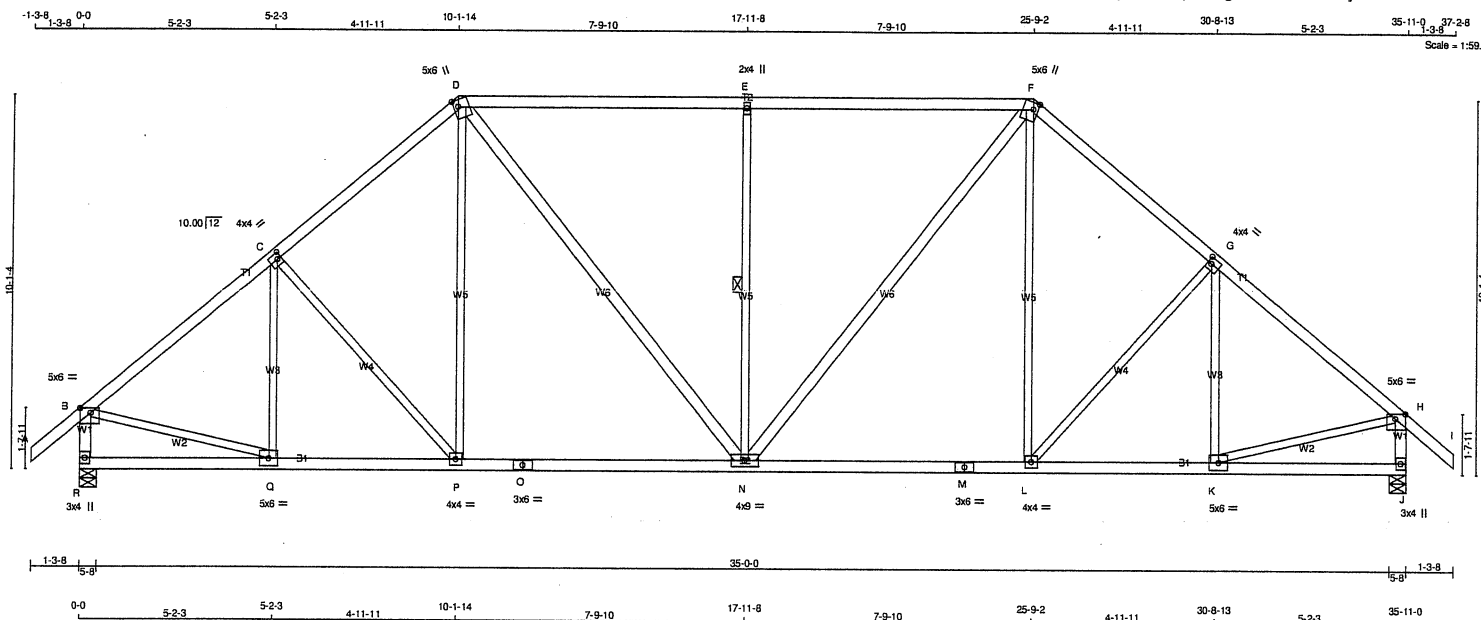


Structural component only
DWG# T-2115555

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T7	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 13:01:48 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-IR2qGtmsx6pZBZg64d9GCdIk0Dys0ZaT6rbQzCz81



TOTAL WEIGHT = 4 X 176 = 702 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW-p	MT20	5.0	6.0	1.50 3.25
C TMWW-t	MT20	4.0	4.0	2.00 1.25
D TTWW+m	MT20	5.0	6.0	2.25 1.50
E TMW+w	MT20	2.0	4.0	
F TTWW+m	MT20	5.0	6.0	2.25 1.50
G TMWW-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 BMWW-t	MT20	5.0	6.0	
L BMWW-t	MT20	4.0	4.0	
M BS-t	MT20	3.0	6.0	
N BMWWW-t	MT20	4.0	9.0	
O BS-t	MT20	3.0	6.0	
P BMWW-t	MT20	4.0	4.0	
Q BMWW-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		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG
R	2107	0	2107	0	0	5-8	5-8		
J	2107	0	2107	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	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)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	Q-C	-314 / 0	0.17 (1)
B-C	-2070 / 0	-91.8 -91.8	0.39 (1)	4.36	C-P	-207 / 0	0.24 (1)
C-D	-1964 / 0	-91.8 -91.8	0.37 (1)	4.47	P-D	0 / 276	0.06 (1)
D-E	-1891 / 0	-91.8 -91.8	0.84 (1)	3.64	D-N	0 / 659	0.11 (1)
E-F	-1891 / 0	-91.8 -91.8	0.84 (1)	3.64	N-E	-881 / 0	0.61 (1)
F-G	-1964 / 0	-91.8 -91.8	0.37 (1)	4.47	N-F	0 / 659	0.11 (1)
G-H	-2070 / 0	-91.8 -91.8	0.39 (1)	4.36	L-F	0 / 276	0.06 (1)
H-I	0 / 41	-91.8 -91.8	0.13 (1)	10.00	L-G	-207 / 0	0.24 (1)
R-B	-2065 / 0	0.0 0.0	0.22 (1)	5.89	K-G	-314 / 0	0.17 (1)
J-H	-2065 / 0	0.0 0.0	0.22 (1)	5.89	B-Q	0 / 1667	0.38 (1)
					K-H	0 / 1667	0.38 (1)
R-Q	0 / 0	-18.5 -18.5	0.10 (4)	10.00			
Q-P	0 / 1617	-18.5 -18.5	0.35 (1)	10.00			
P-O	0 / 1481	-18.5 -18.5	0.37 (1)	10.00			
O-N	0 / 1481	-18.5 -18.5	0.37 (1)	10.00			
N-M	0 / 1481	-18.5 -18.5	0.37 (1)	10.00			
M-L	0 / 1481	-18.5 -18.5	0.37 (1)	10.00			
L-K	0 / 1617	-18.5 -18.5	0.35 (1)	10.00			
K-J	0 / 0	-18.5 -18.5	0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

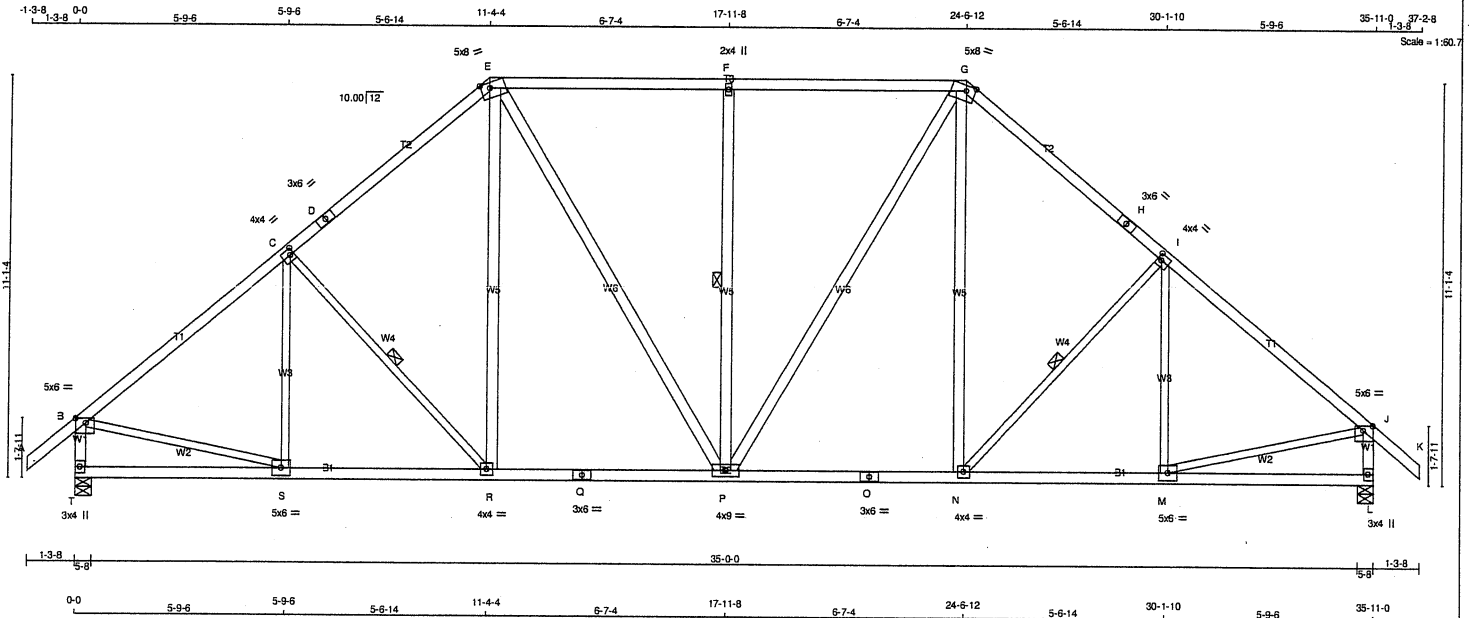


Structural component only
DWG# T-2115556

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T8	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:49 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-mebCUCuOdFEgBL7sgn9OpPAyBkMyhLSjp6sO7zCz80



TOTAL WEIGHT = 2 X 192 = 385 lb
(M/F)

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
G - 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 - Q	2x4	DRY	No.2	SPF	
Q - O	2x4	DRY	No.2	SPF	
O - L	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF	
S - C	2x3	DRY	No.2	SPF	
C - R	2x3	DRY	No.2	SPF	
N - I	2x3	DRY	No.2	SPF	
M - J	2x3	DRY	No.2	SPF	
B - S	2x3	DRY	No.2	SPF	
M - J	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	1.50	3.25	
C	TMVW-t	MT20	4.0	4.0	2.00	1.25	
D	TS-t	MT20	3.0	6.0			
E	TTVW-m	MT20	5.0	8.0	Edge	3.00	
F	TMVW-w	MT20	2.0	4.0			
G	TTVW-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	6.0	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	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
T	2107	0	2107	0
L	2107	0	2107	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS	1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
T	1488	990 / 0	0 / 0
L	1488	990 / 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				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED 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	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	I-N	-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

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 (0.08")
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), SSI=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

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)



Structural component only
DWG# T-2115557

Structural component only DWG# T-2115558 112	P-O	0 / 8083	-18.5	-18.5	0.57 (1)	10.00	JST METAL= 0.75 (S) (INPUT = 1.00)
	O-N	0 / 3580	-18.5	-18.5	0.57 (1)	10.00	
	N-M	0 / 0	-18.5	-18.5	0.27 (1)	10.00	
			-18.5	-18.5	0.04 (4)	10.00	

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T9	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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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	8.0	9.0	3.50	2.25
D	TTWW+m	MT20	7.0	8.0		
E	TTWW+m	MT20	7.0	8.0	Edge 2.00	
F	TMVW-t	MT20	5.0	6.0		
G	TMVW-w	MT20	3.0	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	2.50
K	TMVW-t	MT20	5.0	8.0	2.50	3.25
M	BMV1+p	MT20	3.0	6.0		
N, R, T						
N	BMVW-t	MT20	5.0	6.0		
O	BMVW-t	MT20	5.0	6.0	2.50	2.25
P	BS-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	6.0	9.0		
S	BS-t	MT20	5.0	6.0		
U	BMVW-t	MT20	5.0	8.0	2.50	3.25
V	BMVW-t	MT20	5.0	6.0	2.50	2.75
W	BMV1+p	MT20	3.0	6.0		

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

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	9-0-10	-54	-54	---	FRONT	VERT	DEAD	---	C1
E	9-0-10	-234	-234	---	FRONT	VERT	SNOW	---	C1
Q	18-6-8	-1834	-1834	---	BACK	VERT	TOTAL	---	C1
X	2-7-4	-97	-97	---	BACK	VERT	TOTAL	---	C1
Y	4-7-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
Z	8-7-4	-41	-41	---	BACK	VERT	TOTAL	---	C1
AA	10-7-4	-23	-23	---	BACK	VERT	TOTAL	---	C1
AB	12-7-4	-23	-23	---	BACK	VERT	TOTAL	---	C1
AC	14-7-4	-23	-23	---	BACK	VERT	TOTAL	---	C1
AD	16-7-4	-23	-23	---	BACK	VERT	TOTAL	---	C1
AE	17-7-4	-23	-23	---	BACK	VERT	TOTAL	---	C1
AF	1-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AG	2-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AH	4-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AI	6-7-4	-168	-168	---	BACK	VERT	TOTAL	---	C1
AJ	8-7-4	-168	-168	---	BACK	VERT	TOTAL	---	C1
AK	10-7-4	-168	-168	---	BACK	VERT	TOTAL	---	C1
AL	12-7-4	-168	-168	---	BACK	VERT	TOTAL	---	C1
AM	14-7-4	-168	-168	---	BACK	VERT	TOTAL	---	C1
AN	16-7-4	-168	-168	---	BACK	VERT	TOTAL	---	C1
AO	17-7-4	-168	-168	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

NOTES- (1)

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

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

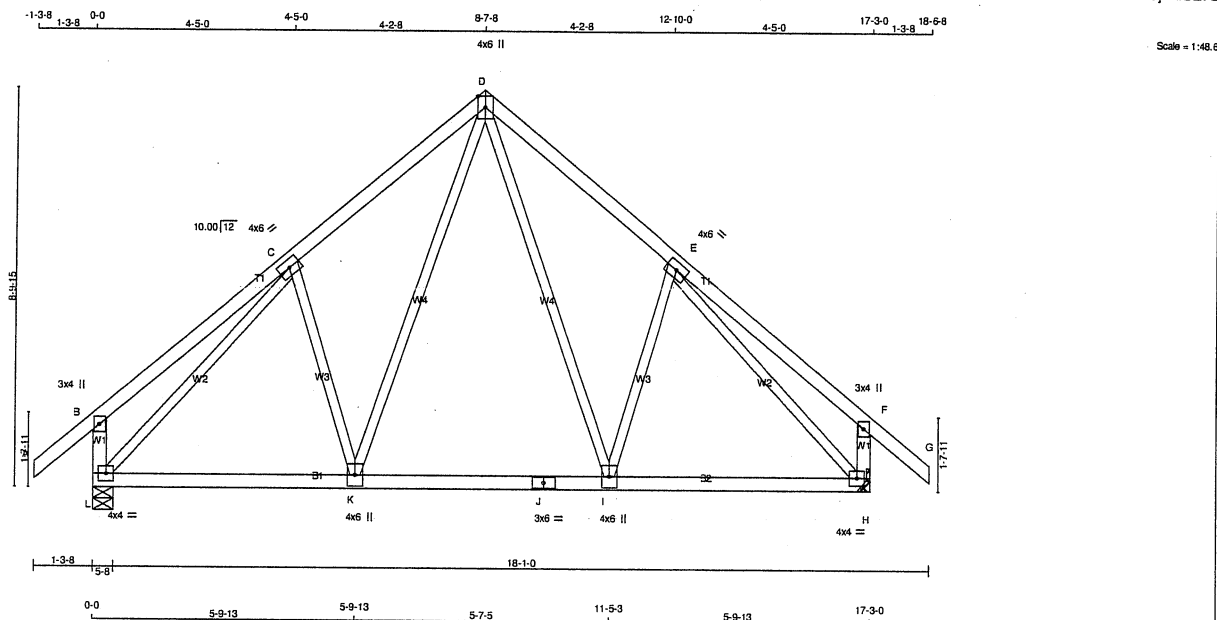


Structural component only
DWG# T-2115558 *ml*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T10	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-ADHL6ExHvAcE2osRLwi6Q2oX0xQxuew9V443jBzCz7z



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	6.0		
D	TTWW+p	MT20	4.0	6.0	Edge	
E	TMWW-t	MT20	4.0	6.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	4.0		
I	BMVW+t	MT20	4.0	6.0		
J	BS-t	MT20	3.0	6.0		
K	BMVW+t	MT20	4.0	6.0		
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		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
L	1078	0	1078	0	5-8	5-8		
H	1078	0	1078	0	0	MECHANICAL		

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	760	512 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0
H	760	512 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB. FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO		
A-B	0 / 41	-91.8 -91.8	0.13 (1)	10.00	D-I	0 / 358
B-C	0 / 30	-91.8 -91.8	0.28 (1)	10.00	I-E	-236 / 0
C-D	-801 / 0	-91.8 -91.8	0.22 (1)	6.25	K-D	0 / 358
D-E	-801 / 0	-91.8 -91.8	0.22 (1)	6.25	C-K	-236 / 0
E-F	0 / 30	-91.8 -91.8	0.28 (1)	10.00	L-C	-1008 / 0
F-G	0 / 41	-91.8 -91.8	0.13 (1)	10.00	E-H	-1008 / 0
L-B	-276 / 0	0.0 0.0	0.03 (1)	7.81		
H-F	-276 / 0	0.0 0.0	0.03 (1)	7.81		
L-K	0 / 665	-18.5 -18.5	0.19 (4)	10.00		
K-J	0 / 481	-18.5 -18.5	0.18 (4)	10.00		
J-I	0 / 481	-18.5 -18.5	0.18 (4)	10.00		
I-H	0 / 665	-18.5 -18.5	0.19 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.57")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.28/1.00 (E-F:1), BC=0.19/1.00 (H-I:4), WB=0.75/1.00 (E-H:1), SSI=0.15/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

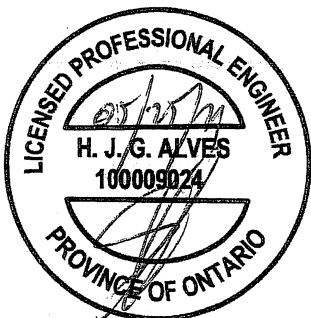
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR 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.

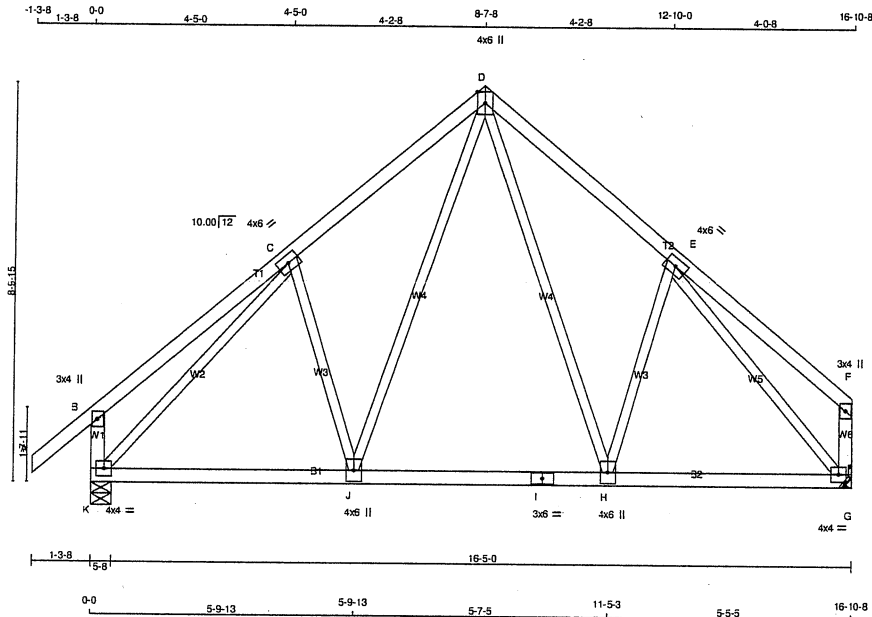
JSI GRIP= 0.77 (H) (INPUT = 0.90)
JSI METAL= 0.25 (C) (INPUT = 1.00)



Structural component only
DWG# T-2115559

JOB NAME 411092	TRUSS NAME T10A	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
K - B	2x4	DRY	No.2	SPF	
G - F	2x4	DRY	No.2	SPF	
K - I	2x4	DRY	No.2	SPF	
I - 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	TMV+p	MT20	3.0	4.0			
C	TMWW-t	MT20	4.0	6.0			
D	TTWW+p	MT20	4.0	6.0	Edge		
E	TMWW-t	MT20	4.0	6.0			
F	TMV+p	MT20	3.0	4.0			
G	BMVW1-t	MT20	4.0	4.0			
H	BMWW-t	MT20	4.0	6.0			
I	BS-t	MT20	3.0	6.0			
J	BMWW-t	MT20	4.0	6.0			
K	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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
K	1057	0	0	5-8
G	930	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX. MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	745	503 / 0	0 / 0	0 / 0	0 / 0	243 / 0	0 / 0
G	658	432 / 0	0 / 0	0 / 0	0 / 0	226 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO					FR-TO			
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	D-H	0 / 296	0.07 (1)
B-C	0 / 30	-91.8	-91.8	0.28 (1)	10.00	H-E	-179 / 0	0.08 (1)
C-D	-776 / 0	-91.8	-91.8	0.22 (1)	6.25	J-D	0 / 364	0.08 (1)
D-E	-746 / 0	-91.8	-91.8	0.21 (1)	6.25	C-J	-241 / 0	0.11 (1)
E-F	0 / 30	-91.8	-91.8	0.26 (1)	10.00	K-C	-981 / 0	0.73 (1)
K-B	-276 / 0	0.0	0.0	0.03 (1)	7.81	E-G	-971 / 0	0.65 (1)
G-F	-131 / 0	0.0	0.0	0.01 (1)	7.81			
K-J	0 / 647	-18.5	-18.5	0.19 (4)	10.00			
J-I	0 / 459	-18.5	-18.5	0.18 (4)	10.00			
I-H	0 / 459	-18.5	-18.5	0.18 (4)	10.00			
H-G	0 / 607	-18.5	-18.5	0.17 (4)	10.00			

TOTAL WEIGHT = 2 X 82 = 163 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, 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 (0.56")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.56")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.28/1.00 (B-C:1), BC=0.19/1.00 (J-K:4), WB=0.73/1.00 (C-K:1), SSI=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

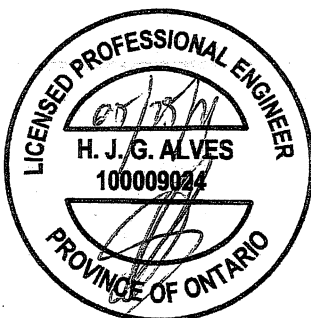
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (E) (INPUT = 1.00)
JSI METAL= 0.24 (C) (INPUT = 1.00)

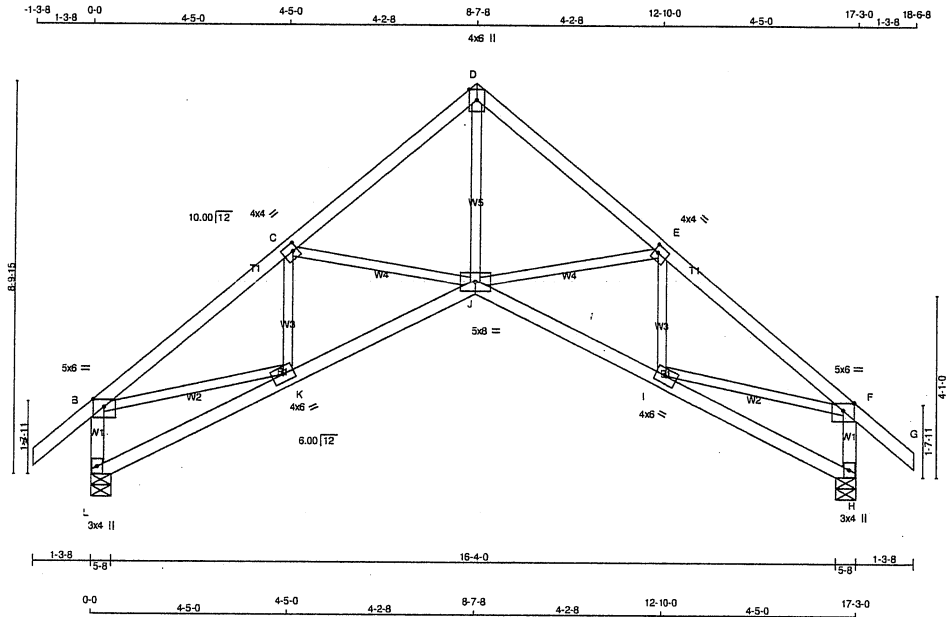


Structural component only
DWG# T-2115568

JOB NAME 411090	TRUSS NAME T10S	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:52 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-ADHL6ExHvAcE2osRLwi6Q2oYcxPCul99V443JBzCz7z



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

TOTAL WEIGHT = 3 X 76 = 229 lb [M/F]

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	Edge		
C	TMVW-t	MT20	4.0	4.0	2.00	1.25	
D	TTW+p	MT20	4.0	6.0	Edge		
E	TMVW-t	MT20	4.0	4.0	2.00	1.25	
F	TMVW-p	MT20	5.0	6.0	Edge		
H	BMV1+p	MT20	3.0	4.0			
I	BMVW-t	MT20	4.0	6.0			
J	BBVW-p	MT20	5.0	8.0			
K	BMVW-t	MT20	4.0	6.0			
L	BMV1+p	MT20	3.0	4.0			

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
L	1078	0	1078	0	0	5-8	5-8		
H	1078	0	1078	0	0	5-8	5-8		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	760	512 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0
H	760	512 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.21 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LC)
FR-TO		FROM	TO
A-B	0/41	-91.8	-91.8 0.13 (1)
B-C	-1441/0	-91.8	-91.8 0.24 (1)
C-D	-1245/0	-91.8	-91.8 0.23 (1)
D-E	-1245/0	-91.8	-91.8 0.23 (1)
E-F	-1441/0	-91.8	-91.8 0.24 (1)
F-G	0/41	-91.8	-91.8 0.13 (1)
L-B	-1042/0	0.0	0.0 0.11 (1)
H-F	-1042/0	0.0	0.0 0.11 (1)
L-K	0/4	-18.5	-18.5 0.09 (4)
K-J	0/1249	-18.5	-18.5 0.24 (1)
J-I	0/1249	-18.5	-18.5 0.24 (1)
I-H	0/4	-18.5	-18.5 0.09 (4)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.57")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.24/1.00 (B-C:1), BC=0.24/1.00 (I-J:1),
WB=0.28/1.00 (D-J:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (J) (INPUT = 0.90)
JSI METAL= 0.30 (D) (INPUT = 1.00)

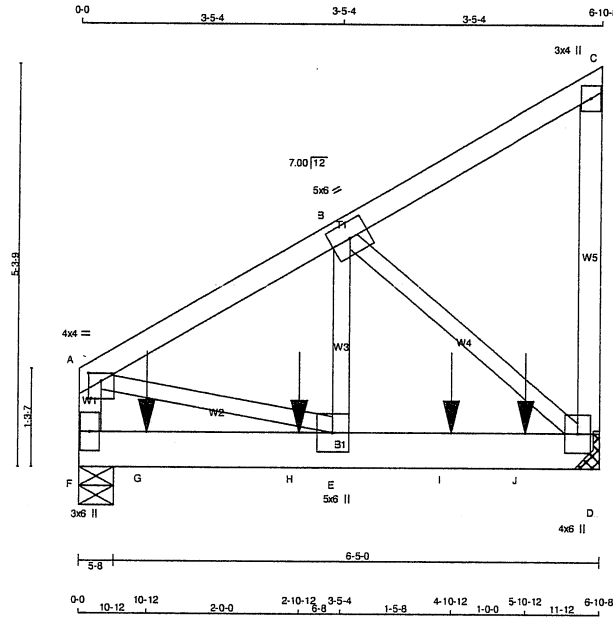


Structural component only
DWG# T-2115560

JOB NAME 411090	TRUSS NAME T11	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:53 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-fPrjJaxvgTk5gyRevdDLzFKlclHndB1ljkqcFezCz7y



Scale = 1/28.9

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 TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN
A	TMVW-p	MT20	4.0	4.0
B	TMVW-t	MT20	5.0	6.0
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		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	UPLIFT	IN-SX	BRG	BRG
F	2370	0	2370	0	0	5-8	5-8		
D	2627	0	2627	0	0	MECHANICAL			

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	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	1669	1138 / 0	0 / 0	0 / 0	0 / 0	530 / 0	0 / 0
D	1849	1262 / 0	0 / 0	0 / 0	0 / 0	587 / 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 = 6.07 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX
FR-TO		FROM TO	CSI (LC)		FR-TO		CSI (LC)
F-A	-1629 / 0	0.0	0.0 0.09 (1)	7.81	A-E	0 / 1842	0.23 (1)
A-B	-2049 / 0	-91.8	-91.8 0.09 (1)	6.07	E-B	0 / 2166	0.27 (1)
B-C	-15 / 0	-91.8	-91.8 0.08 (1)	6.25	B-D	-2331 / 0	0.37 (1)
D-C	-128 / 0	0.0	0.0 0.03 (1)	7.81			
F-G	0 / 0	-18.5	-18.5 0.31 (1)	10.00			
G-H	0 / 0	-18.5	-18.5 0.31 (1)	10.00			
H-E	0 / 0	-18.5	-18.5 0.31 (1)	10.00			
E-I	0 / 1783	-18.5	-18.5 0.47 (1)	10.00			
I-J	0 / 1783	-18.5	-18.5 0.47 (1)	10.00			
J-D	0 / 1783	-18.5	-18.5 0.47 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
G	10-12	-746	-746	---	BACK	VERT	---	C1
H	2-10-12	-745	-745	---	BACK	VERT	---	C1
I	4-10-12	-745	-745	---	BACK	VERT	---	C1
J	5-10-12	-745	-745	---	BACK	VERT	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

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

SPACING = **24.0** IN./C

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 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.09/1.00 (A-B:1), BC=0.47/1.00 (D-E:1), WB=0.37/1.00 (B-D:1), SS=0.48/1.00 (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= 0.85 (A) (INPUT = 0.90)
JSI METAL= 0.40 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115561

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	T11	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:GAonzd6DLBrd2xE89xtNtRz BuP-fPriJaxvgTk5gyRevDLzFKicLhndB1likqcFezCz7y

PLATES (table is in inches)

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

NOTES (1)

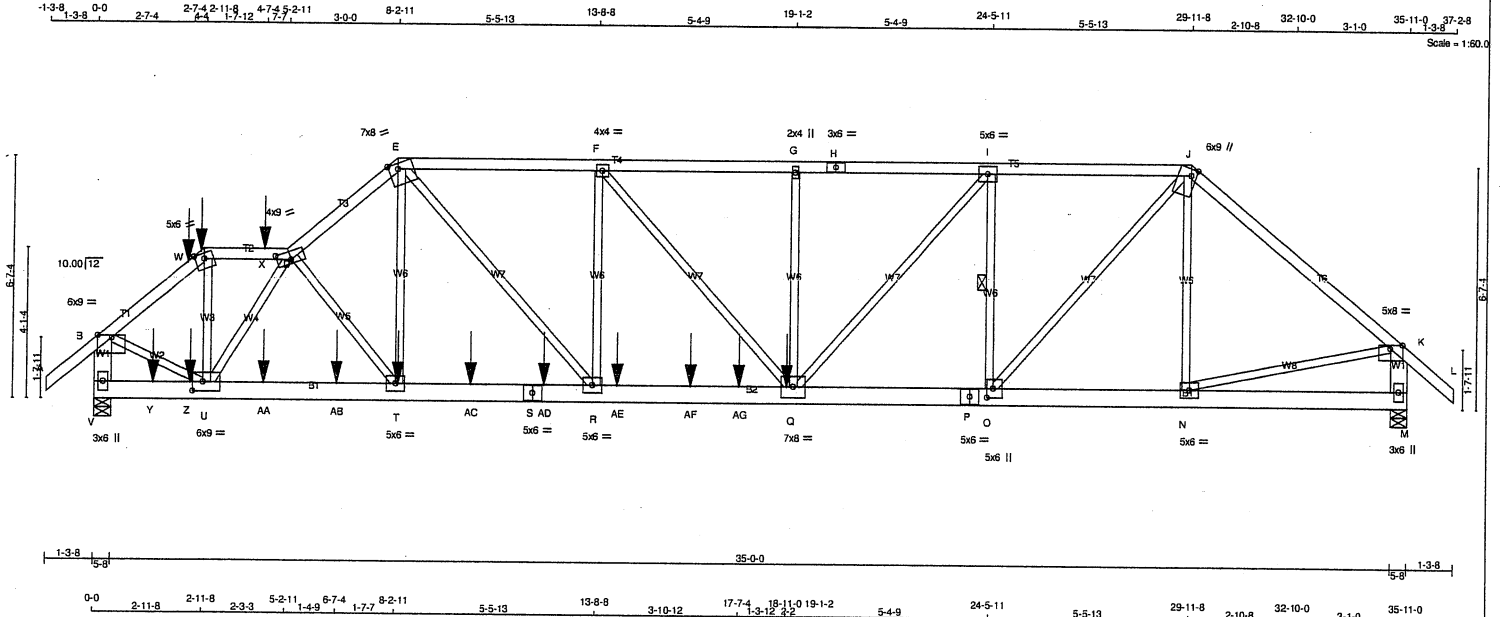
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115561 *mn*

JOB NAME 411092	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:07 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNrZ_BuP-sbsUNMeqHEWNne5icTa9hw0bgKrRI3Xh33vcbPzCxmY



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(61.0)
C-D	12	SIDE(61.0)
D-E	12	TOP
E-H	12	TOP
H-J	12	TOP
J-L	12	TOP
V-B	12	TOP
M-K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V-S	12	SIDE(183.1)
S-P	12	SIDE(183.1)
P-M	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	SIDE(398.3)
Q-G	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
V	5336	0	5336	0	0	5-8	5-8	
M	4203	0	4203	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
V	3759	2548 / 0	0 / 0	0 / 0	0 / 0	1211 / 0	0 / 0
M	2963	1998 / 0	0 / 0	0 / 0	0 / 0	965 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 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 I-O.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		W E B S		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (PLF)	LC2 MAX (PLF)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO						
A-B	0 / 41	-91.8 -91.8 0.07 (1)	10.00	U-C	0 / 2723	0.34 (1)		
B-W	-5235 / 0	-91.8 -91.8 0.20 (1)	4.09	T-E	0 / 2034	0.25 (1)		
W-C	-5235 / 0	-91.8 -91.8 0.20 (1)	4.09	N-J	-594 / 0	0.20 (1)		
C-X	-4110 / 0	-91.8 -91.8 0.14 (1)	4.58	N-K	0 / 3691	0.46 (1)		
X-D	-4110 / 0	-91.8 -91.8 0.14 (1)	4.58	B-U	0 / 4343	0.54 (1)		
D-E	-7541 / 0	-91.8 -91.8 0.28 (1)	3.39	U-D	-4836 / 0	0.78 (1)		
E-F	-7970 / 0	-91.8 -91.8 0.57 (1)	3.12	D-T	-1275 / 0	0.24 (1)		
F-G	-8538 / 0	-91.8 -91.8 0.61 (1)	2.98	O-J	0 / 4167	0.52 (1)		
G-H	-8538 / 0	-91.8 -91.8 0.62 (1)	2.97	E-R	0 / 3268	0.40 (1)		
H-I	-8538 / 0	-91.8 -91.8 0.62 (1)	2.97	O-I	-3058 / 0	0.43 (1)		
I-J	-8368 / 0	-91.8 -91.8 0.45 (1)	3.56	R-F	-1195 / 0	0.41 (1)		
J-K	-4719 / 0	-91.8 -91.8 0.60 (1)	4.00	Q-I	0 / 3318	0.41 (1)		
K-L	0 / 41	-91.8 -91.8 0.07 (1)	10.00	F-Q	0 / 888	0.11 (1)		
V-B	-5280 / 0	0.0 0.0 0.19 (1)	6.36	Q-G	-446 / 0	0.15 (1)		
M-K	-4159 / 0	0.0 0.0 0.15 (1)	7.00					
V-Y	0 / 0	-18.5 -18.5 0.02 (1)	10.00					
Y-Z	0 / 0	-18.5 -18.5 0.02 (1)	10.00					
Z-U	0 / 0	-18.5 -18.5 0.02 (1)	10.00					
U-AA	0 / 6579	-18.5 -18.5 0.54 (1)	10.00					
AA-AB	0 / 6579	-18.5 -18.5 0.54 (1)	10.00					
AB-T	0 / 6579	-18.5 -18.5 0.54 (1)	10.00					
T-AC	0 / 5806	-18.5 -18.5 0.59 (1)	10.00					
AC-S	0 / 5806	-18.5 -18.5 0.59 (1)	10.00					
S-AD	0 / 5806	-18.5 -18.5 0.59 (1)	10.00					
AD-R	0 / 5806	-18.5 -18.5 0.59 (1)	10.00					
R-AE	0 / 7970	-18.5 -18.5 0.73 (1)	10.00					
AE-AF	0 / 7970	-18.5 -18.5 0.73 (1)	10.00					
AF-AG	0 / 7970	-18.5 -18.5 0.73 (1)	10.00					
AG-Q	0 / 7970	-18.5 -18.5 0.73 (1)	10.00					
Q-P	0 / 6369	-18.5 -18.5 0.44 (1)	10.00					
P-O	0 / 6369	-18.5 -18.5 0.44 (1)	10.00					
O-N	0 / 3609	-18.5 -18.5 0.26 (1)	10.00					
N-M	0 / 0	-18.5 -18.5 0.04 (1)	10.00					

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN 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 (0.22")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.39")

CSI: TC=0.62/1.00 (G-I:1), BC=0.73/1.00 (Q-R:1),
WB=0.78/1.00 (D-U:1), SSI=0.25/1.00 (Q-R:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR 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 (D) (INPUT = 0.90)
JSI METAL= 0.64 (E) (INPUT = 1.00)



Structural component only
DWG# T-2115569

CONTINUED ON PAGE 2

JOB NAME 411092	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:07 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-sbsUNMeqHEWNne5lcTa9hw0bgKrRI3Xh33vcbPzCxmY

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	6.0	9.0	Edge	
C	TTW-m	MT20	5.0	6.0	Edge	
D	TTWW-m	MT20	4.0	9.0	2.75	4.50
E	TTWW-m	MT20	7.0	8.0	Edge	3.00
F	TMWW-t	MT20	4.0	4.0		
G	TMW-w	MT20	2.0	4.0		
H	TS-t	MT20	3.0	6.0		
I	TMWW-t	MT20	5.0	6.0		
J	TTWW+m	MT20	6.0	9.0	Edge	1.75
K	TMVW-p	MT20	5.0	8.0	Edge	
M	BMV1+p	MT20	3.0	6.0		
N, R, T						
N	BMWW-t	MT20	5.0	6.0		
O	BMWW-t	MT20	5.0	6.0	3.00	2.00
P	BS-t	MT20	5.0	6.0		
Q	BMWWW-t	MT20	7.0	8.0		
S	BS-t	MT20	5.0	6.0		
U	BMWWW-t	MT20	6.0	9.0	3.00	3.50
V	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

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

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
Q	18-11-0	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
T	8-3-7	-253	-253	---	BACK	VERT	TOTAL	---	C1
W	2-7-4	-97	-97	---	BACK	VERT	TOTAL	---	C1
X	4-7-4	-86	-86	---	BACK	VERT	TOTAL	---	C1
Y	1-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
Z	2-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AA	4-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AB	6-7-4	-253	-253	---	BACK	VERT	TOTAL	---	C1
AC	10-3-7	-253	-253	---	BACK	VERT	TOTAL	---	C1
AD	12-3-7	-253	-253	---	BACK	VERT	TOTAL	---	C1
AE	14-3-7	-253	-253	---	BACK	VERT	TOTAL	---	C1
AF	16-3-7	-253	-253	---	BACK	VERT	TOTAL	---	C1
AG	17-7-4	-253	-253	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

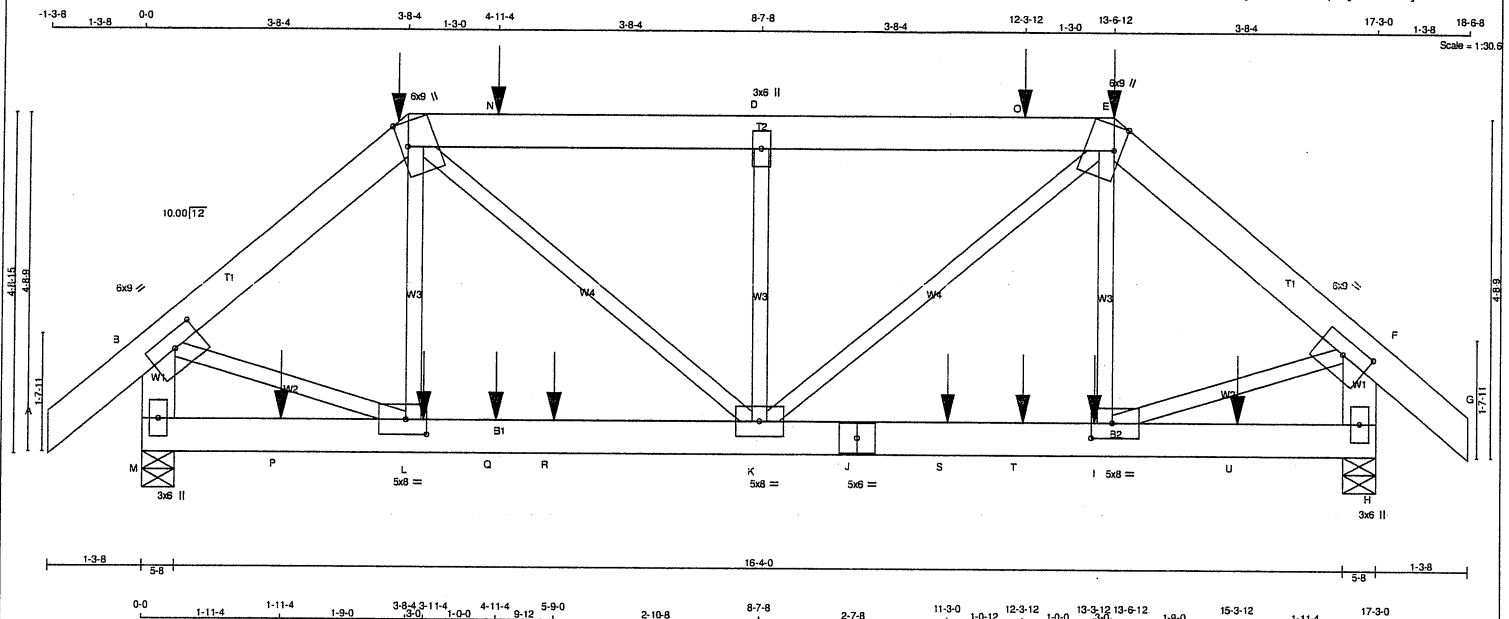


Structural component only
DWG# T-2115569 *rn*

JOB NAME 411092	TRUSS NAME T21	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:08 2021 Page 1
ID:SljNvppp5g6zUZNcVvZo_yzRbu-KoPsaifS2YeEPnfYAA5OE7ZpXj9Z1Y7rje97rzCxmX



TOTAL WEIGHT = 101 lb

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

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW-t	MT20	6.0	9.0	2.50 4.50
C TTWW+m	MT20	6.0	9.0	4.00 1.25
D TMW+w	MT20	3.0	6.0	
E TTWW+m	MT20	6.0	9.0	4.00 1.25
F TMVW-t	MT20	6.0	9.0	2.50 4.50
H BMV1+p	MT20	3.0	6.0	
I BMVW-t	MT20	5.0	8.0	2.50 3.50
J BS-t	MT20	5.0	6.0	
K BMVWW-t	MT20	5.0	8.0	
L BMVW-t	MT20	5.0	8.0	2.50 3.50
M BMV1+p	MT20	3.0	6.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
M	3339	0	3339	0	0	5-8	5-8	5-8	5-8
H	3314	0	3314	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
M	2356	1576 / 0	0 / 0	0 / 0	0 / 0	780 / 0	0 / 0
H	2339	1564 / 0	0 / 0	0 / 0	0 / 0	774 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 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	MEMB.	MAX. FACTORED
	FORCE (LBS)		FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 42	L-C	-15 / 174
B-C	-3513 / 0	C-K	0 / 1541
C-N	-3857 / 0	K-D	-1021 / 0
D-O	-3857 / 0	D-E	0 / 1571
E-F	-3857 / 0	E-I	-53 / 162
F-G	-3484 / 0	I-F	0 / 2800
G-H	0 / 42	H-G	0 / 2777
H-I	-3353 / 0		
I-J	-3329 / 0		
J-K	0 / 0		
K-L	0 / 0		
L-M	0 / 2686		
M-N	0 / 2686		
N-O	0 / 2686		
O-P	0 / 2663		
P-Q	0 / 2663		
Q-R	0 / 2663		
R-S	0 / 2663		
S-T	0 / 2663		
T-U	0 / 0		
U-V	0 / 0		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-8-4	-250	-250	---	FRONT	VERT	TOTAL	---	C1
C	3-8-4	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	3-8-4	-170	-170	---	FRONT	VERT	SNOW	---	C1
E	13-6-12	-250	-250	---	FRONT	VERT	TOTAL	---	C1
E	13-6-12	-40	-40	---	FRONT	VERT	DEAD	---	C1
E	13-6-12	-170	-170	---	FRONT	VERT	SNOW	---	C1
I	13-3-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
L	3-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
N	4-11-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
O	12-3-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
P	1-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
Q	4-11-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
R	5-9-0	-608	-608	---	FRONT	VERT	TOTAL	---	C1
S	11-3-0	-608	-608	---	FRONT	VERT	TOTAL	---	C1
T	12-3-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1
U	15-3-12	-21	-21	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 3-8-4
END SETBACK = 5-10-8
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF 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 (0.57")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.42/1.00 (D-E:1), BC=0.87/1.00 (H-K:1), WB=0.69/1.00 (B-L:1), SS=0.38/1.00 (K-L:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

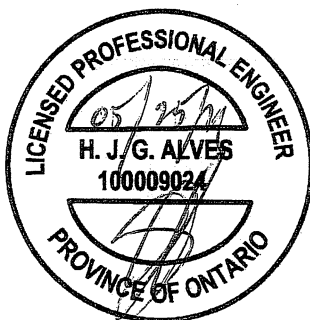
AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115570

JOB NAME 411092	TRUSS NAME T21	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:08 2021 Page 2
ID:SljiNvppp5g6zUZNcVvZo_vzRbu-KoPsaifS2YeEPnfyAA5OE7ZpXj9Z1Y7rlje97rzCxmX

CONNECTION REQUIREMENTS

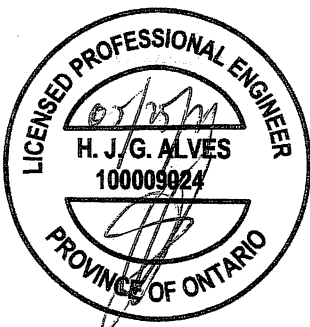
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.61 (B) (INPUT = 1.00)

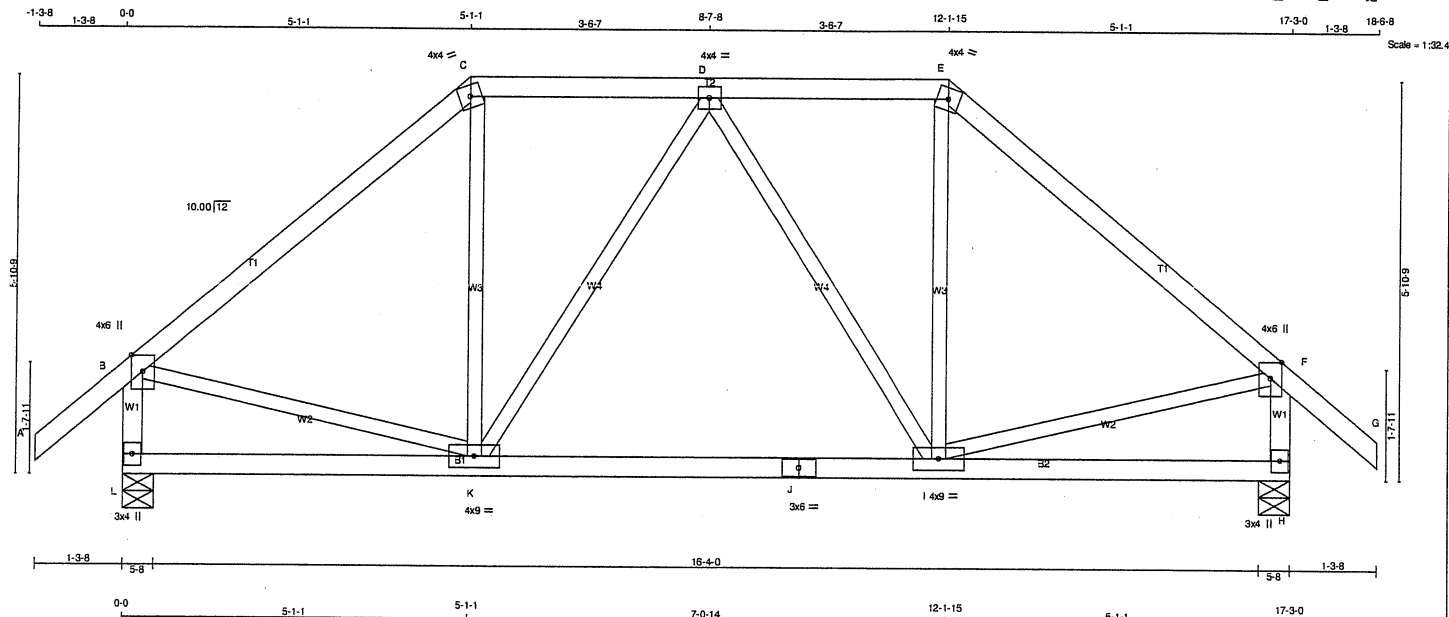


Structural component only
DWG# T-2115570 *m*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411092	T22	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:09 2021 Page 1
ID:GAonzd6DLBr2xE89xtNtRz_BuP-o_zEo2g4prn51xE8juddmL50w7f_m7N_XMOjgHzCxmW



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	6.0	Edge	
C TTW-m	MT20	4.0	4.0		
D TMVW-t	MT20	4.0	4.0		
E TTW-m	MT20	4.0	4.0		
F TMVW+p	MT20	4.0	6.0	Edge	
H BMV1+p	MT20	3.0	4.0		
I BMVWW-t	MT20	4.0	9.0		
J BS-t	MT20	3.0	6.0		
K BMVWW-t	MT20	4.0	9.0		
L BMV1+p	MT20	3.0	4.0		

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

NOTES:

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
L	1078	0	1078	0	0	5-8	5-8	5-8	5-8
H	1078	0	1078	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	760	512/0	0/0	0/0	0/0	248/0	0/0
H	760	512/0	0/0	0/0	0/0	248/0	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			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1)	MAX. UNBRAC (LC)	MEMB.	FORCE (LBS)	MAX. FACTORED (LC1)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0/41	-91.8	-91.8	0.13 (1)	10.00	K-C	0/164
B-C	-818/0	-91.8	-91.8	0.32 (1)	6.25	D-I	-229/0
C-D	-632/0	-91.8	-91.8	0.15 (1)	6.25	K-D	-229/0
D-E	-632/0	-91.8	-91.8	0.15 (1)	6.25	I-E	0/164
E-F	-818/0	-91.8	-91.8	0.32 (1)	6.25	B-K	0/646
F-G	0/41	-91.8	-91.8	0.13 (1)	10.00	I-F	0/646
L-B	-1041/0	0.0	0.0	0.11 (1)	7.70		
H-F	-1041/0	0.0	0.0	0.11 (1)	7.70		
L-K	0/0	-18.5	-18.5	0.16 (4)	10.00		
K-J	0/750	-18.5	-18.5	0.22 (4)	10.00		
J-I	0/750	-18.5	-18.5	0.22 (4)	10.00		
I-H	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 (0.57")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.57")
CALCULATED VERT. DEFL.(TL)= L/999 (0.05")

CSI: TC=0.32/1.00 (B-C:1), BC=0.22/1.00 (H-K:4), WB=0.18/1.00 (D-I:1), SSI=0.16/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.65 (B) (INPUT = 0.90)
JSI METAL= 0.44 (B) (INPUT = 1.00)



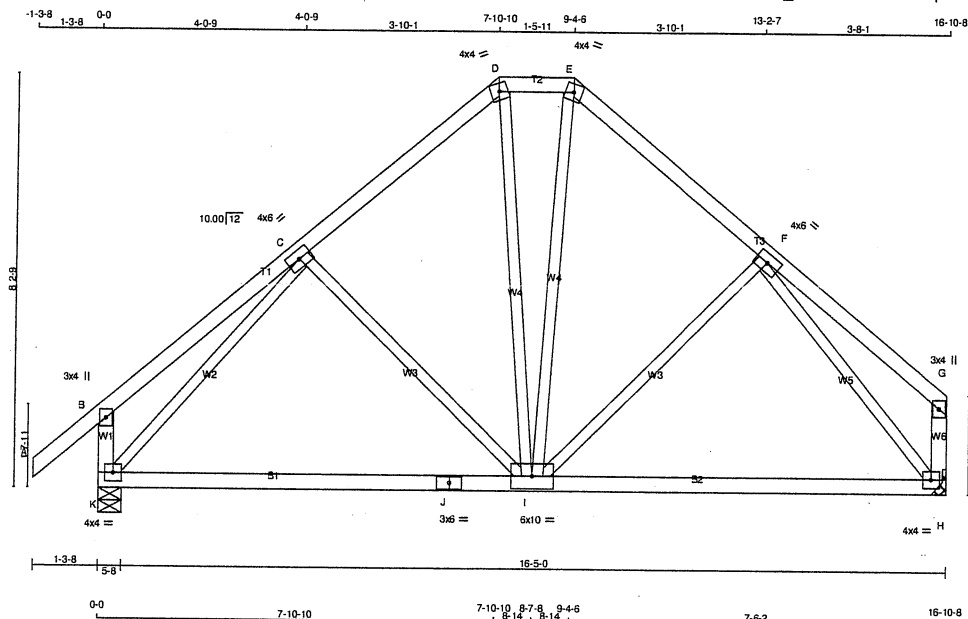
Structural component only
DWG# T-2115571



Structural component only
DWG# T-2115572

JOB NAME 411092	TRUSS NAME T24A	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:11 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-IN5?DkhKLT1pGFOXrJf5mBNxi7EwRH_gtpkAzCxmU



TOTAL WEIGHT = 81 lb
[M/F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	6.0		
D	TTW-m	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMWW-t	MT20	4.0	6.0		
G	TMV+p	MT20	3.0	4.0		
H	BMVW-t	MT20	4.0	4.0		
I	BMVWW-t	MT20	6.0	10.0		
J	BS-t	MT20	3.0	6.0		
K	BMVW-t	MT20	4.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
K	VERT	1057	0	1057	0
H	HORIZ	930	0	930	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
K	COMBINED	745	503 / 0	0 / 0	243 / 0	0 / 0
H	COMBINED	658	432 / 0	0 / 0	226 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO				FR-TO			
A-B	0 / 41	-91.8	-91.8 0.13 (1)	C-I	-186 / 0	0.14 (1)	
B-C	0 / 27	-91.8	-91.8 0.23 (1)	I-F	-125 / 3	0.10 (1)	
C-D	-672 / 0	-91.8	-91.8 0.18 (1)	K-C	-964 / 0	0.59 (1)	
D-E	-513 / 0	-91.8	-91.8 0.03 (1)	F-H	-954 / 0	0.53 (1)	
E-F	-670 / 0	-91.8	-91.8 0.17 (1)	D-I	0 / 208	0.05 (1)	
F-G	0 / 27	-91.8	-91.8 0.21 (1)	I-E	0 / 204	0.05 (1)	
K-B	-264 / 0	0.0	0.0 0.03 (1)				
H-G	-120 / 0	0.0	0.0 0.01 (1)				
K-J	0 / 627	-18.5	-18.5 0.43 (4)				
J-I	0 / 627	-18.5	-18.5 0.43 (4)				
I-H	0 / 584	-18.5	-18.5 0.43 (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 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 (0.56")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.56")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.23/1.00 (B-C:1), BC=0.43/1.00 (H-K:4), WB=0.59/1.00 (C-K:1), SSI=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

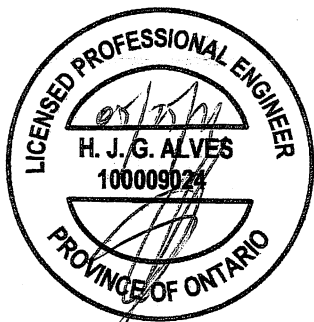
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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 (K) (INPUT = 0.90)
JSI METAL= 0.24 (J) (INPUT = 1.00)

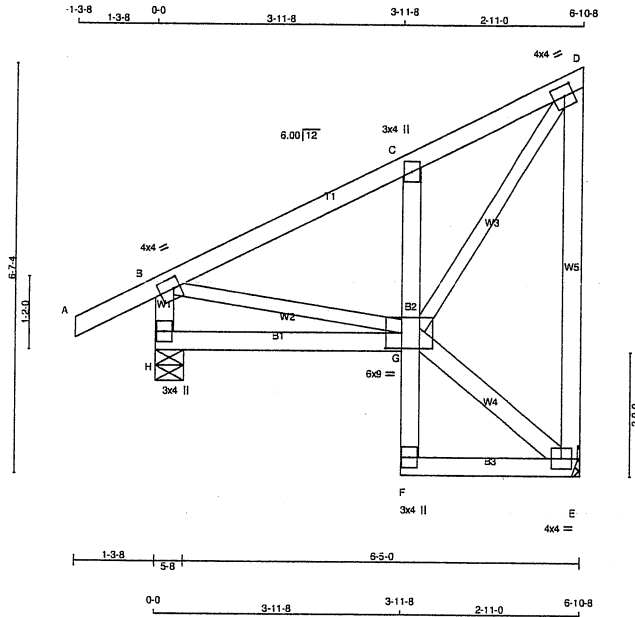


Structural component only
DWG# T-2115573

JOB NAME 411092	TRUSS NAME T25S	QUANTITY 6	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:12 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-DZfNQ3iy6m9fuPzjO0AKOzjXFLjezVIQDKcNGczCxmT



TOTAL WEIGHT = 6 X 42 = 249 lb
[M](F)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TMV+p	MT20	3.0	4.0		
D	TMVW-t	MT20	4.0	4.0	2.00	1.75
E	BMVW1-t	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BMVWW1-t	MT20	6.0	9.0	3.00	3.00
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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
H	503	0	503	0	5-8	5-8
E	379	0	379	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	354	245 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0
E	268	176 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO						
H-B	-466 / 0	0.0	0.0	0.05 (1)	7.81	B-G 0 / 273
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	G-E -9 / 0
B-C	-284 / 0	-91.8	-91.8	0.16 (1)	6.25	G-D 0 / 467
C-D	-305 / 0	-91.8	-91.8	0.14 (1)	6.25	
E-D	-348 / 0	0.0	0.0	0.31 (1)	7.81	
H-G	0 / 0	-18.5	-18.5	0.09 (4)	10.00	
F-G	0 / 29	0.0	0.0	0.02 (1)	10.00	
G-C	-390 / 0	0.0	0.0	0.02 (1)	7.81	
F-E	0 / 7	-18.5	-18.5	0.04 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.23")
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=0.31/1.00 (D-E:1), BC=0.09/1.00 (G-H:4), WB=0.11/1.00 (D-G:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (D) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)

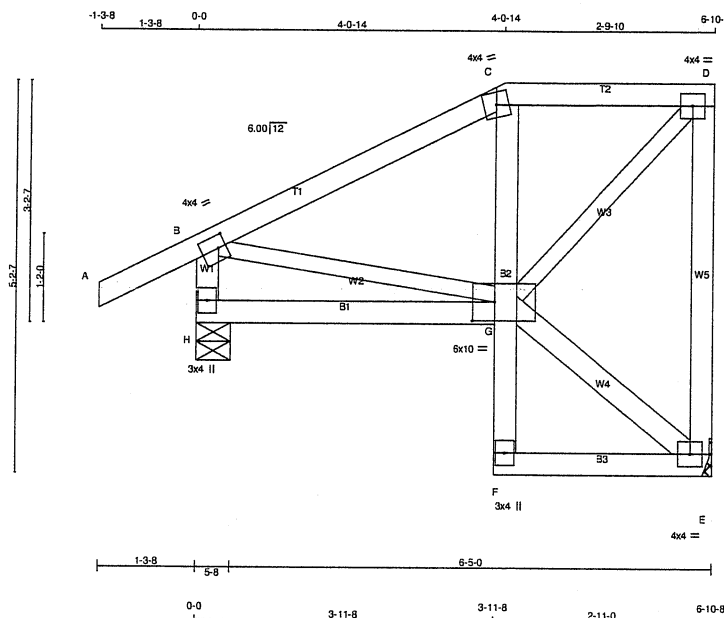


Structural component only
DWG# T-2115574

JOB NAME 411092	TRUSS NAME T26S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:13 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-hiDiePjat4HWVZYvykhZxBGkzk2iy6aR_MwpZzCxmS



TOTAL WEIGHT = 39 lb

LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N. L. G. A. RULES				
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
H - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
F - C	2x4	DRY	No.2	SPF
F - E	2x4	DRY	No.2	SPF
ALL WEBS	2x4	DRY	No.2	SPF
EXCEPT				
G - D	2x3	DRY	No.2	SPF
B - G	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	1.25
C	TTV-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BMVW-t	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BVMWVW-l	MT20	6.0	10.0	3.00	3.50
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	DOWN	IN-SX	IN-SX
E	379	0	0	MECHANICAL
H	503	0	0	5-8

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	WIND	DEAD	SOIL
E	268	176 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0
H	354	245 / 0	0 / 0	0 / 0	0 / 0	108 / 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 = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	LC2 MAX	UNBRAC LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX	CSI (LC)
FR-TO		FROM	TO			FR-TO			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	G-E	-4 / 0	0.00 (1)	
B-C	-249 / 0	-91.8	-91.8	0.18 (1)	6.25	G-D	0 / 303	0.07 (1)	
C-D	-209 / 0	-91.8	-91.8	0.10 (1)	6.25	B-G	0 / 227	0.05 (1)	
E-D	-351 / 0	0.0	0.0	0.16 (1)	7.81				
H-B	-466 / 0	0.0	0.0	0.05 (1)	7.81				
H-G	0 / 0	-18.5	-18.5	0.09 (4)	10.00				
F-G	0 / 29	0.0	0.0	0.01 (1)	10.00				
G-C	-205 / 0	0.0	0.0	0.01 (1)	7.81				
F-E	0 / 4	-18.5	-18.5	0.04 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.18/1.00 (B-C:1), BC=0.09/1.00 (G-H:4), WB=0.07/1.00 (D-G:1), SSI=0.13/1.00 (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.

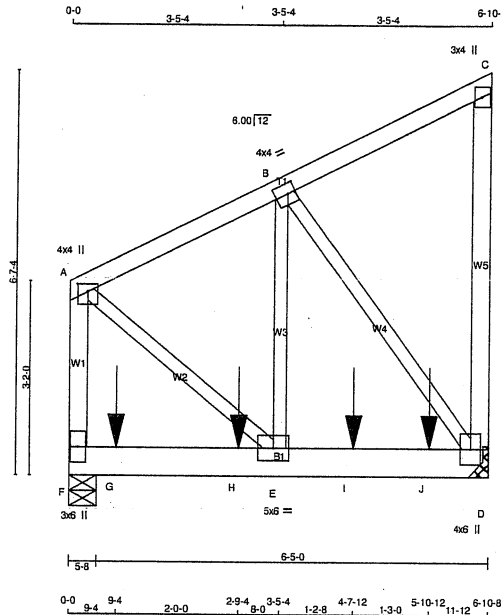
JSI GRIP= 0.38 (B) (INPUT = 0.90)
JSI METAL= 0.13 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115575

JOB NAME 411092	TRUSS NAME T27	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:GAonzd6DLBrd2xE89xtNtRz_BuP-9yn7rJDeNPN7i75WRCoToPwg8K7RKjge5ULVzCxmR



Scale = 1:35.9

TOTAL WEIGHT = 2 X 42 = 83 lb [M]

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 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	1.50 2.00
B	TMVW-i	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	
E	BMVW-i	MT20	5.0	6.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
F	2160	0	2160	0	5-8	5-8
D	2247	0	2247	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	1524	1018 / 0	0 / 0	0 / 0	0 / 0	506 / 0	0 / 0
D	1586	1060 / 0	0 / 0	0 / 0	0 / 0	525 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
F-A	-1461 / 0	0.0	0.0 0.12 (1)	7.81	A-E	0 / 1315	0.16 (1)
A-B	-1129 / 0	-91.8	-91.8 0.09 (1)	6.25	E-B	0 / 1465	0.18 (1)
B-C	-15 / 0	-91.8	-91.8 0.09 (1)	6.25	B-D	-1684 / 0	0.43 (1)
D-C	-123 / 0	0.0	0.0 0.05 (1)	7.81			
F-G	0 / 0	-18.5	-18.5 0.28 (1)	10.00			
G-H	0 / 0	-18.5	-18.5 0.28 (1)	10.00			
H-E	0 / 0	-18.5	-18.5 0.28 (1)	10.00			
E-I	0 / 1023	-18.5	-18.5 0.35 (1)	10.00			
I-J	0 / 1023	-18.5	-18.5 0.35 (1)	10.00			
J-D	0 / 1023	-18.5	-18.5 0.35 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	9-4	-645	-645	---	BACK	VERT	TOTAL	---	C1
H	2-9-4	-643	-643	---	BACK	VERT	TOTAL	---	C1
I	4-7-12	-643	-643	---	BACK	VERT	TOTAL	---	C1
J	5-10-12	-643	-643	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.23")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.23")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.12/1.00 (A-F:1), BC=0.35/1.00 (D-E:1), WB=0.43/1.00 (B-D:1), SSI=0.39/1.00 (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.

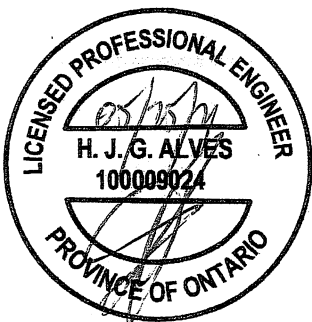
NAIL VALUES

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= 0.79 (B) (INPUT = 0.90)
JSI METAL= 0.23 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115576

CONTINUED ON PAGE 2

JOB NAME 411092	TRUSS NAME T27	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:15 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-d8LW25krOnXEIsil48j10cL5QYqMAnvsvlr1bzCxmQ

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

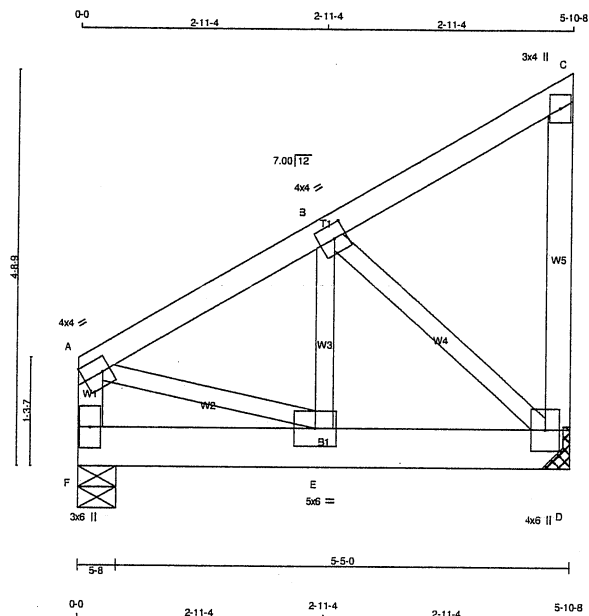


Structural component only
DWG# T-2115576 *m*

JOB NAME 411092	TRUSS NAME T28	QUANTITY 2	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:35:16 2021 Page 1
ID:SljiNvppp5g6zUZncVvZo_yzRbu-5KuuGRIT9?f5M0HUdsFGYpuG3y4VvJM08yaaQNZCxmP



TOTAL WEIGHT = 4 X 30 = 122 lb

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 (94.7)
WEBS : (0.122"x3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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	Edge
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		
F BMV1+p	MT20	3.0	6.0		

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
F	881	0	881	0	0	5-8	5-8		
D	881	0	881	0	0	MECHANICAL			

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	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	623	409 / 0	0 / 0	0 / 0	0 / 0	214 / 0	0 / 0
D	623	409 / 0	0 / 0	0 / 0	0 / 0	214 / 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.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
F-A	-623 / 0	0.0	0.0	0.03 (1)	7.81	A-E	0 / 611
A-B	-662 / 0	-91.8	-91.8	0.07 (1)	6.25	E-B	0 / 530
B-C	-15 / 0	-91.8	-91.8	0.06 (1)	6.25	B-D	-781 / 0
D-C	-105 / 0	0.0	0.0	0.02 (1)	7.81		
F-E	0 / 0	-208.0	-208.0	0.06 (1)	10.00		
E-D	0 / 584	-208.0	-208.0	0.10 (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

GIRDER TYPE: CStd Girder
START DISTANCE = 0-0
START SPAN CARRIED = 9-0-0
END DISTANCE = 5-10-8
END SPAN CARRIED = 9-0-0
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.07/1.00 (A-B:1), BC=0.10/1.00 (D-E:1), WB=0.10/1.00 (B-D:1), SS=0.12/1.00 (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= 0.53 (A) (INPUT = 0.90)
JSI METAL= 0.13 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115577

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 15:26:02 2021 Page 1
ID:GAonzd6DLBr2xe89xtNtRz_BuP-vKyPYzc6qtQvo78v4auZ792jupZxbwnMzSrRnJqzCx0p

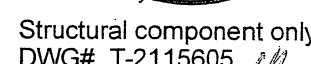
-1-3-8 0-0 4-0-10 4-0-10 7-0-1 11-0-11 6-10-13 17-11-8 6-10-13 24-10-5 7-0-1 31-10-5 32-2-12 3-8-4 35-11-0 37-2-8
Scale = 1:50



LOADING
TOTAL LOAD CASES: (4)

S-AG	0 / 0	-18.5	-18.5	0.08 (4)	10.00
AG-AH	0 / 0	-18.5	-18.5	0.08 (4)	10.00
AH-AI	0 / 0	-18.5	-18.5	0.08 (4)	10.00
AI- R	0 / 0	-18.5	-18.5	0.08 (4)	10.00
R-AJ	0 / 3588	-18.5	-18.5	0.28 (1)	10.00
AJ-AK	0 / 3588	-18.5	-18.5	0.28 (1)	10.00
AK-AL	0 / 3588	-18.5	-18.5	0.28 (1)	10.00
AL- Q	0 / 3588	-18.5	-18.5	0.28 (1)	10.00
Q-AM	0 / 7487	-18.5	-18.5	0.55 (1)	10.00
AM- P	0 / 7487	-18.5	-18.5	0.55 (1)	10.00
P-AN	0 / 7487	-18.5	-18.5	0.55 (1)	10.00
AN-AO	0 / 7487	-18.5	-18.5	0.55 (1)	10.00
AO- O	0 / 7487	-18.5	-18.5	0.55 (1)	10.00
O-AP	0 / 7515	-18.5	-18.5	0.56 (1)	10.00
AP-AQ	0 / 7515	-18.5	-18.5	0.56 (1)	10.00
AQ- N	0 / 7515	-18.5	-18.5	0.56 (1)	10.00
N-AR	0 / 7515	-18.5	-18.5	0.56 (1)	10.00

JSI METAL= 0.72 (P) (INPUT = 1.00)



JOB NAME 419011	TRUSS NAME T30	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 15:26:02 2021 Page 2 ID:GAonzd6DLBrd2xE89xtNtRz BuP-vKyPYzc6qtQvo78v4auZ?92jupZxbwMZsRnJqzCx0p	

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	7.0	8.0	3.00	2.00
D	TMVW-t	MT20	5.0	6.0		
E	TMVW-w	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMVW-t	MT20	5.0	6.0		
H	TTWW-m	MT20	7.0	8.0	3.00	2.00
I	TMVW-p	MT20	5.0	6.0	1.50	3.00
K	BMV1+p	MT20	3.0	6.0		
L, M, Q, R						
L	BMVW-t	MT20	5.0	6.0		
N	BS-t	MT20	5.0	6.0		
O	BMVWW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	6.0		
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

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					
M-AS	0 / 3653	-18.5	-18.5	0.28 (1)	10.00		
AS-AT	0 / 3653	-18.5	-18.5	0.28 (1)	10.00		
AT-AU	0 / 3653	-18.5	-18.5	0.28 (1)	10.00		
AU-L	0 / 3653	-18.5	-18.5	0.28 (1)	10.00		
L-AV	0 / 0	-18.5	-18.5	0.07 (4)	10.00		
AV-AW	0 / 0	-18.5	-18.5	0.07 (4)	10.00		
AW-K	0 / 0	-18.5	-18.5	0.07 (4)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIRL	TYPE	HEEL	CONN.
C	4-0-10	-41	-41	---	FRONT	VERT	DEAD	---	C1
C	4-0-10	-173	-173	---	FRONT	VERT	SNOW	---	C1
D	11-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
E	17-11-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
F	20-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
H	31-10-6	-41	-41	---	FRONT	VERT	DEAD	---	C1
H	31-10-6	-173	-173	---	FRONT	VERT	SNOW	---	C1
N	22-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
O	17-11-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
Q	11-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
T	5-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
U	7-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
V	9-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
W	13-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
X	15-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
Y	17-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
Z	18-4-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AA	22-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AB	24-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AC	26-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AD	28-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AE	30-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AF	32-2-12	-96	-96	---	BACK	VERT	TOTAL	---	C1
AG	1-8-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AH	2-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AI	3-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AJ	5-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AK	7-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AL	9-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AM	13-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AN	15-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AO	17-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AP	18-4-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AQ	20-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AR	24-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AS	26-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AT	28-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AU	30-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AV	32-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AW	34-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1

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

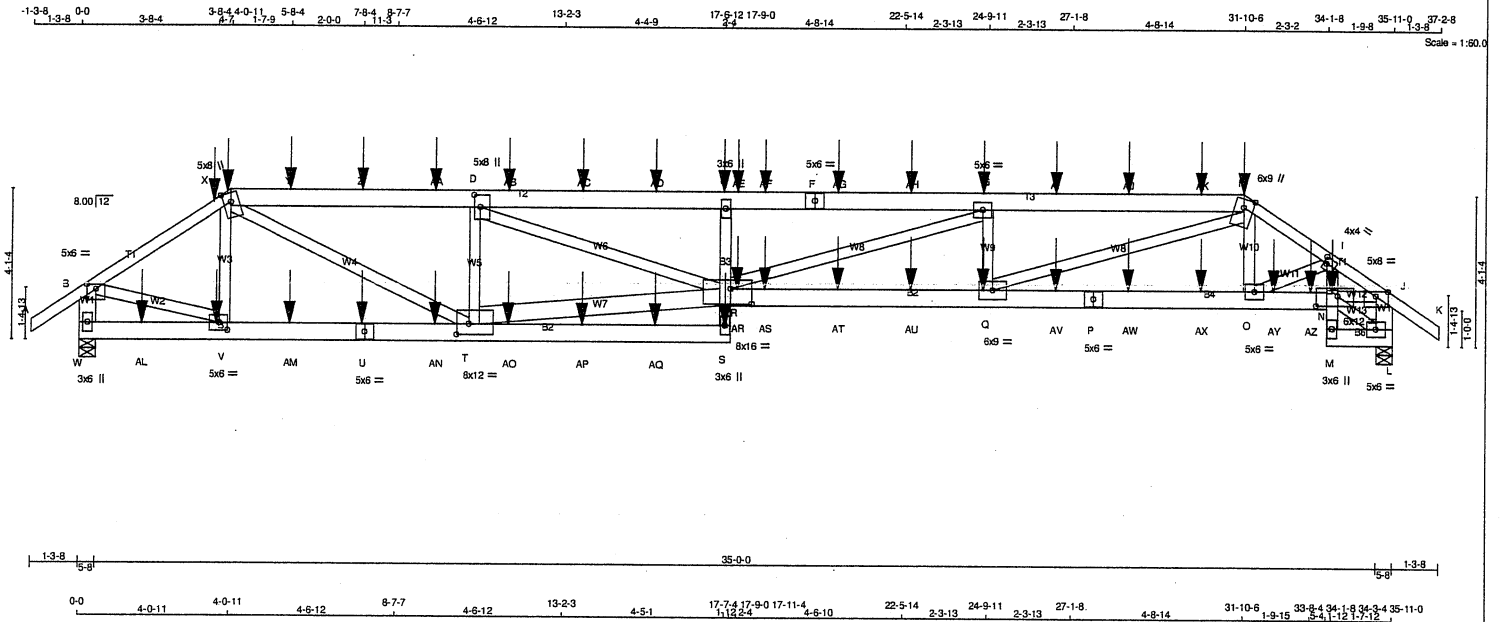


Structural component only
DWG# T-2115605

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411094	T30S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Tue May 25 14:54:28 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-MyVO2Lh4syoea2Lu7ovPFic?VK2lQDDa1BeYrczCxUP



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - F	2x6	DRY	No.2	SPF	
F - H	2x6	DRY	No.2	SPF	
H - K	2x4	DRY	No.2	SPF	
W - B	2x6	DRY	No.2	SPF	
L - J	2x6	DRY	No.2	SPF	
W - U	2x6	DRY	No.2	SPF	
U - S	2x6	DRY	No.2	SPF	
S - E	2x4	DRY	No.2	SPF	
R - P	2x6	DRY	No.2	SPF	
P - N	2x6	DRY	No.2	SPF	
M - I	2x4	DRY	No.2	SPF	
M - L	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
H - K	1	12
C - F	2	12
F - H	2	12
W - B	2	12
L - J	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W - U	2	12
U - S	2	12
R - P	2	12
P - N	2	12
M - L	2	12
S - E	1	12
I - M	1	12
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 BRG	REQRD BRG
JT	VERT	HORZ	UP/LIFT	IN-SX
W	3792	0	3792	0
L	4028	0	4028	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
W	2679	1772 / 0	0 / 0	0 / 0	0 / 0	907 / 0
L	2849	1866 / 0	0 / 0	0 / 0	0 / 0	983 / 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 = 2.98 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
MEMB.					MEMB.		
FR-TO					FR-TO		
A - B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	V - C	-769 / 0
B - X	-4466 / 0	-91.8	-91.8	0.26 (1)	4.32	C - T	0 / 4689
X - C	-4466 / 0	-91.8	-91.8	0.26 (1)	4.32	T - D	-3159 / 0
C - Y	-7873 / 0	-91.8	-91.8	0.39 (1)	3.99	D - R	0 / 7671
Y - Z	-7873 / 0	-91.8	-91.8	0.39 (1)	3.99	R - R	0 / 5447
Z - AA	-7873 / 0	-91.8	-91.8	0.39 (1)	3.99	O - H	0 / 523
AA - D	-7873 / 0	-91.8	-91.8	0.39 (1)	3.99	O - I	-279 / 0
D - AB	-13097 / 0	-91.8	-91.8	0.63 (1)	2.98	B - V	0 / 3874
AB - AC	-13097 / 0	-91.8	-91.8	0.63 (1)	2.98	N - L	-286 / 0
AC - AD	-13097 / 0	-91.8	-91.8	0.63 (1)	2.98	N - J	0 / 5571
AD - E	-13097 / 0	-91.8	-91.8	0.63 (1)	2.98	Q - G	-1827 / 0
E - AE	-13257 / 0	-91.8	-91.8	0.62 (1)	3.00	R - G	0 / 1814
AE - AF	-13257 / 0	-91.8	-91.8	0.62 (1)	3.00	Q - H	0 / 6441
AF - F	-13257 / 0	-91.8	-91.8	0.62 (1)	3.00		
F - AG	-13257 / 0	-91.8	-91.8	0.62 (1)	3.00		
AG - AH	-13257 / 0	-91.8	-91.8	0.62 (1)	3.00		
AH - G	-13257 / 0	-91.8	-91.8	0.62 (1)	3.00		
G - AI	-11554 / 0	-91.8	-91.8	0.55 (1)	3.25		
AI - AJ	-11554 / 0	-91.8	-91.8	0.55 (1)	3.25		
AJ - AK	-11554 / 0	-91.8	-91.8	0.55 (1)	3.25		
AK - H	-11554 / 0	-91.8	-91.8	0.55 (1)	3.25		
H - I	-6821 / 0	-91.8	-91.8	0.25 (1)	3.62		
I - J	-6760 / 0	-91.8	-91.8	0.23 (1)	3.60		
J - K	0 / 35	-91.8	-91.8	0.07 (1)	10.00		
W - B	-3759 / 0	0.0	0.0	0.13 (1)	7.28		
L - J	-3859 / 0	0.0	0.0	0.14 (1)	7.20		
W - AL	0 / 0	-18.5	-18.5	0.05 (4)	10.00		
AL - V	0 / 0	-18.5	-18.5	0.05 (4)	10.00		
V - AM	0 / 3784	-18.5	-18.5	0.29 (1)	10.00		
AM - U	0 / 3784	-18.5	-18.5	0.29 (1)	10.00		
U - AN	0 / 3784	-18.5	-18.5	0.29 (1)	10.00		
AN - T	0 / 3784	-18.5	-18.5	0.29 (1)	10.00		
T - AO	0 / 422	-18.5	-18.5	0.10 (4)	10.00		
AO - AP	0 / 422	-18.5	-18.5	0.10 (4)	10.00		
AP - AQ	0 / 422	-18.5	-18.5	0.10 (4)	10.00		
AQ - S	0 / 422	-18.5	-18.5	0.10 (4)	10.00		
S - R	0 / 130	0.0	0.0	0.33 (1)	10.00		
R - E	-1058 / 0	0.0	0.0	0.33 (1)	7.81		
R - AR	0 / 11554	-18.5	-18.5	0.91 (1)	10.00		
AR - AS	0 / 11554	-18.5	-18.5	0.91 (1)	10.00		
AS - AT	0 / 11554	-18.5	-18.5	0.91 (1)	10.00		
AT - AU	0 / 11554	-18.5	-18.5	0.91 (1)	10.00		

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

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 (0.40")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/573 (0.75")

CSI: TC=0.63/1.00 (D-E:1), BC=0.91/1.00 (Q-R:1),
WB=0.57/1.00 (H-Q: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

AUTOSOLVE HEELS OFF

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

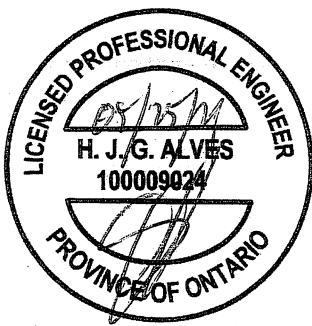
NAIL VALUES

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

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115582

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411094	T30S	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:28 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-MYVO2Lh4syoea2Lu7ovPFic?VK2lgDDa1BeYrczCxUP

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	1.50	3.00
C	TTWW+m	MT20	5.0	8.0	Edge	
D	TMVW+t	MT20	5.0	8.0	4.00	2.00
E	TMV+p	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMVW-t	MT20	5.0	6.0		
H	TTWW+m	MT20	6.0	9.0	Edge	
I	TMVW-t	MT20	4.0	4.0	2.00	1.00
J	TMVW-p	MT20	5.0	8.0	Edge	
L	BMVW1-t	MT20	5.0	6.0		
M	BMV+p	MT20	3.0	6.0		
N	BVMWW-t	MT20	6.0	12.0	3.25	7.00
O	BMVW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	6.0	9.0		
R	BVMWWW-t	MT20	8.0	16.0	5.00	7.00
S	BMV+p	MT20	3.0	6.0		
T	BMVWW-t	MT20	8.0	12.0	3.50	4.00
U	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	5.0	6.0	2.50	2.75
W	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. FACTORED CS1 (LC)	MAX. UNBRAC	MEMB. MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		LENGTH FR-TO	
AU-Q	0/11554	-18.5	-18.5	0.91 (1)	10.00
Q-AV	0/5531	-18.5	-18.5	0.48 (1)	10.00
AV-P	0/5531	-18.5	-18.5	0.48 (1)	10.00
P-AW	0/5531	-18.5	-18.5	0.48 (1)	10.00
AW-AX	0/5531	-18.5	-18.5	0.48 (1)	10.00
AX-O	0/5531	-18.5	-18.5	0.48 (1)	10.00
O-AY	0/5808	-18.5	-18.5	0.50 (1)	10.00
AY-AZ	0/5808	-18.5	-18.5	0.50 (1)	10.00
AZ-N	0/5808	-18.5	-18.5	0.50 (1)	10.00
M-N	0/17	0.0	0.0	0.19 (1)	10.00
N-I	0/172	0.0	0.0	0.20 (1)	10.00
M-L	0/241	-18.5	-18.5	0.02 (1)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-40	-40	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-173	-173	---	FRONT	VERT	SNOW	---	C1
E	17-6-12	-76	-76	---	FRONT	VERT	TOTAL	---	C1
G	24-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
H	31-10-6	-40	-40	---	FRONT	VERT	DEAD	---	C1
H	31-10-6	-173	-173	---	FRONT	VERT	SNOW	---	C1
N	34-3-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
Q	24-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
S	17-7-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
U	7-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
V	3-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
X	3-8-4	-96	-96	---	FRONT	VERT	TOTAL	---	C1
Y	5-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
Z	7-8-4	-76	-76	---	FRONT	VERT	TOTAL	---	C1
AA	9-8-4	-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	17-11-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
AF	18-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
AG	20-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
AH	22-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
AI	26-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
AJ	28-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
AK	30-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1
AL	1-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AM	5-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AN	9-8-4	-21	-21	---	FRONT	VERT	TOTAL	---	C1
AO	11-8-4	-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	17-11-4	-74	-74	---	FRONT	VERT	TOTAL	---	C1
AS	18-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
AT	20-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
AU	22-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
AV	26-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
AW	28-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
AX	30-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
AY	32-8-4	-69	-69	---	FRONT	VERT	TOTAL	---	C1
AZ	33-8-4	-72	-72	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

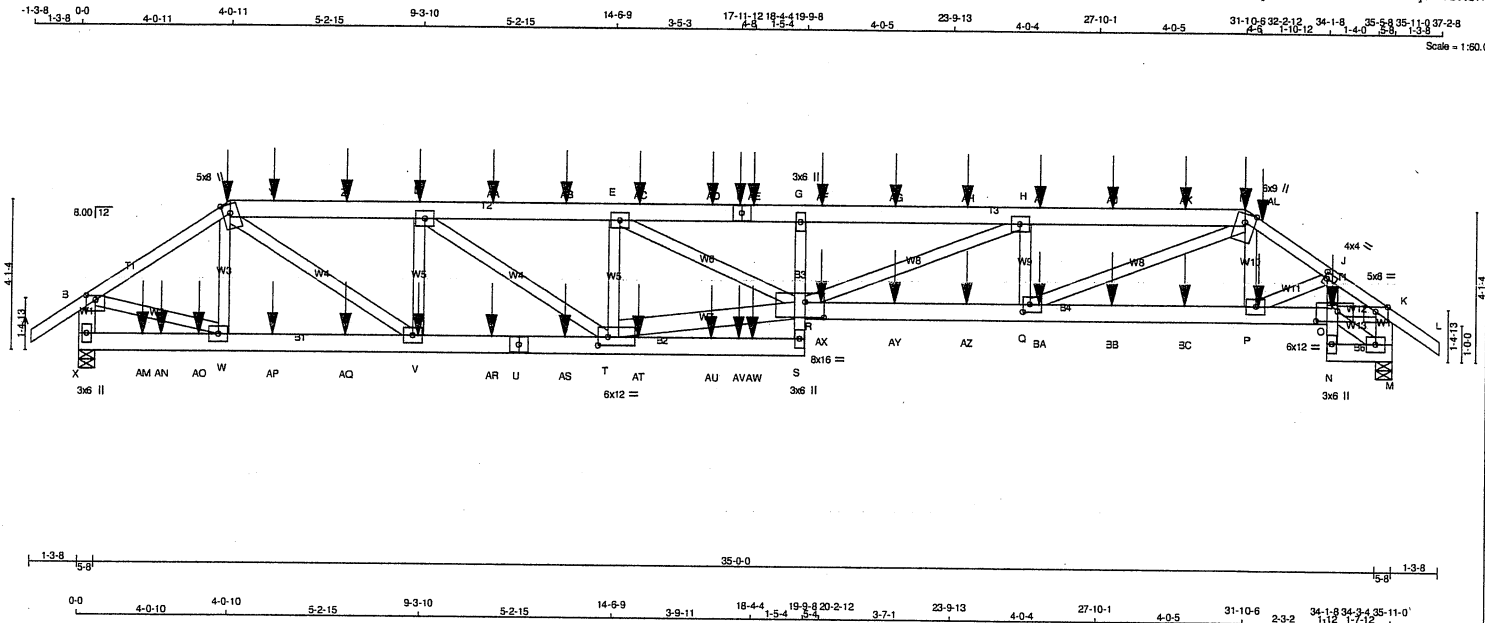
JSI GRIP= 0.85 (V) (INPUT = 0.90)
JSI METAL= 0.94 (D) (INPUT = 1.00)



Structural component only
DWG# T-2115582

JOB NAME 411095	TRUSS NAME T30S1	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 15:17:59 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-YPGpBpm8aUZRMui4HdJxIYAS6fzwMZGVcxjKzCx8M



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x6	DRY	No.2
F - I	2x6	DRY	No.2
I - L	2x4	DRY	No.2
X - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
X - U	2x6	DRY	No.2
U - S	2x6	DRY	No.2
S - G	2x4	DRY	No.2
R - O	2x6	DRY	No.2
N - J	2x4	DRY	No.2
N - M	2x6	DRY	No.2
ALL WEBS EXCEPT T - R	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)
I-L	12	SIDE(61.0)
C-F	2	SIDE(183.1)
F-I	2	SIDE(61.0)
X-B	2	TOP
M-K	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
X-U	2	SIDE(183.1)
U-S	2	SIDE(0.0)
R-O	2	SIDE(183.1)
N-M	2	TOP
S-G	1	TOP
J-N	1	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x4	6	
2x6	2	

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 BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
X	3665	0	3665	0	0
M	3942	0	3942	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
X	2593	1692 / 0	0 / 0
M	2786	1841 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 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. LOAD	LC1 MAX	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 35	-91.8	-91.8	W-C	-725 / 0
B-C	-4322 / 0	-91.8	-91.8	C-V	0 / 4030
C-Y	-6922 / 0	-91.8	-91.8	V-D	-2191 / 0
Y-Z	-6922 / 0	-91.8	-91.8	D-T	0 / 2315
Z-D	-6922 / 0	-91.8	-91.8	T-E	-2784 / 0
D-AA	-8815 / 0	-91.8	-91.8	E-R	0 / 4154
AA-AB	-8815 / 0	-91.8	-91.8	R-H	-1925 / 0
AB-E	-8815 / 0	-91.8	-91.8	H-Q	0 / 5684
E-AC	-12606 / 0	-91.8	-91.8	Q-I	0 / 408
AC-AD	-12606 / 0	-91.8	-91.8	I-P	-264 / 0
AD-F	-12606 / 0	-91.8	-91.8	P-J	0 / 3723
F-AE	-12606 / 0	-91.8	-91.8	J-R	0 / 2287
AE-G	-12606 / 0	-91.8	-91.8	R-M	-280 / 0
G-AF	-12731 / 0	-91.8	-91.8	M-O	0 / 5458
AF-AG	-12731 / 0	-91.8	-91.8	O-K	0 / 5458
AG-AH	-12731 / 0	-91.8	-91.8		
AH-H	-12731 / 0	-91.8	-91.8		
H-AI	-10629 / 0	-91.8	-91.8		
AI-AJ	-10629 / 0	-91.8	-91.8		
AJ-AK	-10629 / 0	-91.8	-91.8		
AK-I	-10629 / 0	-91.8	-91.8		
I-AL	-6474 / 0	-91.8	-91.8		
AL-J	-6474 / 0	-91.8	-91.8		
J-K	-6618 / 0	-91.8	-91.8		
K-L	0 / 35	-91.8	-91.8		
X-B	-3612 / 0	0.0	0.0		
M-K	-3777 / 0	0.0	0.0		
X-AM	0 / 0	-18.5	-18.5		
AM-AN	0 / 0	-18.5	-18.5		
AN-AO	0 / 0	-18.5	-18.5		
AO-W	0 / 0	-18.5	-18.5		
W-AP	0 / 3636	-18.5	-18.5		
AP-AQ	0 / 3636	-18.5	-18.5		
AQ-V	0 / 3636	-18.5	-18.5		
V-AR	0 / 6922	-18.5	-18.5		
AR-U	0 / 6922	-18.5	-18.5		
U-AS	0 / 6922	-18.5	-18.5		
AS-T	0 / 6922	-18.5	-18.5		
T-AT	0 / 331	-18.5	-18.5		
AT-AU	0 / 331	-18.5	-18.5		
AU-AV	0 / 331	-18.5	-18.5		
AV-AW	0 / 331	-18.5	-18.5		

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, 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 (0.34")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/674 (0.64")

CSI: TC=0.50/1.00 (G-H:1), BC=0.81/1.00 (Q-R:1), WB=0.57/1.00 (R-T:1), SS=0.17/1.00 (H-I: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-2115599

JOB NAME 411095	TRUSS NAME T30S1	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 15:17:59 2021 Page 2 ID:GAonzd6DLBrd2xE89xtNtRz BuP-YPGpBpm8aUZRmU4HdjlYAS6fzwMZGVcxjtKzCx8M			

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.		Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 15:17:59 2021 Page 2 ID:GAonzd6DLBrd2xE89xtNtRz BuP-YPGpBpm8aUZRmU4HdjlYAS6fzwMZGVcxjtKzCx8M			
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50	3.00
C	TTWW+m	MT20	5.0	8.0	Edge	
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-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	BVMWW-t	MT20	6.0	12.0	3.25	7.00
P, V, W						
P	BMVW-t	MT20	5.0	6.0		
Q	BMVW-t	MT20	5.0	6.0	2.50	2.25
R	BVMWW-t	MT20	8.0	16.0	5.00	6.25
S	BMV+p	MT20	3.0	6.0		
T	BVMWW-t	MT20	6.0	12.0	2.75	3.25
U	BS-t	MT20	5.0	6.0		
X	BMV1+p	MT20	3.0	6.0		

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

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

LOADING
TOTAL LOAD CASES: (4)

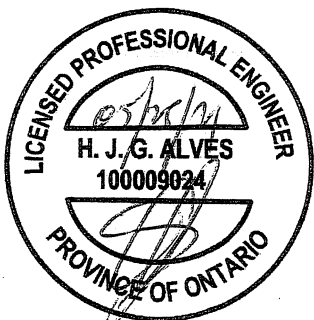
CHORDS		FACTORED		WEBS	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)
FR-TO		FROM TO		LENGTH FR-TO	
AW-S	0/331	-18.5	-18.5 0.08 (4)		10.00
S-R	0/101	0.0	0.0 0.26 (1)		10.00
R-G	-844/0	0.0	0.0 0.25 (1)		7.81
R-AX	0/10629	-18.5	-18.5 0.81 (1)		10.00
AX-AY	0/10629	-18.5	-18.5 0.81 (1)		10.00
AY-AZ	0/10629	-18.5	-18.5 0.81 (1)		10.00
AZ-Q	0/10629	-18.5	-18.5 0.81 (1)		10.00
Q-BA	0/5432	-18.5	-18.5 0.44 (1)		10.00
BA-BB	0/5432	-18.5	-18.5 0.44 (1)		10.00
BB-BC	0/5432	-18.5	-18.5 0.44 (1)		10.00
BC-P	0/5432	-18.5	-18.5 0.44 (1)		10.00
P-O	0/5691	-18.5	-18.5 0.45 (1)		10.00
N-O	0/17	0.0	0.0 0.19 (1)		10.00
O-J	0/121	0.0	0.0 0.20 (1)		10.00
N-M	0/236	-18.5	-18.5 0.02 (1)		10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-41	-41	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-173	-173	---	FRONT	VERT	SNOW	---	C1
D	9-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
F	17-11-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
I	31-10-6	-41	-41	---	FRONT	VERT	DEAD	---	C1
I	31-10-6	-173	-173	---	FRONT	VERT	SNOW	---	C1
O	34-3-4	-28	-28	---	BACK	VERT	TOTAL	---	C1
P	32-2-12	-69	-69	---	BACK	VERT	TOTAL	---	C1
V	9-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
Y	5-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
Z	7-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AA	11-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AB	13-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AC	15-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AD	17-2-12	-76	-76	---	BACK	VERT	TOTAL	---	C1
AE	18-4-4	-76	-76	---	BACK	VERT	TOTAL	---	C1
AF	20-2-12	-72	-72	---	BACK	VERT	TOTAL	---	C1
AG	22-2-12	-72	-72	---	BACK	VERT	TOTAL	---	C1
AH	24-2-12	-72	-72	---	BACK	VERT	TOTAL	---	C1
AI	26-2-12	-72	-72	---	BACK	VERT	TOTAL	---	C1
AJ	28-2-12	-72	-72	---	BACK	VERT	TOTAL	---	C1
AK	30-2-12	-72	-72	---	BACK	VERT	TOTAL	---	C1
AL	32-2-12	-92	-92	---	BACK	VERT	TOTAL	---	C1
AM	1-8-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AN	2-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AO	3-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AP	5-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AQ	7-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AR	11-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AS	13-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AT	15-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AU	17-2-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AV	17-11-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AW	18-4-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AX	20-2-12	-72	-72	---	BACK	VERT	TOTAL	---	C1
AY	22-2-12	-69	-69	---	BACK	VERT	TOTAL	---	C1
AZ	24-2-12	-69	-69	---	BACK	VERT	TOTAL	---	C1
BA	26-2-12	-69	-69	---	BACK	VERT	TOTAL	---	C1
BB	28-2-12	-69	-69	---	BACK	VERT	TOTAL	---	C1
BC	30-2-12	-69	-69	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

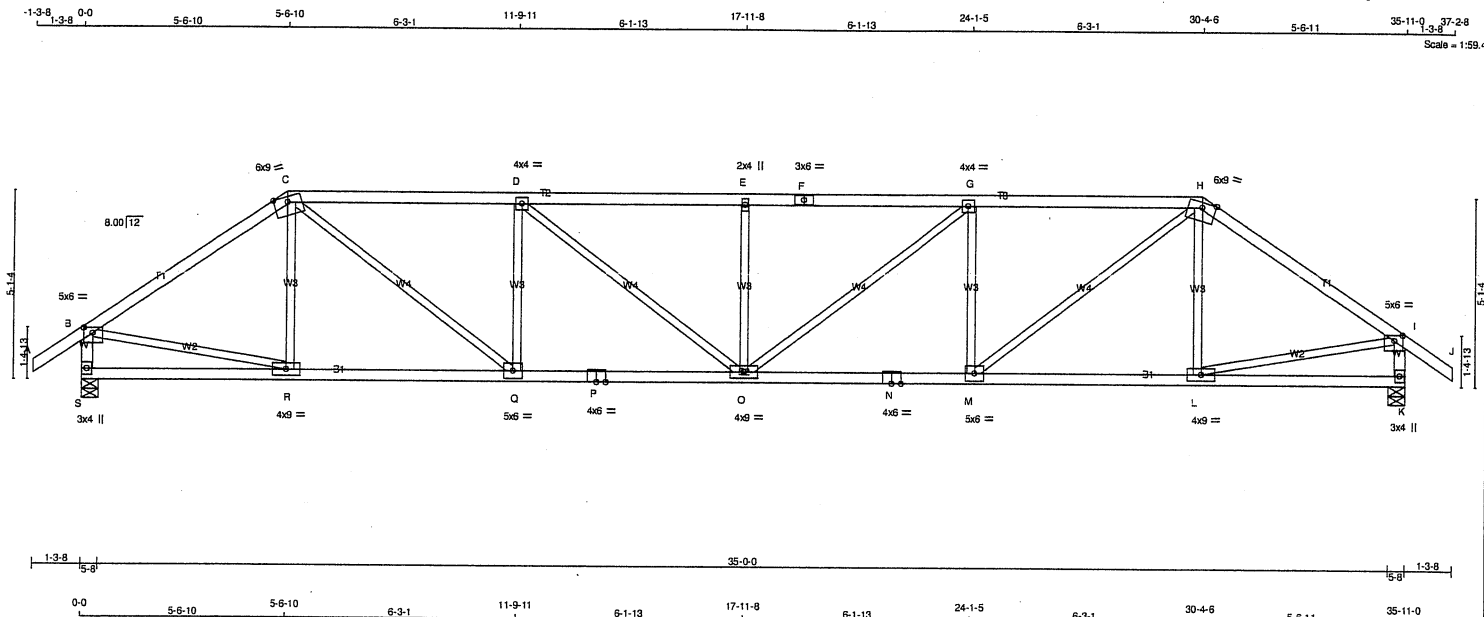


Structural component only
DWG# T-2115599

JOB NAME 411094	TRUSS NAME T31	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:29 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-r93mFhiidFwVBCw4gVQenz85CKTNZhMjGrO5O2zCxUO



LUMBER				DESCR.
N. L. G. A. RULES	SIZE	LUMBER		
CHORDS				
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
K - I	2x4	DRY	No.2	SPF
S - P	2x4	DRY	No.2	SPF
P - N	2x4	DRY	No.2	SPF
N - K	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	6.0	1.75 2.75
C	TTWW-m	MT20	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	1.75 2.75
K	BMV1+p	MT20	3.0	4.0	
L	BMVW-t	MT20	4.0	9.0	
M	BMVW-t	MT20	5.0	6.0	
N	BS-t	MT20	4.0	6.0	
O	BMVW-t	MT20	4.0	9.0	
P	BS-t	MT20	4.0	6.0	
Q	BMVW-t	MT20	5.0	6.0	
R	BMVW-t	MT20	4.0	9.0	
S	BMV1+p	MT20	3.0	4.0	

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

NOTES: (1)
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
S	2106	0	2106	0
K	2106	0	2106	0

UNFACTORED REACTIONS

JT	1ST CASE	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 = 2.81 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	R-C	-250 / 8	0.10 (1)	
B-C	-2355 / 0	-91.8	-91.8 0.71 (1)	C-Q	0 / 1756	0.40 (1)	
C-D	-3345 / 0	-91.8	-91.8 0.88 (1)	Q-D	-958 / 0	0.37 (1)	
D-E	-3750 / 0	-91.8	-91.8 0.95 (1)	D-O	0 / 515	0.12 (1)	
E-F	-3750 / 0	-91.8	-91.8 0.95 (1)	O-E	-521 / 0	0.20 (1)	
F-G	-3750 / 0	-91.8	-91.8 0.95 (1)	O-G	0 / 515	0.12 (1)	
G-H	-3345 / 0	-91.8	-91.8 0.88 (1)	M-G	-958 / 0	0.37 (1)	
H-I	-2355 / 0	-91.8	-91.8 0.71 (1)	M-H	0 / 1756	0.40 (1)	
I-J	0 / 35	-91.8	-91.8 0.12 (1)	L-H	-250 / 8	0.10 (1)	
S-B	-2065 / 0	0.0	0.0 0.21 (1)	B-R	0 / 1993	0.45 (1)	
K-I	-2065 / 0	0.0	0.0 0.21 (1)	L-I	0 / 1993	0.45 (1)	
S-R	0 / 0	-18.5	-18.5 0.15 (4)				
R-Q	0 / 1952	-18.5	-18.5 0.40 (1)				
Q-P	0 / 3345	-18.5	-18.5 0.60 (1)				
P-O	0 / 3345	-18.5	-18.5 0.60 (1)				
O-N	0 / 3345	-18.5	-18.5 0.60 (1)				
N-M	0 / 3345	-18.5	-18.5 0.60 (1)				
M-L	0 / 1952	-18.5	-18.5 0.40 (1)				
L-K	0 / 0	-18.5	-18.5 0.15 (4)				

TOTAL WEIGHT = 142 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

(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 (0.23")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.42")

CSI: TC=0.95/1.00 (D-E-1), BC=0.60/1.00 (M-O-1), WB=0.45/1.00 (I-L-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

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (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 (C) (INPUT = 0.90)
JSI METAL= 0.77 (P) (INPUT = 1.00)

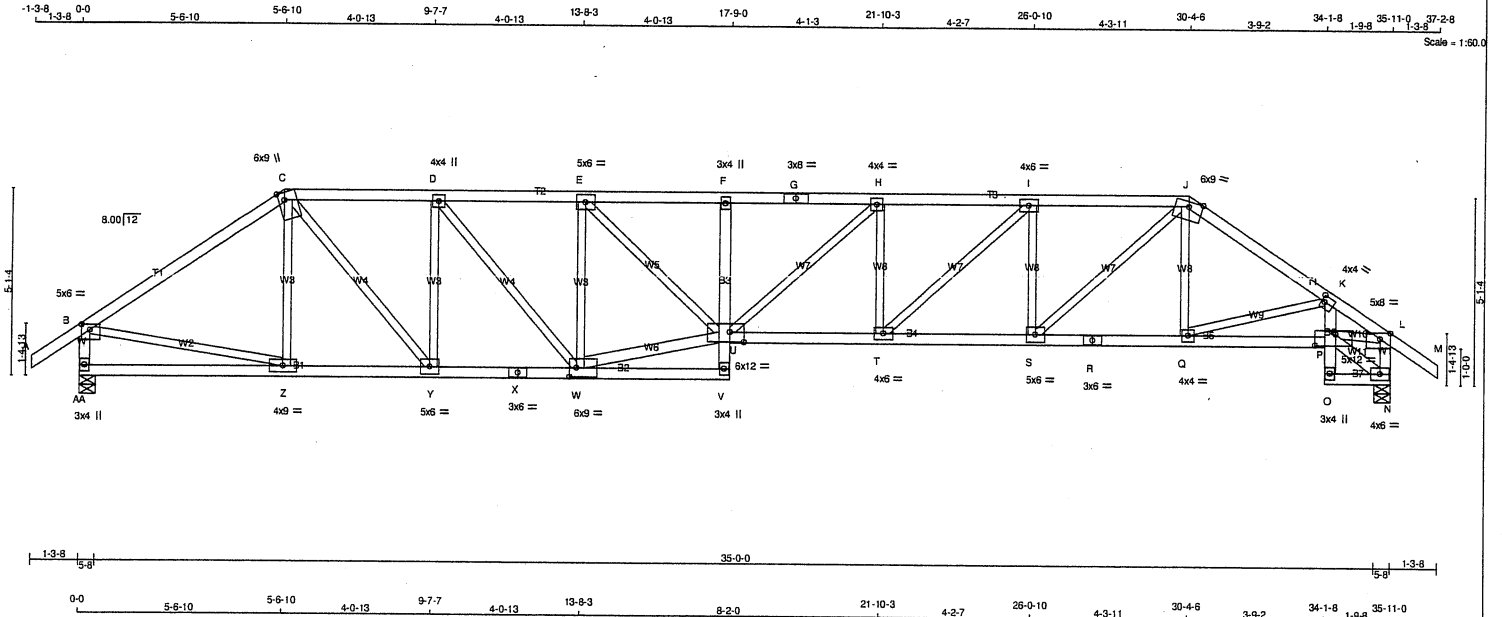


Structural component only
DWG# T-2115583

JOB NAME 411094	TRUSS NAME T31S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 14:54:31 2021 Page 1
ID:GAonzd6DLBr2xE89xtNtRz_BuP-nXBxgNky9tADRW4TowT6sODUUX6D1Yz0j9tCSxXcUM



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
J - M	2x4	DRY	No.2
AA - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
AA - X	2x4	DRY	No.2
X - V	2x4	DRY	No.2
V - F	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - P	2x4	DRY	No.2
O - K	2x4	DRY	No.2
O - N	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
W - U	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	1.75 2.75
C	TTWW-m	MT20	6.0	9.0	Edge 2.00
D	TMWW-t	MT20	4.0	4.0	
E	TMWW-t	MT20	5.0	6.0	
F	TMV-p	MT20	3.0	4.0	
G	TS-t	MT20	3.0	8.0	
H	TMWW-t	MT20	4.0	4.0	
I	TMWW-t	MT20	4.0	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 3.50
N	BMVW-t	MT20	4.0	6.0	
O	BMV-p	MT20	3.0	4.0	
P	BVMWV-t	MT20	5.0	12.0	3.75 6.75
Q	BMVW-t	MT20	4.0	4.0	
R	BS-t	MT20	3.0	6.0	
S	BMVW-t	MT20	5.0	6.0	
T	BMVW-t	MT20	4.0	6.0	
U	BVMWVW-t	MT20	6.0	12.0	3.25 4.75
V	BMV-p	MT20	3.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
AA	2103	0	2103	0	5-8
N	2108	0	2108	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS	WIND	DEAD	SOIL
AA	1485	988 / 0	0 / 0	0 / 0	497 / 0	0 / 0
N	1489	990 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.95 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	FACTORED	VERT. LOAD LC1	MEMB.	MAX. FACTORED	MAX.	MAX. FACTORED
	FORCE (LBS)	(PLF)	CSI (LC)		FORCE (LBS)	UNBRAC	CSI (LC)
FR-TO		FROM TO		FR-TO		LENGTH	
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	Z-C	-264 / 0	0.10 (1)
B-C	-2349 / 0	-91.8 -91.8	0.71 (1)	3.74	C-Y	0 / 1518	0.34 (1)
C-D	-2935 / 0	-91.8 -91.8	0.34 (1)	3.78	Y-D	-1094 / 0	0.42 (1)
D-E	-3494 / 0	-91.8 -91.8	0.39 (1)	3.45	D-W	0 / 882	0.20 (1)
E-F	-4646 / 0	-91.8 -91.8	0.45 (1)	2.99	W-E	-1452 / 0	0.56 (1)
F-G	-4676 / 0	-91.8 -91.8	0.49 (1)	2.95	W-U	0 / 3505	0.56 (1)
G-H	-4676 / 0	-91.8 -91.8	0.49 (1)	2.95	E-U	0 / 1578	0.36 (1)
H-I	-4462 / 0	-91.8 -91.8	0.52 (1)	2.97	Q-J	0 / 138	0.04 (4)
I-J	-3741 / 0	-91.8 -91.8	0.44 (1)	3.31	Q-K	-540 / 0	0.16 (1)
J-K	-2936 / 0	-91.8 -91.8	0.36 (1)	3.76	B-Z	0 / 1987	0.45 (1)
K-L	-3399 / 0	-91.8 -91.8	0.24 (1)	3.62	P-N	-156 / 0	0.02 (1)
L-M	0 / 35	-91.8 -91.8	0.12 (1)	10.00	P-L	0 / 2814	0.63 (1)
AA-B	-2060 / 0	0.0 0.0	0.21 (1)	5.89	S-J	0 / 1736	0.39 (1)
N-L	-2004 / 0	0.0 0.0	0.21 (1)	5.96	U-H	0 / 288	0.06 (1)
AA-Z	0 / 0	-18.5 -18.5	0.12 (4)	10.00	S-I	-1076 / 0	0.27 (1)
Z-Y	0 / 1946	-18.5 -18.5	0.38 (1)	10.00	T-H	-573 / 0	0.15 (1)
Y-X	0 / 2935	-18.5 -18.5	0.50 (1)	10.00	T-I	0 / 973	0.22 (1)
X-W	0 / 2935	-18.5 -18.5	0.50 (1)	10.00			
W-V	0 / 115	-18.5 -18.5	0.08 (4)	10.00			
V-U	0 / 33	0.0 0.0	0.16 (1)	10.00			
U-F	-371 / 0	0.0 0.0	0.17 (1)	7.81			
U-T	0 / 4462	-18.5 -18.5	0.77 (1)	10.00			
T-S	0 / 3741	-18.5 -18.5	0.65 (1)	10.00			
S-R	0 / 2439	-18.5 -18.5	0.44 (1)	10.00			
R-Q	0 / 2439	-18.5 -18.5	0.44 (1)	10.00			
Q-P	0 / 2955	-18.5 -18.5	0.52 (1)	10.00			
O-P	0 / 17	0.0 0.0	0.20 (1)	10.00			
P-K	0 / 167	0.0 0.0	0.23 (1)	10.00			
O-N	0 / 128	-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, 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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.31")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/757 (0.57")

CSI: TC=0.71/1.00 (B-C:1), BC=0.77/1.00 (T-U:1), WB=0.63/1.00 (L-P:1), SS=0.18/1.00 (I-J: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)	(PL)	(PL)
MAX	MIN	MAX
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (D) (INPUT = 0.90)
JSI METAL= 0.87 (X) (INPUT = 1.00)



Structural component only
DWG# T-2115584

JOB NAME 411094	TRUSS NAME T31S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:31 2021 Page 2
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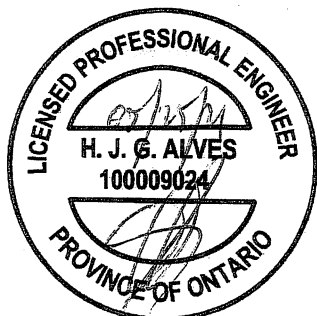
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	BMWW-t	MT20	6.0	9.0	3.00	2.25
X	BS-t	MT20	3.0	6.0		
Y	BMWW-t	MT20	5.0	6.0		
Z	BMWW-t	MT20	4.0	9.0		
AA	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

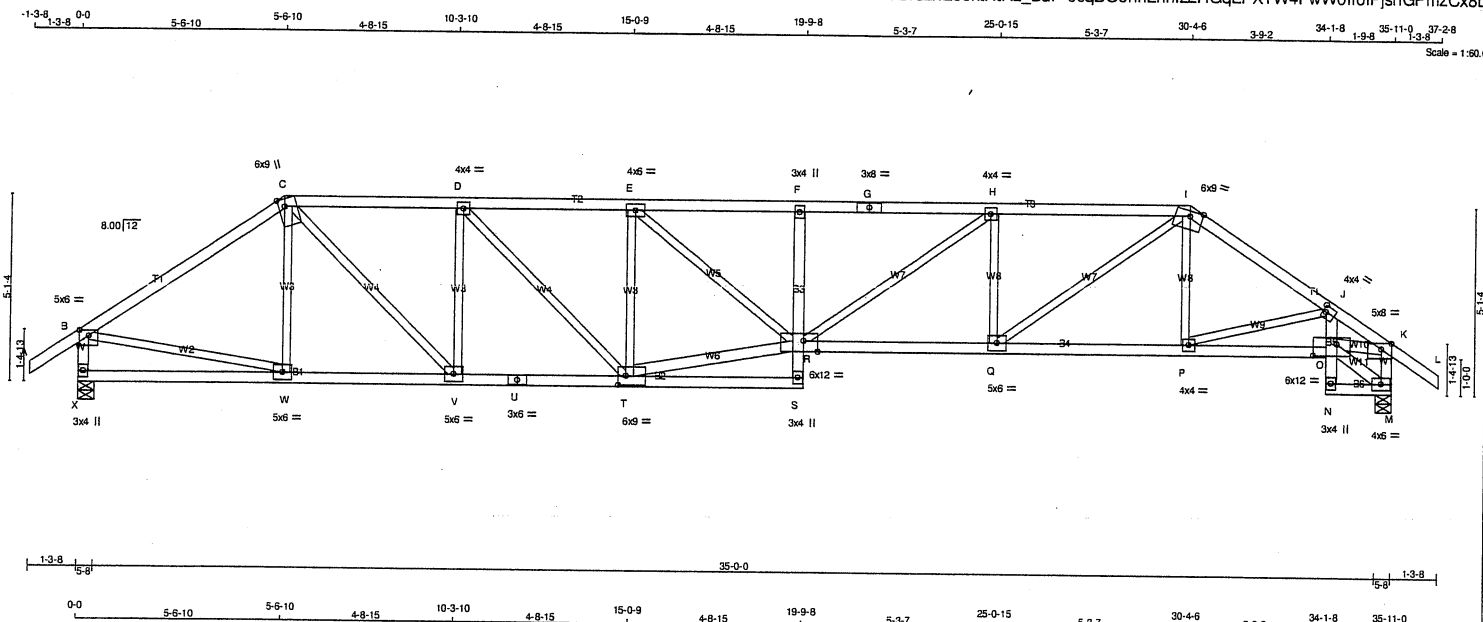


Structural component only
DWG# T-2115584 *in*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411095	T31S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 15:18:00 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-0cqBO9nnLnhlz2HGqLFXTW4FwW0ff0pJshGPmzCx8L



LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N. L. G. A. RULES				
A - C	2x4	DRY	No.2	SPF
C - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
X - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
X - U	2x4	DRY	No.2	SPF
U - S	2x4	DRY	No.2	SPF
S - F	2x4	DRY	No.2	SPF
R - 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
T - R	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 2.00
D	TMVW-t	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	6.0		
F	TMVW-p	MT20	3.0	4.0		
G	TS-t	MT20	3.0	8.0		
H	TMVW-t	MT20	4.0	4.0		
I	TTWW-m	MT20	6.0	9.0	Edge	4.25
J	TMVW-t	MT20	4.0	4.0	2.00	1.00
K	TMVW-p	MT20	5.0	8.0	Edge	3.50
M	BMVW1-t	MT20	4.0	6.0		
N	BMVW-p	MT20	3.0	4.0		
O	BMVW1-t	MT20	6.0	12.0	3.75	7.75
P	BMVW-t	MT20	4.0	4.0		
Q, V, W						
Q	BMVW-t	MT20	5.0	6.0		
R	BMVW1-t	MT20	6.0	12.0	Edge	4.50
S	BMVW-p	MT20	3.0	4.0		
T	BMVW1-t	MT20	6.0	9.0	3.00	2.50
U	BS-t	MT20	3.0	6.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	IN-SX	IN-SX
X	2103	0	2103	0
M	2108	0	2108	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
X	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) X, M

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.65 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)
FR-TO					LENGTH FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	W-C	-260 / 0	0.10 (1)
B-C	-2350 / 0	-91.8	-91.8	0.71 (1)	3.74	C-V	0 / 1591	0.36 (1)
C-D	-3072 / 0	-91.8	-91.8	0.47 (1)	3.59	V-D	-1051 / 0	0.40 (1)
D-E	-3618 / 0	-91.8	-91.8	0.53 (1)	3.28	D-T	0 / 788	0.18 (1)
E-F	-4615 / 0	-91.8	-91.8	0.56 (1)	2.92	T-E	-1224 / 0	0.47 (1)
F-G	-4647 / 0	-91.8	-91.8	0.84 (1)	2.65	E-R	0 / 3592	0.58 (1)
G-H	-4647 / 0	-91.8	-91.8	0.84 (1)	2.65	R-H	0 / 1271	0.29 (1)
H-I	-4012 / 0	-91.8	-91.8	0.73 (1)	2.95	H-R	0 / 781	0.18 (1)
I-J	-2939 / 0	-91.8	-91.8	0.36 (1)	3.77	Q-H	-1006 / 0	0.26 (1)
J-K	-3422 / 0	-91.8	-91.8	0.24 (1)	3.60	Q-I	0 / 1922	0.43 (1)
K-L	0 / 35	-91.8	-91.8	0.12 (1)	10.00	P-I	0 / 147	0.04 (4)
X-B	-2060 / 0	0.0	0.0	0.21 (1)	5.89	P-J	-543 / 0	0.16 (1)
M-K	-2014 / 0	0.0	0.0	0.21 (1)	5.95	B-W	0 / 1988	0.45 (1)
						O-M	-139 / 0	0.01 (1)
X-W	0 / 0	-18.5	-18.5	0.13 (4)	10.00	O-K	0 / 2835	0.46 (1)
W-V	0 / 1947	-18.5	-18.5	0.38 (1)	10.00			
V-U	0 / 3072	-18.5	-18.5	0.54 (1)	10.00			
U-T	0 / 3072	-18.5	-18.5	0.54 (1)	10.00			
T-S	0 / 124	-18.5	-18.5	0.10 (4)	10.00			
S-R	0 / 39	0.0	0.0	0.17 (1)	10.00			
R-F	-433 / 0	0.0	0.0	0.19 (1)	7.81			
R-Q	0 / 4012	-18.5	-18.5	0.72 (1)	10.00			
Q-P	0 / 2441	-18.5	-18.5	0.45 (1)	10.00			
P-O	0 / 2960	-18.5	-18.5	0.53 (1)	10.00			
N-O	0 / 17	0.0	0.0	0.18 (1)	10.00			
O-J	0 / 176	0.0	0.0	0.21 (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 = 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 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 (0.30")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/780 (0.55")

CSI: TC=0.84/1.00 (F-H:1), BC=0.72/1.00 (Q-R:1),
WB=0.58/1.00 (R-T:1), SS=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

AUTOSOLVE LEFT HEEL ONLY

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

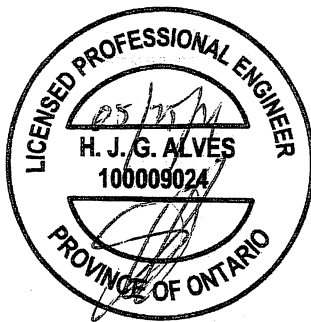
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
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 = 0.93 (U) (INPUT = 1.00)



Structural component only
DWG# T-2115600

JOB NAME 411095	TRUSS NAME T31S1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 15:18:00 2021 Page 2
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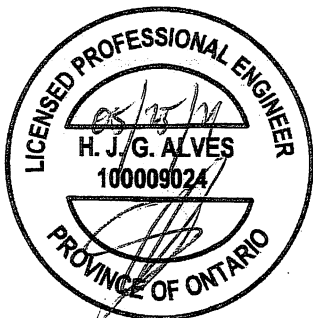
PLATES (table is in inches)

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

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

NOTES- (1)

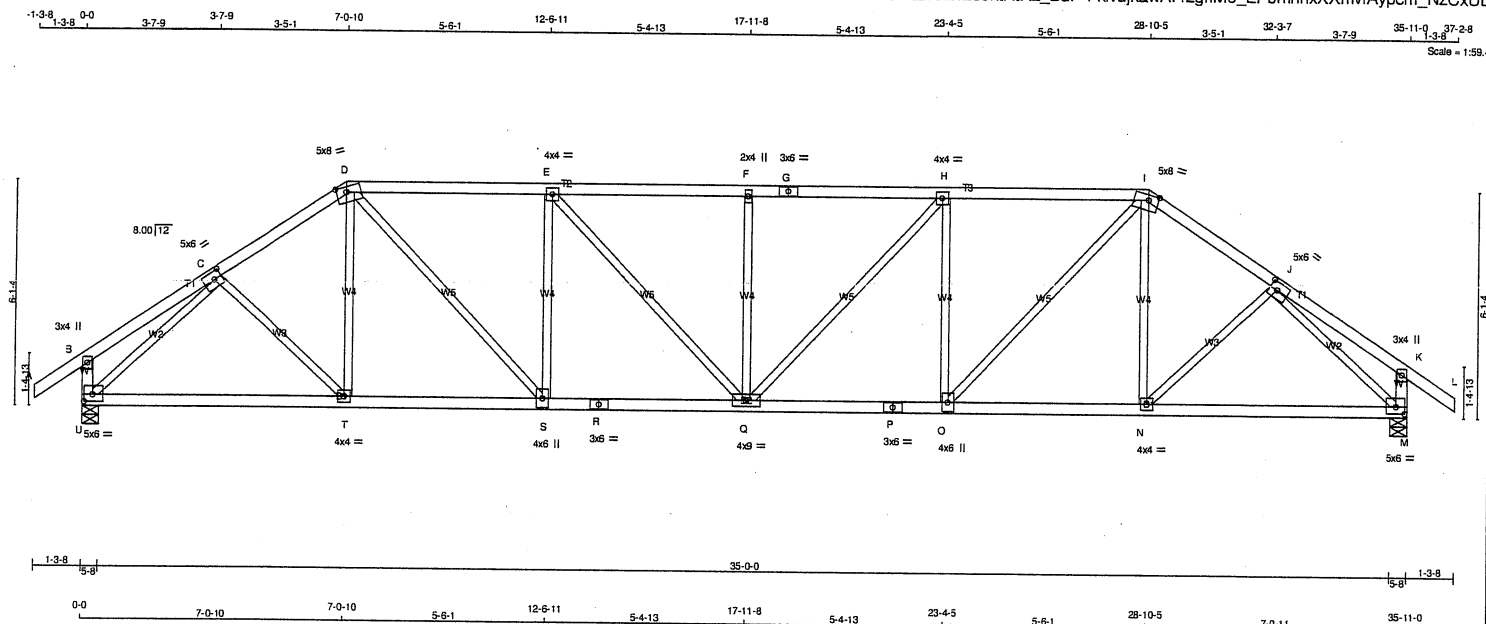
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115600 *242*

JOB NAME 411094	TRUSS NAME T32	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:32 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-FkivujkawA142gfMe_LPbmhhxXXmvfAypcm_NzCxUl



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
U - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - P	2x4	DRY	No.2
P - M	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMWW-t	MT20	5.0	6.0 2.50 2.50
D	TTWW-m	MT20	5.0	8.0 1.75 3.25
E	TMWW-t	MT20	4.0	4.0
F	TMW+w	MT20	2.0	4.0
G	TS-t	MT20	3.0	6.0
H	TMWW-t	MT20	4.0	4.0
I	TTWW-m	MT20	5.0	8.0 1.75 3.25
J	TMWW-t	MT20	5.0	6.0 2.50 2.50
K	TMV+p	MT20	3.0	4.0
M	BMVW-t	MT20	5.0	6.0 2.25 2.75
N	BMWW-t	MT20	4.0	4.0
O	BMWW-t	MT20	4.0	6.0
P	BS-t	MT20	3.0	6.0
Q	BMWW-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 2.25 2.75

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	UP	BRG
U	2106	0	2106	0	5-8
M	2106	0	2106	0	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 = 3.41 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (CSI (LC))	MEMB.	FORCE (LBS)	MAX. FACTORED (CSI (LC))	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	C-T	0 / 146	0.03 (4)	
B-C	0 / 18	-91.8 -91.8 0.16 (1)	10.00	T-D	0 / 88	0.03 (4)	
C-D	-2366 / 0	-91.8 -91.8 0.24 (1)	4.26	D-S	0 / 1284	0.29 (1)	
D-E	-2835 / 0	-91.8 -91.8 0.59 (1)	3.58	S-E	-843 / 0	0.49 (1)	
E-F	-3095 / 0	-91.8 -91.8 0.62 (1)	3.41	E-Q	0 / 382	0.09 (1)	
F-G	-3095 / 0	-91.8 -91.8 0.62 (1)	3.41	Q-F	-456 / 0	0.27 (1)	
G-H	-3095 / 0	-91.8 -91.8 0.62 (1)	3.41	Q-H	0 / 382	0.09 (1)	
H-I	-2835 / 0	-91.8 -91.8 0.59 (1)	3.58	O-H	-843 / 0	0.49 (1)	
I-J	-2366 / 0	-91.8 -91.8 0.24 (1)	4.26	O-I	0 / 1284	0.29 (1)	
J-K	0 / 18	-91.8 -91.8 0.16 (1)	10.00	N-I	0 / 88	0.03 (4)	
K-L	0 / 35	-91.8 -91.8 0.12 (1)	10.00	N-J	0 / 146	0.03 (4)	
U-B	-255 / 0	0.0 0.0 0.03 (1)	7.81	U-C	-2574 / 0	0.99 (1)	
M-K	-255 / 0	0.0 0.0 0.03 (1)	7.81	J-M	-2574 / 0	0.99 (1)	
U-T	0 / 1844	-18.5 -18.5 0.41 (1)	10.00				
T-S	0 / 1951	-18.5 -18.5 0.42 (1)	10.00				
S-R	0 / 2835	-18.5 -18.5 0.51 (1)	10.00				
R-Q	0 / 2835	-18.5 -18.5 0.51 (1)	10.00				
Q-P	0 / 2835	-18.5 -18.5 0.51 (1)	10.00				
P-O	0 / 2835	-18.5 -18.5 0.51 (1)	10.00				
O-N	0 / 1951	-18.5 -18.5 0.42 (1)	10.00				
N-M	0 / 1844	-18.5 -18.5 0.41 (1)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

CSI: TC=0.62/1.00 (E-F:1), BC=0.51/1.00 (O-Q:1),
WB=0.99/1.00 (J-M: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

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 (M) (INPUT = 0.90)
JSI METAL= 0.86 (R) (INPUT = 1.00)

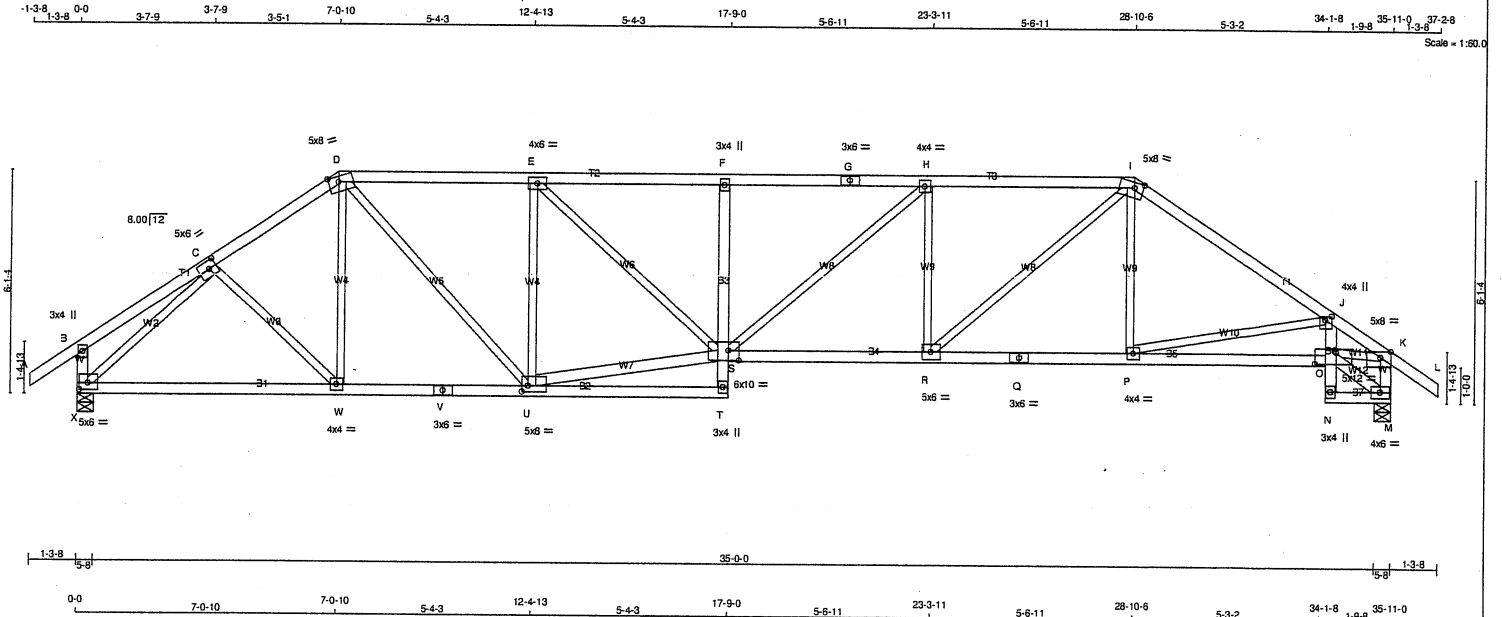


Structural component only
DWG# T-2115585

JOB NAME 411094	TRUSS NAME T32S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 14:54:33 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNfRz_BuP-jwJH53IDhUQxgqDvLVaypJqELquVMvJBTMJXpZCxUK



LUMBER				DESCR.
N. L. G. A. RULES	SIZE	LUMBER		
CHORDS				
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
X - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
X - V	2x4	DRY	No.2	SPF
V - T	2x4	DRY	No.2	SPF
T - F	2x4	DRY	No.2	SPF
S - Q	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	2x3	DRY	No.2	SPF
EXCEPT				
U - S	2x4	DRY	No.2	SPF
O - 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 TMVW-t	MT20	5.0	6.0	2.50 2.50
D TMVW-m	MT20	5.0	8.0	1.75 3.25
E TMVW-t	MT20	4.0	6.0	
F TMV+p	MT20	3.0	4.0	
G TS-t	MT20	3.0	6.0	
H TMVW-t	MT20	4.0	4.0	
I TMVW-m	MT20	5.0	8.0	1.75 3.00
J TMVW+p	MT20	4.0	4.0	1.25 2.00
K TMVW-p	MT20	5.0	8.0	Edge 3.50
M BMVW-t	MT20	4.0	6.0	
N BMV+p	MT20	3.0	4.0	
O BMVW-t	MT20	5.0	12.0	3.75 7.00
P BS-t	MT20	4.0	4.0	
Q BS-t	MT20	3.0	6.0	
R BMVW-t	MT20	5.0	6.0	
S BMVW-t	MT20	6.0	10.0	3.25 3.50
T BMV+p	MT20	3.0	4.0	
U BMVW-t	MT20	5.0	8.0	2.00 2.00
V BS-t	MT20	3.0	6.0	

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

	FACTORED		MAXIMUM FACTORED		INPUT		REQD	
	GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
X	2103	0	2103	0	0	5-8	5-8	
M	2108	0	2108	0	0	5-8	5-8	

UNFACTORED REACTIONS

	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
X	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) X, M

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.01 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. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	C-W	0 / 145	0.03 (4)	
B-C	0 / 18	-91.8	-91.8 0.16 (1)	W-D	0 / 83	0.03 (4)	
C-D	-2362 / 0	-91.8	-91.8 0.23 (1)	4.27	D-U	0 / 1268	0.29 (1)
D-E	-2801 / 0	-91.8	-91.8 0.55 (1)	3.64	U-E	-1360 / 0	0.80 (1)
E-F	-3701 / 0	-91.8	-91.8 0.66 (1)	3.11	U-S	0 / 2778	0.45 (1)
F-G	-3719 / 0	-91.8	-91.8 0.76 (1)	3.01	E-S	0 / 1203	0.27 (1)
G-H	-3719 / 0	-91.8	-91.8 0.76 (1)	3.01	S-H	0 / 370	0.08 (1)
H-I	-3438 / 0	-91.8	-91.8 0.72 (1)	3.16	R-H	-825 / 0	0.32 (1)
I-J	-2825 / 0	-91.8	-91.8 0.61 (1)	3.63	R-I	0 / 1442	0.32 (1)
J-K	-3504 / 0	-91.8	-91.8 0.35 (1)	3.42	P-I	0 / 196	0.05 (4)
K-L	0 / 35	-91.8	-91.8 0.12 (1)	10.00	P-J	-766 / 0	0.42 (1)
X-B	-255 / 0	0.0	0.0 0.03 (1)	7.81	X-C	-2570 / 0	0.99 (1)
M-K	-2001 / 0	0.0	0.0 0.21 (1)	5.97	O-M	-161 / 0	0.02 (1)
					O-K	0 / 2939	0.66 (1)
X-W	0 / 1841	-18.5	-18.5 0.41 (1)	10.00			
V-V	0 / 1947	-18.5	-18.5 0.42 (1)	10.00			
V-U	0 / 1947	-18.5	-18.5 0.42 (1)	10.00			
U-T	0 / 88	-18.5	-18.5 0.11 (4)	10.00			
T-S	0 / 46	0.0	0.0 0.13 (1)	10.00			
S-F	-454 / 0	0.0	0.0 0.18 (1)	7.81			
S-R	0 / 3438	-18.5	-18.5 0.63 (1)	10.00			
R-Q	0 / 2338	-18.5	-18.5 0.45 (1)	10.00			
Q-P	0 / 2338	-18.5	-18.5 0.45 (1)	10.00			
P-O	0 / 3083	-18.5	-18.5 0.57 (1)	10.00			
N-O	0 / 17	0.0	0.0 0.21 (1)	10.00			
O-J	0 / 155	0.0	0.0 0.23 (1)	10.00			
N-M	0 / 132	-18.5	-18.5 0.03 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.23")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.43")

CSI: TC=0.76/1.00 (F-H:1), BC=0.63/1.00 (R-S:1), WB=0.99/1.00 (C-X: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 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	MIN	MIN
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (X) (INPUT = 0.90)
JSI METAL= 0.72 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2115586

CONTINUED ON PAGE 2

JOB NAME 411094	TRUSS NAME T32S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:33 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-iwJH53IDhUQxggDrvLVaypJqELquVMvJBTMJXpzCxUK

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
W	BMWV1-t	MT20	4.0	4.0		
X	BMWV1-t	MT20	5.0	6.0	2.25	2.75

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

NOTES- (1)

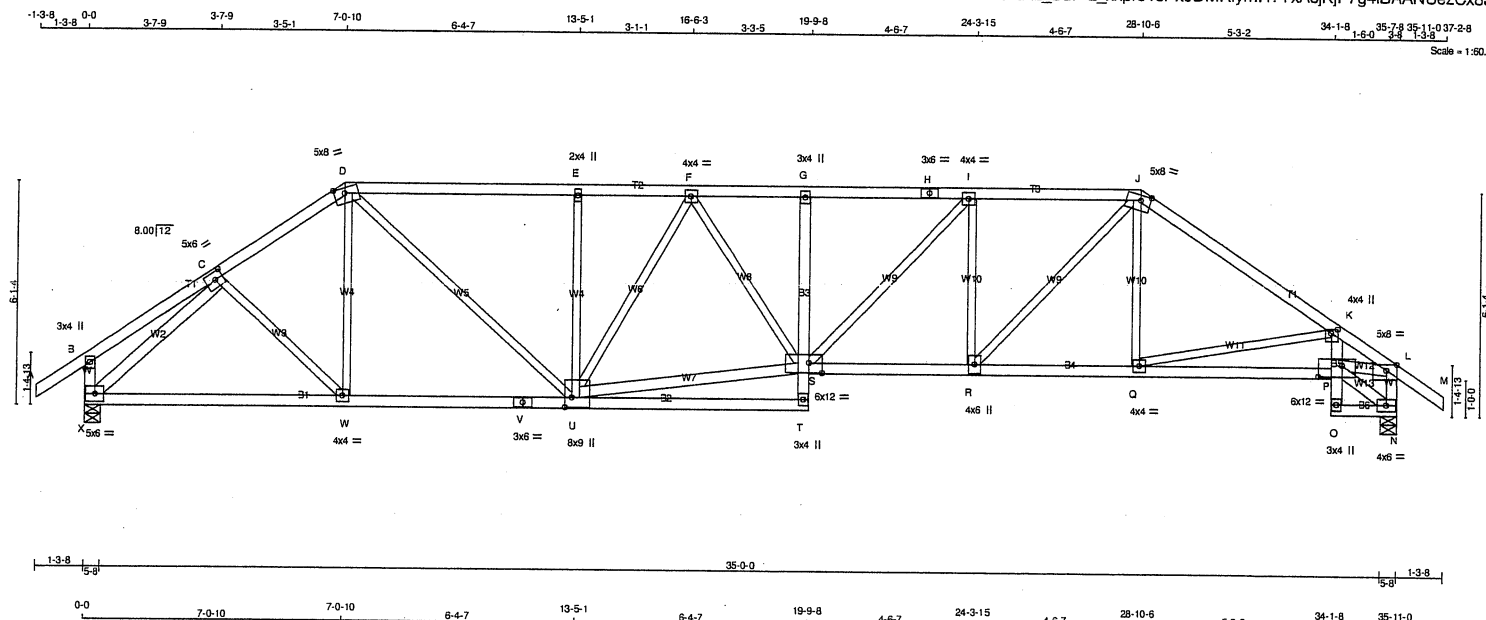
1) Lateral braces to be a minimum of 2x4 SPF #2



Structural component only
DWG# T-2115586 *MM*

JOB NAME 411095	TRUSS NAME T32S1	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. Tue May 25 15:18:02 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-z_xxpro1sPx0DMRfymH?YxAcjKjF7g4iBAANUezCx8J



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - M	2x4	DRY	No.2
X - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
X - V	2x4	DRY	No.2
V - T	2x4	DRY	No.2
T - G	2x4	DRY	No.2
S - P	2x4	DRY	No.2
O - K	2x4	DRY	No.2
O - N	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
X - C	2x4	DRY	No.2
U - S	2x4	DRY	No.2
P - N	2x4	DRY	No.2
P - L	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
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 TMW+w	MT20	2.0	4.0
F TMWW+t	MT20	4.0	4.0
G TMV+p	MT20	3.0	6.0
H TS-t	MT20	3.0	6.0
I TMWW+t	MT20	4.0	4.0
J TTWW-m	MT20	5.0	8.0 1.75 3.25
K TMVW+p	MT20	4.0	4.0 1.25 2.00
L TMVW-p	MT20	5.0	8.0 Edge 3.50
N BMVW-t	MT20	4.0	8.0
O BMV+p	MT20	3.0	4.0
P BVWVW-t	MT20	6.0	12.0 3.75 7.75
Q BMWV-t	MT20	4.0	4.0
R BMWV+t	MT20	4.0	8.0
S BVWVW-t	MT20	6.0	12.0 3.25 4.25
T BMV+p	MT20	3.0	4.0
U BMWVWVW-t	MT20	8.0	9.0 3.25 2.25

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
X	2103	0	2103	0
N	2108	0	2108	0

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
X	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) X, N

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.27 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	C-W	0 / 143	0.03 (4)	
B-C	0 / 18	-91.8 -91.8 0.16 (1)	10.00	W-D	0 / 91	0.03 (4)	
C-D	-2364 / 0	-91.8 -91.8 0.24 (1)	4.25	D-U	0 / 1318	0.30 (1)	
D-E	-2923 / 0	-91.8 -91.8 0.76 (1)	3.39	U-E	-589 / 0	0.34 (1)	
E-F	-2924 / 0	-91.8 -91.8 0.58 (1)	3.39	S-I	0 / 574	0.13 (1)	
F-G	-3653 / 0	-91.8 -91.8 0.31 (1)	3.45	R-I	-891 / 0	0.34 (1)	
G-H	-3673 / 0	-91.8 -91.8 0.51 (1)	3.27	R-J	0 / 1353	0.30 (1)	
H-I	-3673 / 0	-91.8 -91.8 0.51 (1)	3.27	Q-J	0 / 191	0.05 (4)	
I-J	-3277 / 0	-91.8 -91.8 0.46 (1)	3.49	Q-K	-771 / 0	0.42 (1)	
J-K	-2824 / 0	-91.8 -91.8 0.61 (1)	3.64	X-C	-2573 / 0	0.71 (1)	
K-L	-3527 / 0	-91.8 -91.8 0.36 (1)	3.41	U-S	0 / 3236	0.52 (1)	
L-M	0 / 35	-91.8 -91.8 0.12 (1)	10.00	U-F	-785 / 0	0.56 (1)	
X-B	-254 / 0	0.0 0.0 0.03 (1)	7.81	F-S	0 / 658	0.15 (1)	
N-L	-2011 / 0	0.0 0.0 0.21 (1)	5.95	P-N	-143 / 0	0.02 (1)	
X-W	0 / 1844	-18.5 -18.5 0.41 (1)	10.00	P-L	0 / 2959	0.48 (1)	
W-V	0 / 1949	-18.5 -18.5 0.43 (1)	10.00				
V-U	0 / 1949	-18.5 -18.5 0.43 (1)	10.00				
U-T	0 / 99	-18.5 -18.5 0.16 (4)	10.00				
T-S	0 / 53	0.0 0.0 0.14 (1)	10.00				
S-G	-368 / 0	0.0 0.0 0.17 (1)	7.81				
R-R	0 / 3277	-18.5 -18.5 0.58 (1)	10.00				
Q-P	0 / 2337	-18.5 -18.5 0.45 (1)	10.00				
O-P	0 / 3088	-18.5 -18.5 0.57 (1)	10.00				
P-K	0 / 17	0.0 0.0 0.19 (1)	10.00				
O-N	0 / 168	0.0 0.0 0.21 (1)	10.00				
	0 / 118	-18.5 -18.5 0.03 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

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 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.41")

CSI: TC=0.76/1.00 (D-E:1), BC=0.58/1.00 (R-S:1), WB=0.71/1.00 (C-X:1), SS=0.27/1.00 (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 (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	650 371	1747 788
		1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (U) (INPUT = 0.90)
JSI METAL= 0.65 (U) (INPUT = 1.00)



Structural component only
DWG# T-2115601 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411095	T32S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
V	BS-t	MT20	3.0	6.0		
W	BMWW-t	MT20	4.0	4.0		
X	BMWW1-t	MT20	5.0	6.0		

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

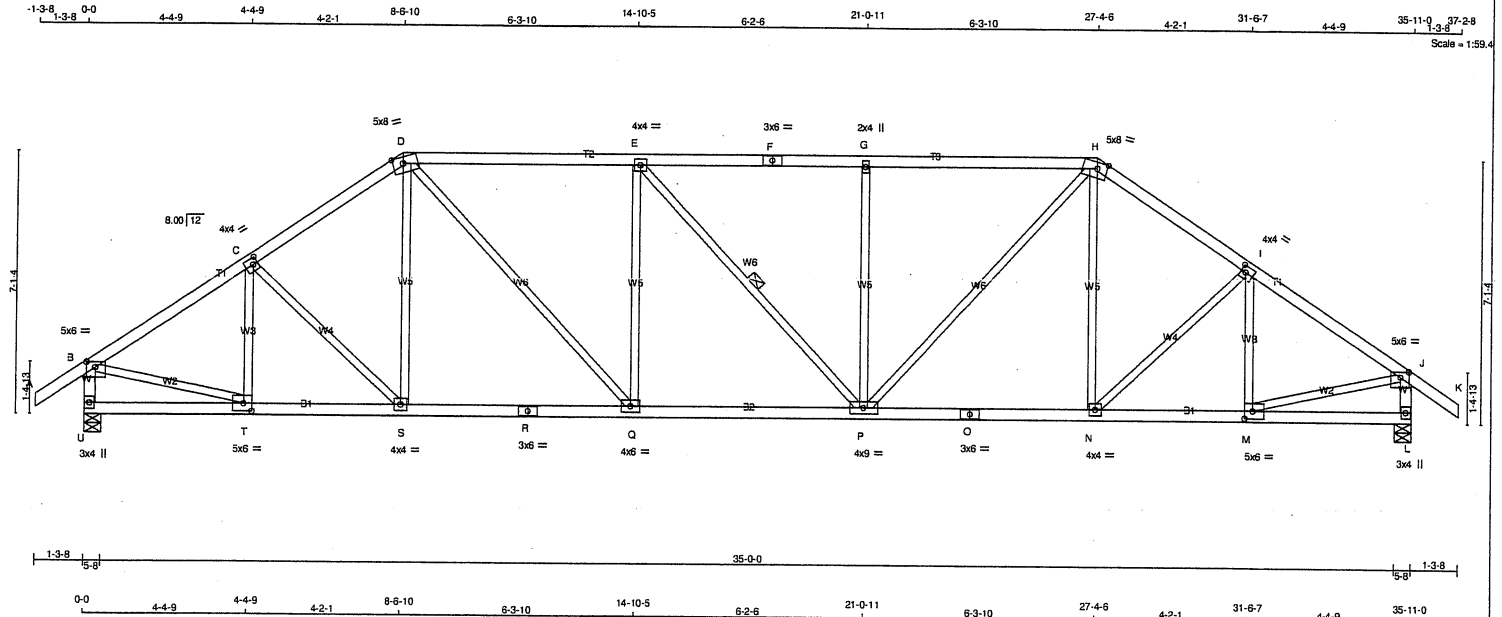
NOTES- (1)
1) Lateral braces to be a minimum of 2x4 SPF #2



JOB NAME 411094	TRUSS NAME T33	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 14:54:34 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNRz_BuP-B6tfOmRSoVolzo2T30pU0r?biCGEw6TQ75sGzCxU



TOTAL WEIGHT = 157 lb [M]

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
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
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	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	9.0		
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	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
U	2106	0	2106	0	0	5-8	5-8		
L	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
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 = 3.56 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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			W E B S		
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM	TO			FR-TO		
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	T-C	-408 / 0	0.11 (1)
B-C	-2324 / 0	-91.8	-91.8	0.37 (1)	4.15	C-S	-88 / 0	0.04 (1)
C-D	-2317 / 0	-91.8	-91.8	0.37 (1)	4.16	S-D	0 / 152	0.04 (4)
D-E	-2591 / 0	-91.8	-91.8	0.72 (1)	3.56	D-Q	0 / 1007	0.23 (1)
E-F	-2590 / 0	-91.8	-91.8	0.71 (1)	3.57	Q-E	-622 / 0	0.54 (1)
F-G	-2590 / 0	-91.8	-91.8	0.71 (1)	3.57	E-P	-2 / 0	0.00 (1)
G-H	-2590 / 0	-91.8	-91.8	0.71 (1)	3.58	P-G	-622 / 0	0.54 (1)
H-I	-2318 / 0	-91.8	-91.8	0.37 (1)	4.16	P-H	0 / 1005	0.23 (1)
I-J	-2324 / 0	-91.8	-91.8	0.37 (1)	4.15	N-H	0 / 153	0.04 (4)
J-K	0 / 35	-91.8	-91.8	0.12 (1)	10.00	N-I	-68 / 0	0.04 (1)
U-B	-2068 / 0	0.0	0.0	0.21 (1)	5.88	M-I	-409 / 0	0.11 (1)
L-J	-2068 / 0	0.0	0.0	0.21 (1)	5.88	B-T	0 / 2012	0.45 (1)
						M-J	0 / 2012	0.45 (1)
U-T	0 / 0	-18.5	-18.5	0.08 (4)	10.00			
T-S	0 / 1954	-18.5	-18.5	0.38 (1)	10.00			
S-R	0 / 1906	-18.5	-18.5	0.38 (1)	10.00			
R-Q	0 / 1906	-18.5	-18.5	0.38 (1)	10.00			
Q-P	0 / 2591	-18.5	-18.5	0.49 (1)	10.00			
P-O	0 / 1906	-18.5	-18.5	0.37 (1)	10.00			
O-N	0 / 1906	-18.5	-18.5	0.37 (1)	10.00			
N-M	0 / 1954	-18.5	-18.5	0.38 (1)	10.00			
M-L	0 / 0	-18.5	-18.5	0.08 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.25")

CSI: TC=0.72/1.00 (D-E:1), BC=0.49/1.00 (P-Q:1),
WB=0.54/1.00 (E-Q:1), SS=0.27/1.00 (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= 0.64 (O) (INPUT = 1.00)



Structural component only
DWG# T-2115587

amarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:36 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-7V_Qj4n5_PoVXHqBbU2HZRXPgYtAiqVtQaz78zCxUH

Scale = 1:60.0

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 - 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 - U 2x4 DRY No.2 SPF
U - F 2x4 DRY No.2 SPF
T - R 2x4 DRY No.2 SPF
R - P 2x4 DRY No.2 SPF
O - K 2x4 DRY No.2 SPF
O - N 2x4 DRY No.2 SPF
ALL WEBS 2x3 DRY No.2 SPF
EXCEPT
V - T 2x4 DRY No.2 SPF
P - N 2x4 DRY No.2 SPF
DRY: SEASONED LUMBER.

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
B TMVW-p MT20 5.0 6.0 1.75 2.75
C TMVW-t MT20 4.0 4.0 2.00 1.50
D TTWW+m MT20 5.0 8.0 Edge 1.75
E TMVW-t MT20 4.0 6.0
F TMV+p MT20 3.0 4.0
G TS-t MT20 3.0 6.0
H TMVW-t MT20 4.0 4.0
I TTWW-m MT20 5.0 8.0 1.75 3.75
J TMVW-t MT20 4.0 4.0
K TMV+p MT20 3.0 4.0
L TMVW-p MT20 5.0 8.0 Edge 3.50
N BMVW1-t MT20 4.0 6.0
O BMV+p MT20 3.0 4.0
P BVWVWW-I MT20 6.0 10.0 3.00 2.75
Q BMVW-t MT20 4.0 4.0
R BS-t MT20 3.0 6.0
S BMVW-t MT20 4.0 6.0
T BVWVWW-I MT20 6.0 9.0 Edge 2.75
U BMV+p MT20 3.0 4.0
V BMVW-t MT20 5.0 8.0 2.25 2.00

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
Z 2103 0 2103 0 0 5-8 5-8
N 2108 0 2108 0 0 5-8 5-8

UNFACTORED REACTIONS
1ST LCASE MAX/MIN COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
Z 1485 988 / 0 0 / 0 0 / 0 497 / 0 0 / 0
N 1489 990 / 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 = 3.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-V.
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 LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	Y-C	-401 / 0	0.11 (1)	
B-C	-2322 / 0	-91.8 -91.8 0.37 (1)	4.15	C-X	-74 / 0	0.04 (1)	
C-D	-2310 / 0	-91.8 -91.8 0.37 (1)	4.16	X-D	0 / 133	0.03 (4)	
D-E	-2444 / 0	-91.8 -91.8 0.37 (1)	4.05	D-V	0 / 981	0.22 (1)	
E-F	-3061 / 0	-91.8 -91.8 0.42 (1)	3.63	V-E	-1254 / 0	0.40 (1)	
F-G	-3071 / 0	-91.8 -91.8 0.49 (1)	3.55	E-T	0 / 2454	0.39 (1)	
G-H	-3071 / 0	-91.8 -91.8 0.48 (1)	3.55	E-T	0 / 996	0.22 (1)	
H-I	-2901 / 0	-91.8 -91.8 0.48 (1)	3.66	Q-I	0 / 386	0.09 (1)	
I-J	-2696 / 0	-91.8 -91.8 0.29 (1)	3.97	Q-J	-368 / 0	0.15 (1)	
J-K	-3014 / 0	-91.8 -91.8 0.31 (1)	3.77	J-P	0 / 62	0.02 (4)	
K-L	-2980 / 0	-91.8 -91.8 0.21 (1)	3.86	B-Y	0 / 2011	0.45 (1)	
L-M	0 / 35	-91.8 -91.8 0.12 (1)	10.00	P-N	-132 / 0	0.01 (1)	
Z-B	-2066 / 0	0.0 0.0 0.21 (1)	5.89	P-L	0 / 2445	0.55 (1)	
N-L	-2025 / 0	0.0 0.0 0.21 (1)	5.94	S-I	0 / 1040	0.23 (1)	
				T-H	0 / 267	0.06 (1)	
				S-H	-711 / 0	0.42 (1)	
Z-Y	0 / 0	-18.5 -18.5 0.07 (4)	10.00				
Y-X	0 / 1952	-18.5 -18.5 0.35 (1)	10.00				
X-W	0 / 1900	-18.5 -18.5 0.35 (1)	10.00				
W-V	0 / 1900	-18.5 -18.5 0.35 (1)	10.00				
V-U	0 / 60	-18.5 -18.5 0.10 (4)	10.00				
U-T	0 / 37	0.0 0.0 0.09 (1)	10.00				
T-F	-391 / 0	0.0 0.0 0.19 (1)	7.81				
T-S	0 / 2901	-18.5 -18.5 0.53 (1)	10.00				
R-R	0 / 2228	-18.5 -18.5 0.46 (1)	10.00				
S-Q	0 / 2228	-18.5 -18.5 0.46 (1)	10.00				
Q-P	0 / 2487	-18.5 -18.5 0.51 (1)	10.00				
O-P	0 / 17	0.0 0.0 0.16 (1)	10.00				
P-K	-155 / 0	0.0 0.0 0.15 (1)	7.81				
O-N	0 / 113	-18.5 -18.5 0.03 (1)	10.00				

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF
SPACING = 24.0 IN.C/C
LOADING IN FLAT SECTION BASED ON A SLOPE OF 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.

JOB NAME 411094	TRUSS NAME T33S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:36 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-7V Qi4n5 PoVXHvQbU2HZRXPgYtAiqVltQaz78zCxUH

PLATES (table is in inches)

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

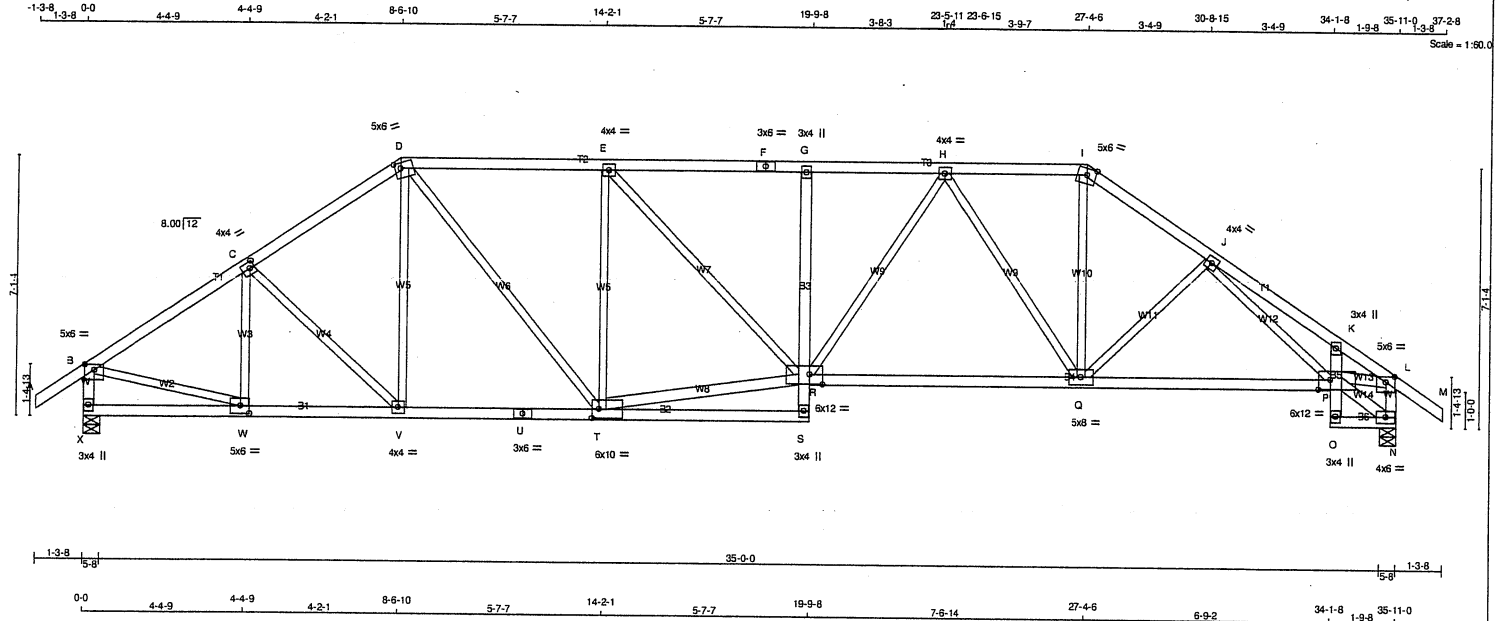


Structural component only
DWG# T-2115588 *in*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411095	T33S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 15:18:03 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-RBVJ0Bpfdi4tqW0rWToE58io4j3As3HsQqvw05zCx8l



TOTAL WEIGHT = 168 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - M	2x4	DRY	No.2
X - B	2x4	DRY	No.2
N - L	2x4	DRY	No.2
X - U	2x4	DRY	No.2
U - S	2x4	DRY	No.2
S - G	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
P - N	2x4	DRY	No.2
P - L	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 1.75 3.00
C	TMVW-t	MT20	4.0	4.0 2.00 1.50
D	TTVW-m	MT20	5.0	6.0 1.75 2.00
E, H, J				
E	TMVW-t	MT20	4.0	4.0
F	TS-t	MT20	3.0	6.0
G	TMV-p	MT20	3.0	4.0
I	TTW-m	MT20	5.0	6.0 Edge
K	TMV-p	MT20	3.0	4.0
L	TMVW-p	MT20	5.0	6.0 1.75 3.00
N	BMVW1-t	MT20	4.0	6.0
O	BMV-p	MT20	3.0	4.0
P	BMVWWW-I	MT20	6.0	12.0 3.25 4.00
Q	BMVWW-t	MT20	5.0	8.0
R	BMVWWW-I	MT20	6.0	12.0 3.25 4.25
S	BMV-p	MT20	3.0	4.0
T	BMVWWW-t	MT20	6.0	10.0 3.00 2.25
U	BS-t	MT20	3.0	6.0
V	BMVW-t	MT20	4.0	4.0
W	BMVW-t	MT20	5.0	6.0 2.50 2.75

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
X	2103	0	2103	0	5-8	5-8
N	2108	0	2108	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
X	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) X, N

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	W-C	-403 / 0	0.11 (1)
B-C	-2322 / 0	-91.8	-91.8	0.37 (1)	4.15	C-V	-72 / 0	0.04 (1)
C-D	-2311 / 0	-91.8	-91.8	0.37 (1)	4.16	V-D	0 / 141	0.04 (4)
D-E	-2534 / 0	-91.8	-91.8	0.60 (1)	3.72	D-T	0 / 1001	0.23 (1)
E-F	-3036 / 0	-91.8	-91.8	0.65 (1)	3.38	T-E	-1109 / 0	0.97 (1)
F-G	-3036 / 0	-91.8	-91.8	0.65 (1)	3.38	T-R	0 / 2520	0.41 (1)
G-H	-3047 / 0	-91.8	-91.8	0.32 (1)	3.74	E-R	0 / 715	0.16 (1)
H-I	-2250 / 0	-91.8	-91.8	0.24 (1)	4.35	R-H	0 / 507	0.11 (1)
I-J	-2703 / 0	-91.8	-91.8	0.28 (1)	3.98	H-Q	-949 / 0	0.87 (1)
J-K	-3023 / 0	-91.8	-91.8	0.30 (1)	3.77	Q-I	0 / 1214	0.27 (1)
K-L	-2997 / 0	-91.8	-91.8	0.21 (1)	3.86	Q-J	-364 / 0	0.15 (1)
L-M	0 / 35	-91.8	-91.8	0.12 (1)	10.00	J-P	0 / 65	0.02 (4)
X-B	-2066 / 0	0.0	0.0	0.21 (1)	5.89	B-W	0 / 2010	0.45 (1)
N-L	-2032 / 0	0.0	0.0	0.21 (1)	5.93	P-N	-117 / 0	0.01 (1)
						P-L	0 / 2462	0.40 (1)
X-W	0 / 0	-18.5	-18.5	0.07 (4)	10.00			
W-V	0 / 1952	-18.5	-18.5	0.38 (1)	10.00			
V-U	0 / 1901	-18.5	-18.5	0.38 (1)	10.00			
U-T	0 / 1901	-18.5	-18.5	0.38 (1)	10.00			
T-S	0 / 65	-18.5	-18.5	0.14 (4)	10.00			
S-R	0 / 45	0.0	0.0	0.10 (1)	10.00			
R-G	-400 / 0	0.0	0.0	0.20 (1)	7.81			
R-Q	0 / 2768	-18.5	-18.5	0.60 (1)	10.00			
Q-P	0 / 2491	-18.5	-18.5	0.56 (1)	10.00			
O-P	0 / 17	0.0	0.0	0.14 (1)	10.00			
P-K	-157 / 0	0.0	0.0	0.14 (1)	7.81			
O-N	0 / 100	-18.5	-18.5	0.02 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.65/1.00 (E-G:1), BC=0.60/1.00 (Q-R:1), WB=0.97/1.00 (E-T: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 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 (L) (INPUT = 0.90)
JSI METAL= 0.58 (U) (INPUT = 1.00)



Structural component only
DWG# T-2115602

JOB NAME 411095	TRUSS NAME T33S1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21, 2021 MiTek Industries, Inc. Tue May 25 15:18:03 2021 Page 2
ID:GAonzd6DLBrd2xE89xtNtRz BuP-RBVJ0Bpfdi4tqW0rWToE58io4i3As3HsQqvw05zCx8l

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
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-2115602 *rp*



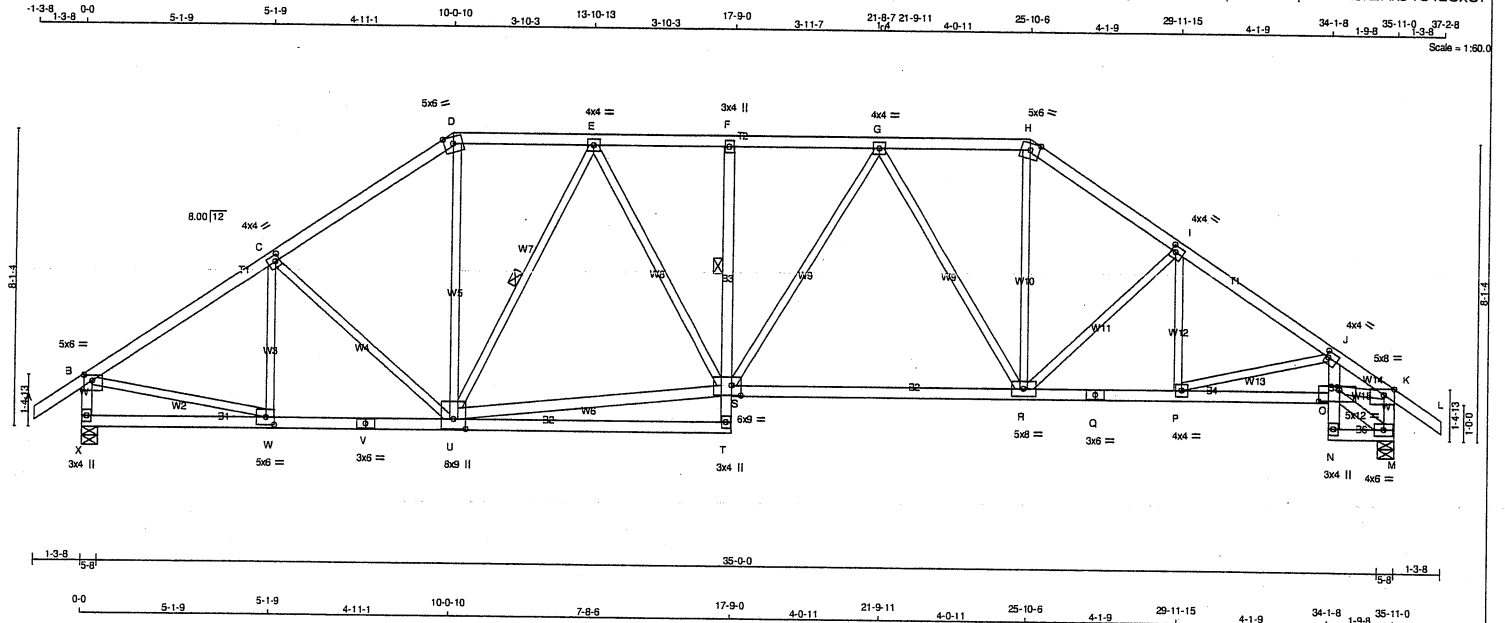
DRY: SEASONED LUMBER

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

JOB NAME 411094	TRUSS NAME T34S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:38 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-4t6A8mplW03Dmb6piu5lfs0mpMZFAek2Kk34C1zCxUF



LUMBER	SIZE	LUMBER	DESCR.
N. L. G. A. RULES			
CHORDS			
A - D	2x4	DRY	No.2
D - H	2x4	DRY	No.2
H - L	2x4	DRY	No.2
X - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
X - V	2x4	DRY	No.2
V - T	2x4	DRY	No.2
T - F	2x4	DRY	No.2
S - Q	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	2x3	DRY	No.2
U - S	2x4	DRY	No.2
O - M	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
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 TTW-m	MT20	5.0	6.0	Edge
E TMVW-t	MT20	4.0	4.0	
F TMV-p	MT20	3.0	4.0	
G TMVW-t	MT20	4.0	4.0	
H TTW-m	MT20	5.0	6.0	Edge
I TMVW-t	MT20	4.0	4.0	2.00 1.50
J TMVW-t	MT20	4.0	4.0	2.00 1.00
K TMVW-p	MT20	5.0	6.0	Edge 3.50
M BMVW-1-t	MT20	4.0	6.0	
N BMV-p	MT20	3.0	4.0	
O BMVW-1-t	MT20	5.0	12.0	3.75 6.75
P BMVW-t	MT20	4.0	4.0	
Q BS-t	MT20	3.0	6.0	
R BMVW-1-t	MT20	5.0	8.0	
S BMVW-1-t	MT20	6.0	9.0	3.25 3.00
T BMV-p	MT20	3.0	4.0	
U BMVW-1-t	MT20	8.0	9.0	3.25 4.00
V BS-t	MT20	3.0	6.0	
W 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 GROSS REACTION	FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
X	2103	0	2103	0
M	2108	0	2108	0

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT COMBINED						
X	1485	988 / 0	0 / 0	0 / 0	497 / 0	0 / 0
M	1489	990 / 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 = 3.68 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-S, 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MAX. UNBRACED LENGTH	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC)
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	W-C	-338 / 0	0.12 (1)	
B-C	-2369 / 0	-91.8	-91.8	0.39 (1)	4.12	C-U	-202 / 0	0.17 (1)	
C-D	-2251 / 0	-91.8	-91.8	0.37 (1)	4.22	U-D	0 / 913	0.21 (1)	
D-E	-1855 / 0	-91.8	-91.8	0.18 (1)	4.77	U-E	-1038 / 0	0.50 (1)	
E-F	-2606 / 0	-91.8	-91.8	0.21 (1)	4.13	U-S	0 / 2264	0.36 (1)	
F-G	-2615 / 0	-91.8	-91.8	0.25 (1)	4.08	E-S	0 / 630	0.14 (1)	
G-H	-2127 / 0	-91.8	-91.8	0.22 (1)	4.47	S-G	0 / 228	0.05 (1)	
H-I	-2564 / 0	-91.8	-91.8	0.28 (1)	4.09	R-H	0 / 1108	0.25 (1)	
I-J	-2929 / 0	-91.8	-91.8	0.32 (1)	3.83	R-I	-480 / 0	0.28 (1)	
J-K	-3373 / 0	-91.8	-91.8	0.21 (1)	3.68	P-I	0 / 81	0.03 (4)	
K-L	0 / 35	-91.8	-91.8	0.12 (1)	10.00	P-J	-481 / 0	0.16 (1)	
X-B	-2059 / 0	0.0	0.0	0.21 (1)	5.89	B-W	0 / 2039	0.46 (1)	
M-K	-2005 / 0	0.0	0.0	0.21 (1)	5.96	O-M	-155 / 0	0.02 (1)	
						O-K	0 / 2783	0.63 (1)	
						G-R	-724 / 0	0.95 (1)	
X-W	0 / 0	-18.5	-18.5	0.11 (4)	10.00				
W-V	0 / 1995	-18.5	-18.5	0.45 (1)	10.00				
V-U	0 / 1995	-18.5	-18.5	0.45 (1)	10.00				
U-T	0 / 61	-18.5	-18.5	0.22 (4)	10.00				
T-S	0 / 63	0.0	0.0	0.09 (1)	10.00				
S-F	-330 / 0	0.0	0.0	0.08 (1)	6.25				
S-R	0 / 2497	-18.5	-18.5	0.55 (1)	10.00				
R-Q	0 / 2457	-18.5	-18.5	0.54 (1)	10.00				
Q-P	0 / 2457	-18.5	-18.5	0.54 (1)	10.00				
P-O	0 / 2923	-18.5	-18.5	0.53 (1)	10.00				
N-O	0 / 17	0.0	0.0	0.20 (1)	10.00				
O-J	0 / 171	0.0	0.0	0.23 (1)	10.00				
N-M	0 / 127	-18.5	-18.5	0.03 (1)	10.00				

TOTAL WEIGHT = 175 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

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 (0.38")

CSI: TC=0.39/1.00 (B-C:1), BC=0.55/1.00 (R-S:1), WB=0.95/1.00 (G-R:1), SS=0.19/1.00 (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 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)
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (U) (INPUT = 0.90)
JSI METAL= 0.73 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2115590

CONTINUED ON PAGE 2

JOB NAME 411094	TRUSS NAME T34S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
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

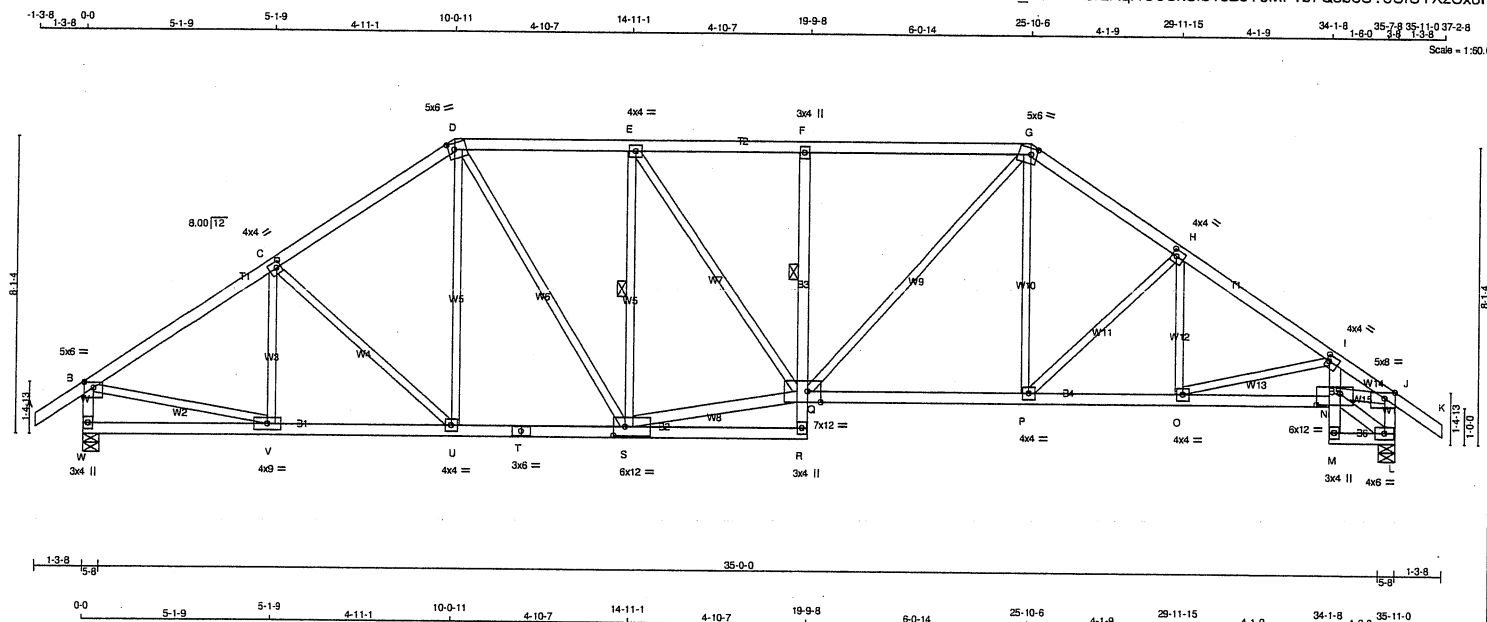


Structural component only
DWG# T-2115590 *mn*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411095	T34S1	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

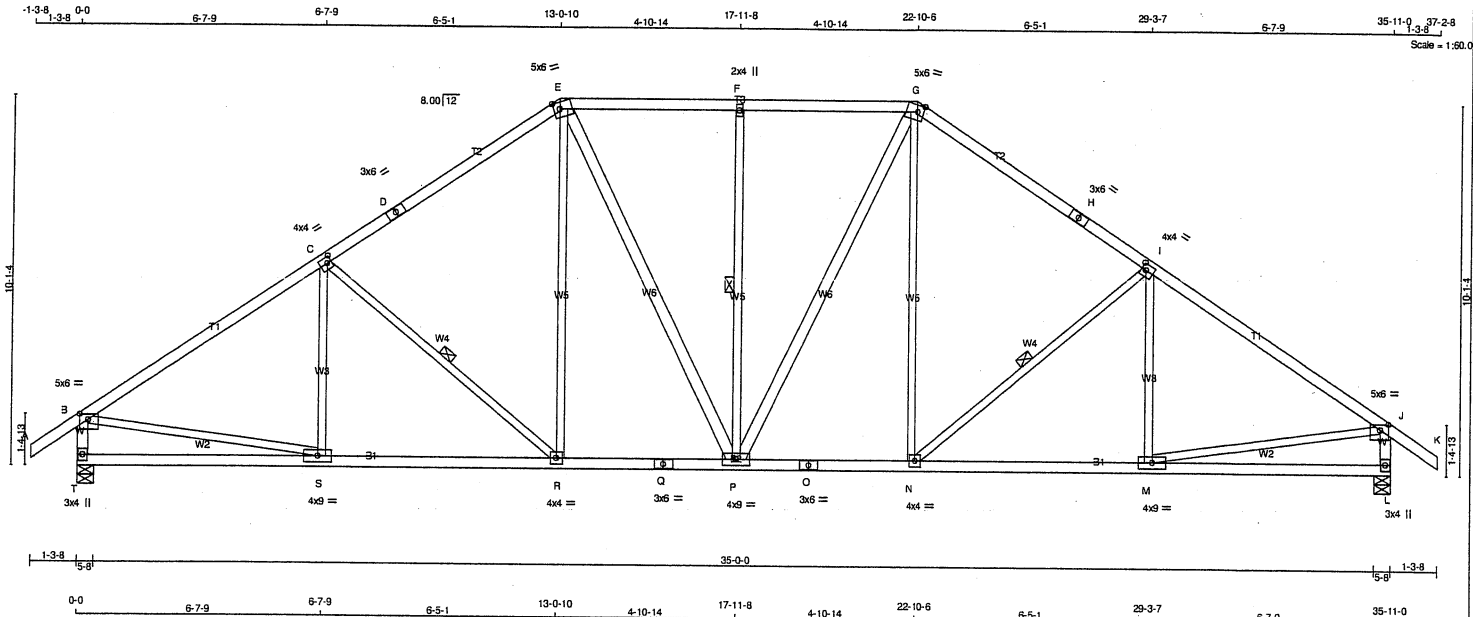
Version 8.420 S Jan 21 2021 MITek Industries, Inc. Tue May 25 15:18:04 2021 Page 1
ID:GAonzd6DLBr2xE89xtNtRz_BuP-vN3iEXqHO0CkSfb13BJTeMF?b7QcbeU?eUfUYXzCx8H



$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$ $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65,536}$ $\frac{1}{65,536} \times \frac{1}{65,536} = \frac{1}{4,294,967,296}$ $\frac{1}{4,294,967,296} \times \frac{1}{4,294,967,296} = \frac{1}{18,446,744,073,709,551,616}$	$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$ $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65,536}$ $\frac{1}{65,536} \times \frac{1}{65,536} = \frac{1}{4,294,967,296}$ $\frac{1}{4,294,967,296} \times \frac{1}{4,294,967,296} = \frac{1}{18,446,744,073,709,551,616}$
--	--

JOB NAME 411094	TRUSS NAME T36	QUANTITY 4	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 4 X 174 = 695 lb
[M/F]

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

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	TMWW-t	MT20	4.0	4.0	2.00 1.50
D	TS-t	MT20	3.0	6.0	
E	TTWW-m	MT20	5.0	6.0	2.25 2.00
F	TMW-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	TMWW-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	BMWW-t	MT20	4.0	9.0	
N	BMWW-t	MT20	4.0	4.0	
O	BS-t	MT20	3.0	6.0	
P	BMWWWW-t	MT20	4.0	9.0	
Q	BS-t	MT20	3.0	6.0	
R	BMWW-t	MT20	4.0	4.0	
S	BMWW-t	MT20	4.0	9.0	
T	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
T	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			
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 = 3.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	S-C	-198 / 43	0.10 (1)
B-C	-2418 / 0	-91.8 -91.8	0.70 (1)	3.72	C-R	-477 / 0	0.24 (1)
C-D	-2062 / 0	-91.8 -91.8	0.63 (1)	4.04	R-E	0 / 414	0.09 (1)
D-E	-2062 / 0	-91.8 -91.8	0.63 (1)	4.04	E-P	0 / 350	0.06 (1)
E-F	-1841 / 0	-91.8 -91.8	0.32 (1)	4.63	P-F	-545 / 0	0.38 (1)
F-G	-1841 / 0	-91.8 -91.8	0.32 (1)	4.63	P-G	0 / 350	0.06 (1)
G-H	-2062 / 0	-91.8 -91.8	0.63 (1)	4.04	N-G	0 / 414	0.09 (1)
H-I	-2062 / 0	-91.8 -91.8	0.63 (1)	4.04	N-I	-477 / 0	0.24 (1)
I-J	-2418 / 0	-91.8 -91.8	0.70 (1)	3.72	M-I	-198 / 43	0.10 (1)
J-K	0 / 35	-91.8 -91.8	0.12 (1)	10.00	B-S	0 / 2072	0.47 (1)
T-B	-2055 / 0	0.0 0.0	0.21 (1)	5.90	M-J	0 / 2072	0.47 (1)
L-J	-2055 / 0	0.0 0.0	0.21 (1)	5.90			

T-S	0 / 0	-18.5 -18.5	0.19 (4)	10.00
S-R	0 / 2045	-18.5 -18.5	0.42 (1)	10.00
R-Q	0 / 1685	-18.5 -18.5	0.34 (1)	10.00
Q-P	0 / 1685	-18.5 -18.5	0.34 (1)	10.00
P-O	0 / 1685	-18.5 -18.5	0.34 (1)	10.00
O-N	0 / 1685	-18.5 -18.5	0.34 (1)	10.00
N-M	0 / 2045	-18.5 -18.5	0.42 (1)	10.00
M-L	0 / 0	-18.5 -18.5	0.19 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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 (1.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.70/1.00 (I-J:1), BC=0.42/1.00 (M-N:1),
WB=0.47/1.00 (J-M:1), SSI=0.24/1.00 (I-J: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.

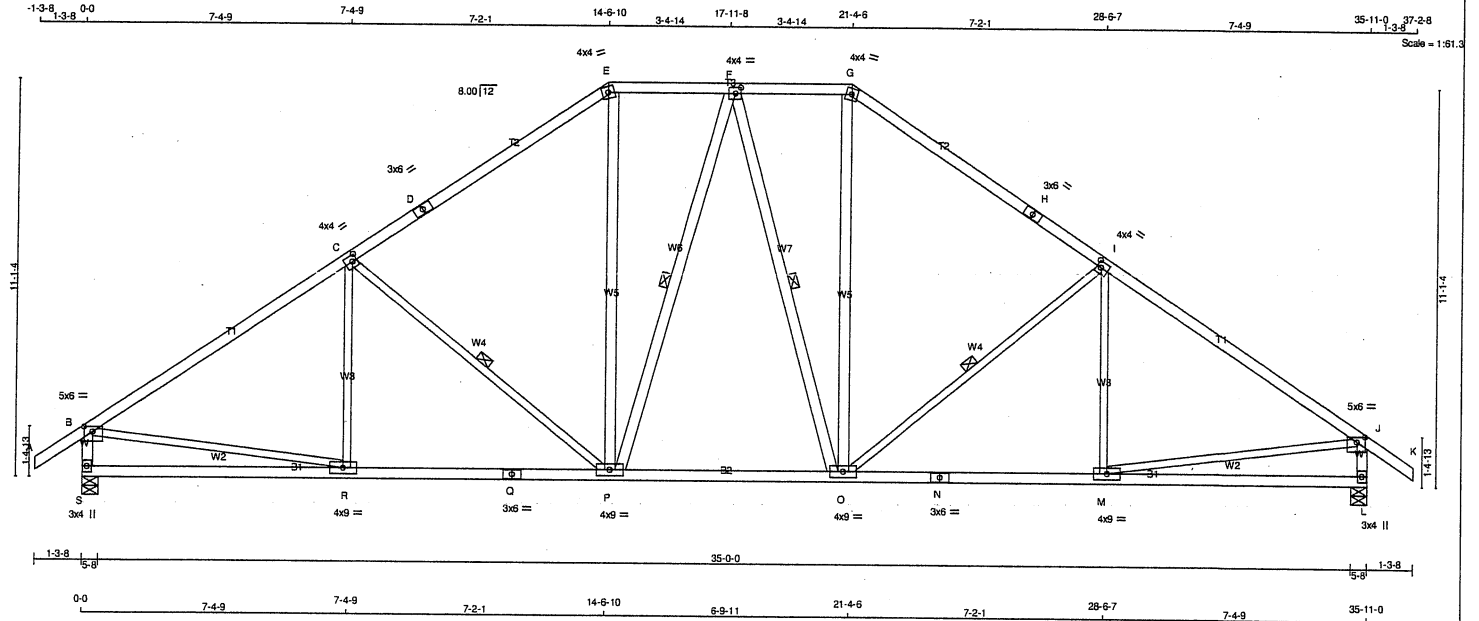
JSI GRIP = 0.85 (J) (INPUT = 0.90)
JSI METAL = 0.51 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2115592

JOB NAME 411094	TRUSS NAME T37	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
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
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 EXCEPT	2x3	DRY	No.2
P - E	2x4	DRY	No.2
P - F	2x4	DRY	No.2
F - O	2x4	DRY	No.2
O - G	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	1.75	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.50
D	TS-t	MT20	3.0	6.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW-t	MT20	4.0	4.0	2.00	1.75
G	TTW-m	MT20	4.0	4.0		
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	1.75	2.75
L	BMV1+p	MT20	3.0	4.0		
M	BMVW-t	MT20	4.0	9.0		
N	BS-t	MT20	3.0	6.0		
O	BMVW-t	MT20	4.0	9.0		
P	BMVW-t	MT20	4.0	9.0		
Q	BS-t	MT20	3.0	6.0		
R	BMVW-t	MT20	4.0	9.0		
S	BMV1+p	MT20	3.0	4.0		

NOTES

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
S	2106	0	2106	0	5-8	5-8	5-8	
L	2106	0	2106	0	5-8	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
S	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) S, L

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.41 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-P, F-P, F-O, I-O.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	R-C	-148 / 71	0.10 (1)
B-C	-2418 / 0	-91.8 -91.8	0.90 (1)	3.41	C-P	-597 / 0	0.38 (1)
C-D	-1956 / 0	-91.8 -91.8	0.79 (1)	3.85	P-E	0 / 683	0.11 (1)
D-E	-1956 / 0	-91.8 -91.8	0.79 (1)	3.85	P-F	-188 / 0	0.13 (1)
E-F	-1597 / 0	-91.8 -91.8	0.15 (1)	5.10	F-O	-192 / 0	0.14 (1)
F-G	-1597 / 0	-91.8 -91.8	0.15 (1)	5.10	O-G	0 / 688	0.11 (1)
G-H	-1956 / 0	-91.8 -91.8	0.79 (1)	3.85	O-I	-597 / 0	0.38 (1)
H-I	-1956 / 0	-91.8 -91.8	0.79 (1)	3.85	M-L	-148 / 71	0.10 (1)
I-J	-2418 / 0	-91.8 -91.8	0.90 (1)	3.41	B-R	0 / 2071	0.47 (1)
J-K	0 / 35	-91.8 -91.8	0.12 (1)	10.00	M-J	0 / 2071	0.47 (1)
S-B	-2050 / 0	0.0 0.0	0.21 (1)	5.91			
L-J	-2050 / 0	0.0 0.0	0.21 (1)	5.91			
S-R	0 / 0	-18.5 -18.5	0.24 (4)	10.00			
R-Q	0 / 2049	-18.5 -18.5	0.45 (1)	10.00			
Q-P	0 / 2049	-18.5 -18.5	0.45 (1)	10.00			
P-O	0 / 1652	-18.5 -18.5	0.36 (1)	10.00			
O-N	0 / 2049	-18.5 -18.5	0.45 (1)	10.00			
N-M	0 / 2049	-18.5 -18.5	0.45 (1)	10.00			
M-L	0 / 0	-18.5 -18.5	0.24 (4)	10.00			

TOTAL WEIGHT = 2 X 179 = 359 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

(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 (0.20")

CSI: TC=0.90/1.00 (B-C:1), BC=0.45/1.00 (P-R:1),
WB=0.47/1.00 (B-R:1), SSI=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

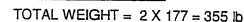
JSI GRIP= 0.85 (J) (INPUT = 0.90)

JSI METAL= 0.68 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2115593

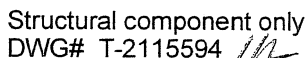
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:43 2021 Page 1
ID:GAonzd6DLBr2xEx89xtNrZ_BuP-Qv3BTtUKZhWtM mVShwMvWcNDSrzZnU0nrEzCxUA



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

AD-AD	0 / 0	-18.5	-18.5	0.04 (4)	10.00
AD-AE	0 / 0	-18.5	-18.5	0.04 (4)	10.00
AE-V	0 / 0	-18.5	-18.5	0.04 (4)	10.00
VE-FA	0 / 5078	-18.5	-18.5	0.47 (1)	10.00
AF-AG	0 / 5078	-18.5	-18.5	0.47 (1)	10.00
AG-U	0 / 5078	-18.5	-18.5	0.47 (1)	10.00
U-AH	0 / 8044	-18.5	-18.5	0.68 (1)	10.00
AH-T	0 / 8044	-18.5	-18.5	0.68 (1)	10.00
T-TI	0 / 6866	-18.5	-18.5	0.67 (1)	10.00
AI-S	0 / 6866	-18.5	-18.5	0.67 (1)	10.00
S-AJ	0 / 6866	-18.5	-18.5	0.67 (1)	10.00
AJ-AK	0 / 6866	-18.5	-18.5	0.67 (1)	10.00
AK-R	0 / 6866	-18.5	-18.5	0.67 (1)	10.00
R-AL	0 / 8011	-18.5	-18.5	0.74 (1)	10.00
AL-AM	0 / 8011	-18.5	-18.5	0.74 (1)	10.00
AM-AN	0 / 8011	-18.5	-18.5	0.74 (1)	10.00
AN-AO	0 / 8011	-18.5	-18.5	0.74 (1)	10.00
AO-Q	0 / 8011	-18.5	-18.5	0.74 (1)	10.00
Q-P	0 / 5529	-18.5	-18.5	0.54 (1)	10.00
P-AP	0 / 5529	-18.5	-18.5	0.54 (1)	10.00
AP-AQ	0 / 5529	-18.5	-18.5	0.54 (1)	10.00
AQ-O	0 / 5529	-18.5	-18.5	0.54 (1)	10.00
O-OR	0 / 5126	-18.5	-18.5	0.46 (1)	10.00

JSI GRIP= 0.85 (E) (INPUT = 0.90)
JSI METAL = 0.70 (S) (INPUT = 1.00)



JOB NAME 411094	TRUSS NAME T38	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:43 2021 Page 2
ID:GAonzd6DLBrd2xE89xNtRz BuP-Qrv3BTtUKZhWtM mVShwMvWcNDSrzZnU0nrtEzCxUA

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	5.0	8.0	Edge	
C	TTWW+m	MT20	7.0	8.0	Edge	2.50
D	TTWW-m	MT20	5.0	8.0	2.50	3.25
E	TTWW-m	MT20	5.0	8.0	2.00	3.25
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	6.0	9.0	Edge	
J	TMWW-t	MT20	4.0	4.0	2.00	1.50
K	TMW-p	MT20	5.0	8.0	Edge	
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	8.0	2.50	3.00
O, Q, T						
O	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
R	BMWWW-t	MT20	5.0	8.0		
S	BS-t	MT20	5.0	6.0		
U	BMWWW-t	MT20	5.0	6.0	2.75	2.00
V	BMWW-t	MT20	5.0	8.0	2.50	3.50
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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)
FR-TO		FROM TO		FR-TO		LENGTH FR-TO	
AR-AS	0 / 5126	-18.5	-18.5 0.46 (1)			10.00	
AS-N	0 / 5126	-18.5	-18.5 0.46 (1)			10.00	
N-AT	0 / 0	-18.5	-18.5 0.11 (1)			10.00	
AT-M	0 / 0	-18.5	-18.5 0.11 (1)			10.00	

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-41	-41	---	FRONT	VERT	DEAD	---	C1
C	4-0-11	-173	-173	---	FRONT	VERT	SNOW	---	C1
G	19-11-12	-17	-17	---	BACK	VERT	TOTAL	---	C1
I	28-10-6	-84	-84	---	FRONT	VERT	DEAD	---	C1
I	28-10-6	-356	-356	---	FRONT	VERT	SNOW	---	C1
P	23-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
R	16-7-4	-253	-253	---	BACK	VERT	TOTAL	---	C1
X	4-7-4	-90	-90	---	BACK	VERT	TOTAL	---	C1
Y	19-2-12	-17	-17	---	BACK	VERT	TOTAL	---	C1
Z	21-11-12	-17	-17	---	BACK	VERT	TOTAL	---	C1
AA	23-11-12	-17	-17	---	BACK	VERT	TOTAL	---	C1
AB	25-11-12	-17	-17	---	BACK	VERT	TOTAL	---	C1
AC	27-11-12	-21	-21	---	BACK	VERT	TOTAL	---	C1
AD	1-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AE	2-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AF	4-7-4	-21	-21	---	BACK	VERT	TOTAL	---	C1
AG	6-7-4	-253	-253	---	BACK	VERT	TOTAL	---	C1
AH	8-7-4	-258	-258	---	BACK	VERT	TOTAL	---	C1
AI	10-7-4	-253	-253	---	BACK	VERT	TOTAL	---	C1
AJ	12-7-4	-253	-253	---	BACK	VERT	TOTAL	---	C1
AK	14-7-4	-253	-253	---	BACK	VERT	TOTAL	---	C1
AL	18-1-4	-253	-253	---	BACK	VERT	TOTAL	---	C1
AM	19-2-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
AN	19-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
AO	21-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
AP	25-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
AQ	27-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
AR	29-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
AS	31-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1
AT	33-11-12	-174	-174	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

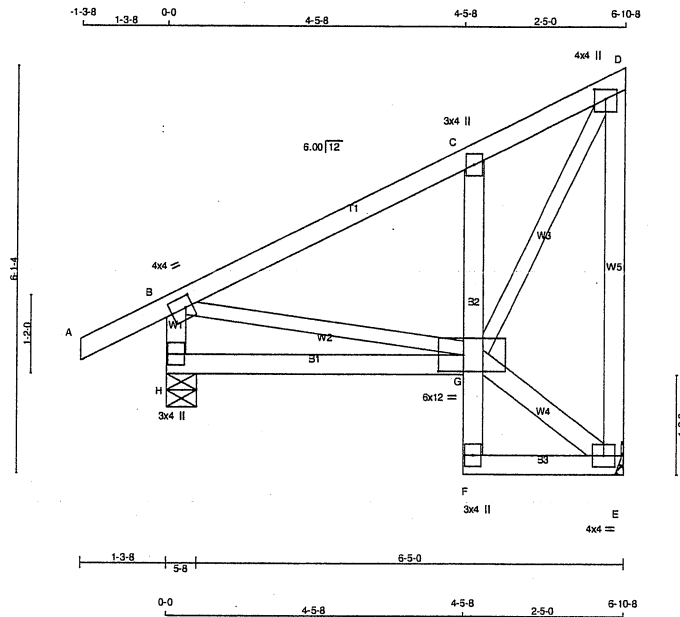


Structural component only
DWG# T-2115594 *mn*

JOB NAME 411094	TRUSS NAME T39S	QUANTITY 5	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 6.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:44 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-u1TRPpu65spNVWZz39C9u7GqRnjTaZOxjgWOPgzCxU9



TOTAL WEIGHT = 5 X 40 = 201 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TMV+p	MT20	3.0	4.0		
D	TMVW+p	MT20	4.0	4.0	1.75	2.00
E	BMVW-t	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BVMWVW-t	MT20	6.0	12.0	3.00	4.50
H	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
H	503	0	503	0
E	379	0	379	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	354	245 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0
E	268	176 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
H-B	-461 / 0	0.0	0.0	0.05 (1)	7.81	B-G	0 / 244
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	G-E	-13 / 0
B-C	-252 / 0	-91.8	-91.8	0.21 (1)	6.25	G-D	0 / 484
C-D	-284 / 0	-91.8	-91.8	0.17 (1)	6.25		
E-D	-351 / 0	0.0	0.0	0.25 (1)	7.81		
H-G	0 / 0	-18.5	-18.5	0.11 (4)	10.00		
F-G	0 / 24	0.0	0.0	0.03 (1)	10.00		
G-C	-416 / 0	0.0	0.0	0.03 (1)	7.81		
F-E	0 / 11	-18.5	-18.5	0.03 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/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 (0.03")

CSI: TC=0.25/1.00 (D-E:1), BC=0.11/1.00 (G-H:4), WB=0.11/1.00 (D-G:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

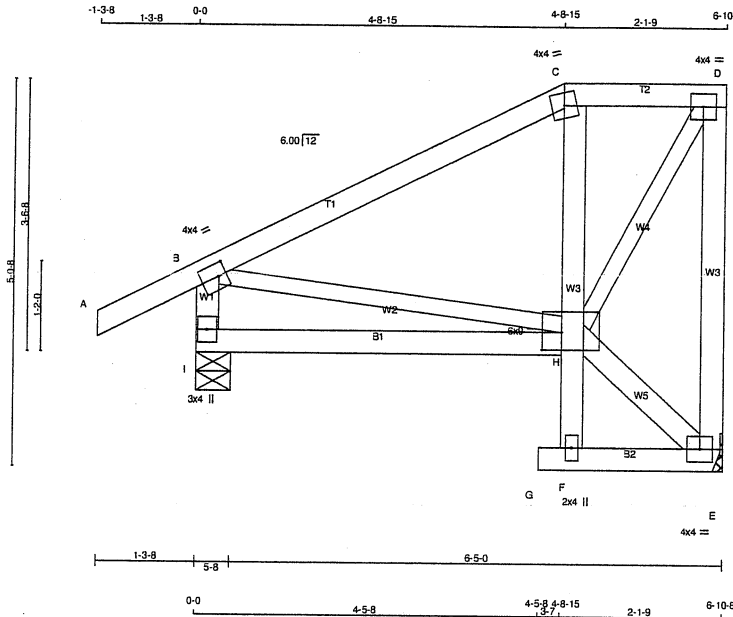
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.50 (D) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115595



Scale = 1:28.6

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)			W	LEN	Y	X
JT	TYPE	PLATES				
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTW-m	MT20	4.0	4.0		
D	TMVW-t	MT20	4.0	4.0		
E	BMVW1-t	MT20	4.0	4.0		
F	BMW+w	MT20	2.0	4.0		
H	BWMWVWV*-I	MT20	6.0	9.0	2.75	3.00
I	BMV1+p	MT20	3.0	4.0		

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	385	0	385	0	0	MECHANICAL	
I	506	0	506	0	0	5-8	5-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	273	176 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
I	356	245 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0

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

BRACING

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	B-H	0 / 177	0.04 (1)
B-C	-196 / 0	-91.8	-91.8 0.26 (1)	6.25	F-H	0 / 29	0.02 (1)
C-D	-159 / 0	-91.8	-91.8 0.05 (1)	6.25	H-C	-229 / 0	0.01 (1)
E-D	-363 / 0	0.0	0.0 0.15 (1)	7.81	H-E	-6 / 0	0.00 (1)
I-B	-460 / 0	0.0	0.0 0.05 (1)	7.81	H-D	0 / 310	0.07 (1)
I-H	0 / 0	-18.5	-18.5 0.13 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.00 (4)	10.00			
F-E	0 / 5	-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

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

ALLOWABLE DEFL.(LL)= L/360 (0.23")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.26/1.00 (B-C:1) , BC=0.13/1.00 (H-I:4) ,
WB=0.07/1.00 (D-H: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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

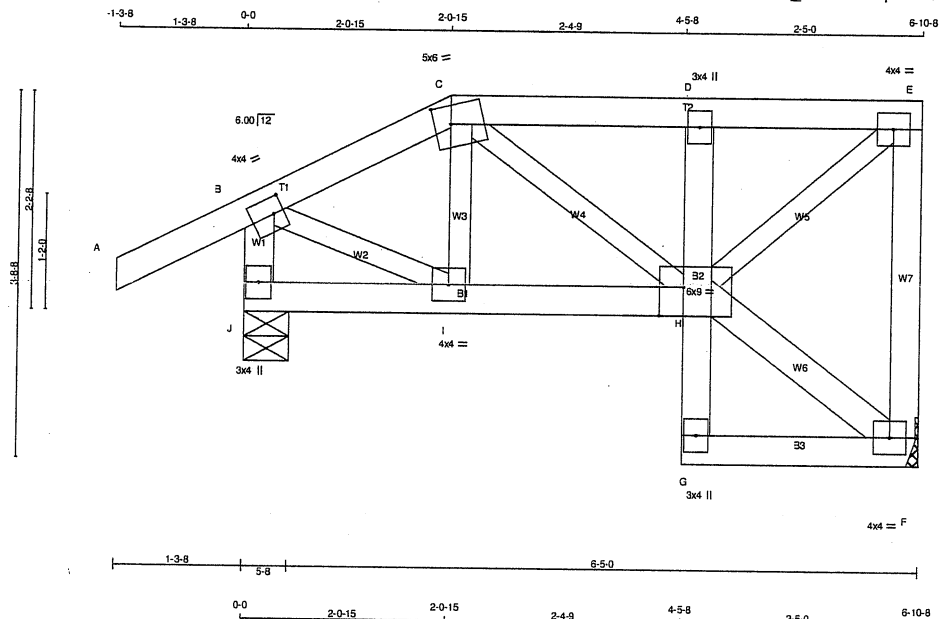
JSI GRIP= 0.33 (D) (INPUT = 0.90)
JSI METAL= 0.12 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115596

JOB NAME 411094	TRUSS NAME T41S	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. Tue May 25 14:54:46 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-rQbCqVvNdU35kqjLAaEdzYLcZaPm2T4EA_?VUZzCxU7



TOTAL WEIGHT = 35 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTWV-m	MT20	5.0	6.0	2.25	2.00
D	TMV+p	MT20	3.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	BMVW-t	MT20	4.0	4.0		
G	BMV+p	MT20	3.0	4.0		
H	BVMVWV-t	MT20	6.0	9.0	Edge	3.00
I	BMVW-t	MT20	4.0	4.0		
J	BMV1+p	MT20	3.0	4.0		

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	MECHANICAL	
F	379	0	379	0	0	5-8	5-8	
J	503	0	503	0	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	268	176 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0
J	354	245 / 0	0 / 0	0 / 0	0 / 0	108 / 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 = 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	10.00	I-C	-69 / 16	0.01 (1)
B-C	-332 / 0	-91.8 -91.8	0.07 (1)	6.25	C-H	0 / 46	0.01 (1)
C-D	-330 / 0	-91.8 -91.8	0.08 (1)	6.25	H-F	-10 / 0	0.00 (1)
D-E	-323 / 0	-91.8 -91.8	0.08 (1)	6.25	H-E	0 / 422	0.10 (1)
F-E	-352 / 0	0.0 0.0	0.07 (1)	7.81	B-I	0 / 319	0.07 (1)
J-B	-486 / 0	0.0 0.0	0.05 (1)	7.81			
J-I	0 / 0	-18.5 -18.5	0.02 (4)	10.00			
I-H	0 / 293	-18.5 -18.5	0.06 (1)	10.00			
G-H	0 / 24	0.0 0.0	0.02 (1)	10.00			
H-D	-265 / 0	0.0 0.0	0.02 (1)	7.81			
G-F	0 / 9	-18.5 -18.5	0.03 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 (0.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.12/1.00 (A-B:1), BC=0.06/1.00 (H-I:1), WB=0.10/1.00 (E-H:1), SI=0.11/1.00 (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 = 0.48 (B) (INPUT = 0.90)
JSI METAL = 0.15 (B) (INPUT = 1.00)

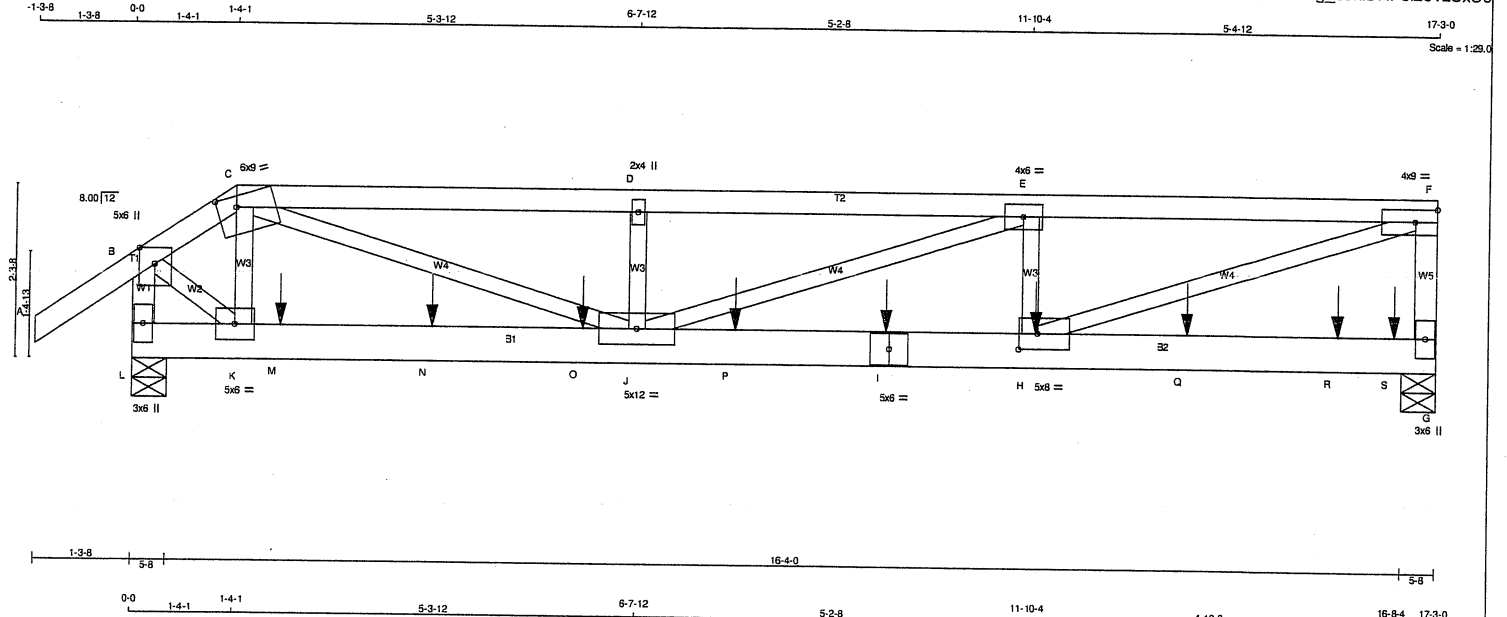


Structural component only
DWG# T-2115597

JOB NAME 411094	TRUSS NAME T42	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

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LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - F	2x4	DRY	No.2	SPF	
G - F	2x4	DRY	No.2	SPF	
L - B	2x4	DRY	No.2	SPF	
L - I	2x6	DRY	No.2	SPF	
I - G	2x6	DRY	No.2	SPF	

ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
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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(19.1)
C - F	12	SIDE(22.9)
F - G	12	TOP
L - B	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
L - I	12	SIDE(5.2)
I - G	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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	REQRD BRG
JT	VERT	DOWN	IN-SX	IN-SX
G	3252	0	5-8	5-8
L	3015	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	2291	1551 / 0	0 / 0	0 / 0	740 / 0	0 / 0
G	2122	1452 / 0	0 / 0	0 / 0	670 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.44 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO									
A-B	0 / 52	-137.7	-137.7	0.10 (1)	10.00	K-C	-323 / 0	0.03 (1)	
B-C	-2765 / 0	-137.7	-137.7	0.12 (1)	5.38	B-K	0 / 2729	0.34 (1)	
C-D	-6468 / 0	-137.7	-137.7	0.51 (1)	3.44	H-F	0 / 6519	0.81 (1)	
D-E	-6468 / 0	-137.7	-137.7	0.46 (1)	3.50	C-J	0 / 4505	0.56 (1)	
E-F	-6143 / 0	-137.7	-137.7	0.50 (1)	3.53	H-E	-909 / 0	0.07 (1)	
G-F	-2497 / 0	0.0	0.0	0.15 (1)	7.16	J-D	-756 / 0	0.06 (1)	
L-B	-3451 / 0	0.0	0.0	0.19 (1)	6.29	J-E	0 / 346	0.04 (1)	
L-K	0 / 0	-27.7	-27.7	0.24 (1)	10.00				
K-M	0 / 2226	-27.7	-27.7	0.39 (1)	10.00				
M-N	0 / 2226	-27.7	-27.7	0.39 (1)	10.00				
N-O	0 / 2226	-27.7	-27.7	0.39 (1)	10.00				
O-J	0 / 2226	-27.7	-27.7	0.39 (1)	10.00				
J-P	0 / 6143	-27.7	-27.7	0.59 (1)	10.00				
P-I	0 / 6143	-27.7	-27.7	0.59 (1)	10.00				
I-H	0 / 6143	-27.7	-27.7	0.59 (1)	10.00				
H-Q	0 / 0	-27.7	-27.7	0.26 (1)	10.00				
Q-R	0 / 0	-27.7	-27.7	0.26 (1)	10.00				
R-S	0 / 0	-27.7	-27.7	0.26 (1)	10.00				
S-G	0 / 0	-27.7	-27.7	0.26 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
H	11-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
I	9-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
M	1-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
N	3-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
O	5-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
P	7-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
Q	13-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
R	15-11.4	-251	-251	---	BACK	VERT	TOTAL	C1
S	16-8.4	-255	-255	---	BACK	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 73 = 146 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 ***
ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (0.57")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (0.57")
CALCULATED VERT. DEFL.(TL) = L/748 (0.28")

CSI: TC=0.51/1.00 (C-D:1), BC=0.59/1.00 (H-J:1), WB=0.81/1.00 (F-H:1), SSI=0.25/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (F) (INPUT = 0.90)
JSI METAL = 0.75 (I) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2115598

JOB NAME 411094	TRUSS NAME T42	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	Edge	
C	TTWW-m	MT20	6.0	9.0	1.75	3.00
D	TMW+w	MT20	2.0	4.0		
E	TMVW-t	MT20	4.0	6.0		
F	TMVW-t	MT20	4.0	9.0	Edge	
G	BMV1+p	MT20	3.0	6.0		
H	BMVW-t	MT20	5.0	8.0	2.50	3.00
I	BS-t	MT20	5.0	6.0		
J	BMVWW-t	MT20	5.0	12.0		
K	BMVW-t	MT20	5.0	6.0		
L	BMV1+p	MT20	3.0	6.0		

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

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

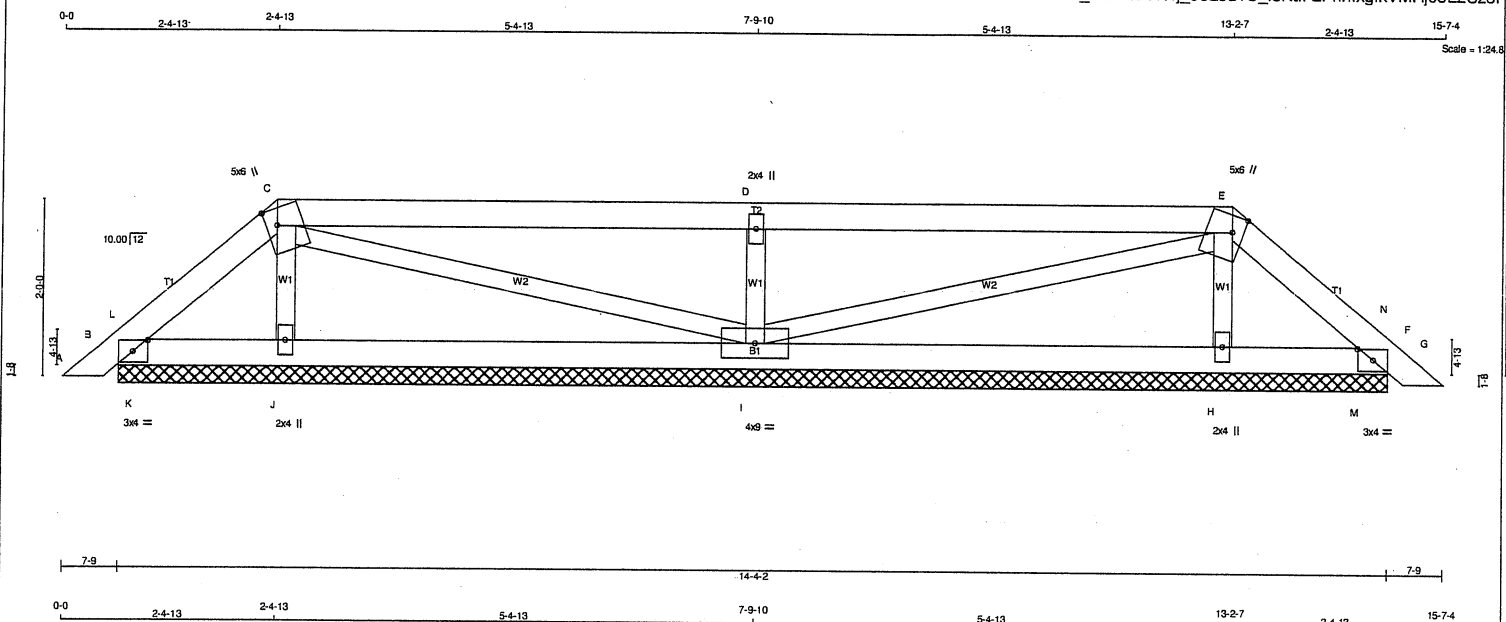


Structural component only
DWG# T-2115598 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411090	PB1	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	1.50 2.00
C	TTWW+m	MT20	5.0	6.0	2.25 1.50
D	TTWW+w	MT20	2.0	4.0	
E	TTWW+m	MT20	5.0	6.0	2.25 1.50
F	TMB1-I	MT20	3.0	4.0	1.50 2.00
H	BMW1+w	MT20	2.0	4.0	
I	BMW1+w	MT20	4.0	9.0	
J	BMW1+w	MT20	2.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	167	0	167	0	14-4-2	14-4-2
F	167	0	167	0	14-4-2	14-4-2
J	307	0	307	0	14-4-2	14-4-2
I	732	0	732	0	14-4-2	14-4-2
H	307	0	307	0	14-4-2	14-4-2

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE		
B	115	94/0	0/0	0/0	21/0	0/0
F	115	94/0	0/0	0/0	21/0	0/0
J	220	125/0	0/0	0/0	95/0	0/0
I	516	351/0	0/0	0/0	165/0	0/0
H	220	125/0	0/0	0/0	95/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/14	-91.8 -91.8 0.02 (1)	10.00	J-C	-207/0	0.03 (1)	
B-L	-28/8	-91.8 -91.8 0.02 (1)	6.25	C-I	-21/0	0.01 (1)	
L-C	-61/0	-91.8 -91.8 0.03 (1)	6.25	I-D	-619/0	0.09 (1)	
C-D	-9/0	-91.8 -91.8 0.45 (1)	10.00	D-E	-21/0	0.01 (1)	
D-E	-9/0	-91.8 -91.8 0.45 (1)	10.00	E-N	-207/0	0.03 (1)	
E-N	-61/0	-91.8 -91.8 0.03 (1)	6.25	K-L	-126/0	0.00 (1)	
N-F	-28/8	-91.8 -91.8 0.02 (1)	6.25	M-N	-126/0	0.00 (1)	
F-G	0/14	-91.8 -91.8 0.02 (1)	10.00				
B-K	0/43	-18.5 -18.5 0.04 (1)	10.00				
K-J	0/43	-18.5 -18.5 0.08 (4)	10.00				
J-I	0/29	-18.5 -18.5 0.11 (4)	10.00				
I-H	0/29	-18.5 -18.5 0.11 (4)	10.00				
H-M	0/43	-18.5 -18.5 0.08 (4)	10.00				
M-F	0/43	-18.5 -18.5 0.04 (1)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.45/1.00 (C-D:1), BC=0.11/1.00 (I-J:4), WB=0.09/1.00 (D-I:1), SS=0.24/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

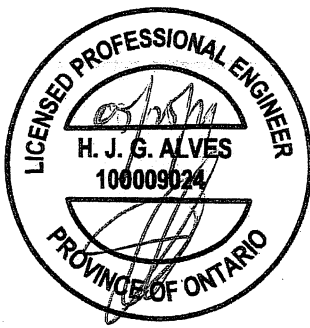
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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= 0.31 (D) (INPUT = 0.90)
JSI METAL= 0.13 (D) (INPUT = 1.00)

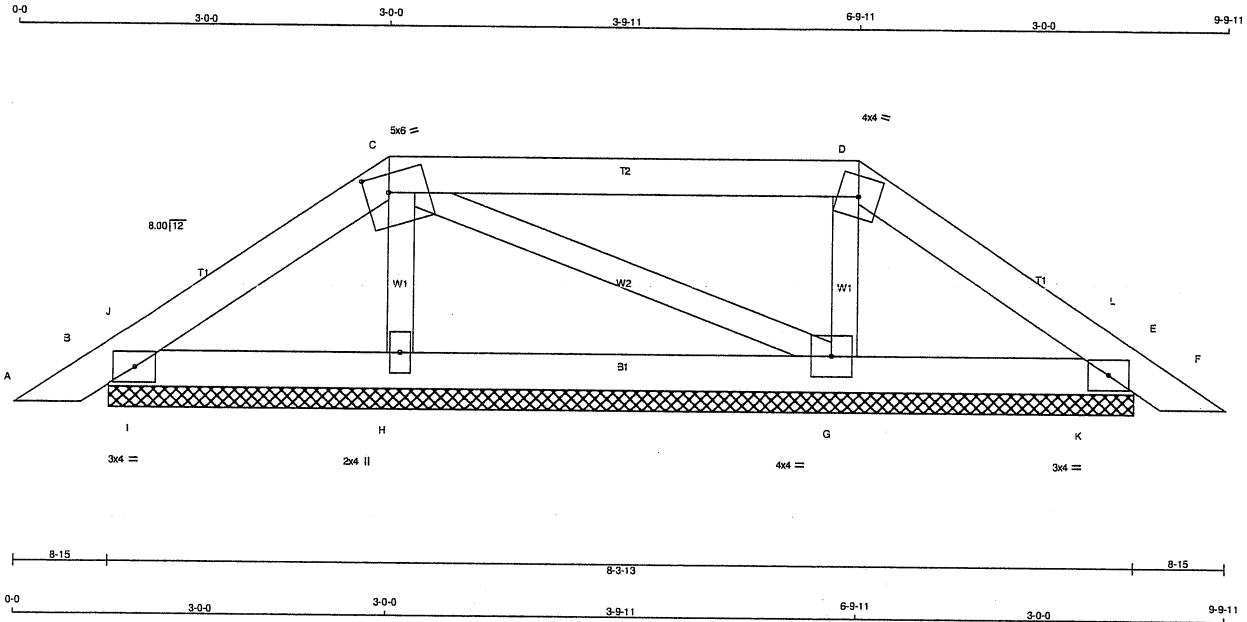


Structural component only
DWG# T-2115545

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
411094	PB30	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0			
C	TTWW-m	MT20	5.0	6.0	1.75	2.25	
D	TTW-m	MT20	4.0	4.0			
E	TMB1-I	MT20	3.0	4.0			
G	BMWV1-I	MT20	4.0	4.0			
H	BMW1-w	MT20	2.0	4.0			

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	220	0	220	0	8-3-13	8-3-13
E	209	0	209	0	8-3-13	8-3-13
H	293	0	293	0	8-3-13	8-3-13
G	318	0	318	0	8-3-13	8-3-13

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	153	114 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0
E	146	108 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
H	209	129 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
G	225	143 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 15	-91.8	-91.8 0.03 (1)	10.00	H-C	-212 / 0	0.03 (1)
B-J	-62 / 0	-91.8	-91.8 0.01 (1)	6.25	C-G	-18 / 0	0.00 (1)
J-C	-76 / 0	-91.8	-91.8 0.05 (1)	6.25	G-D	-229 / 0	0.03 (1)
C-D	-31 / 0	-91.8	-91.8 0.23 (1)	6.25	I-J	-126 / 0	0.00 (1)
D-L	-58 / 0	-91.8	-91.8 0.05 (1)	6.25	K-L	-128 / 0	0.00 (1)
L-E	-42 / 0	-91.8	-91.8 0.01 (1)	6.25			
E-F	0 / 15	-91.8	-91.8 0.03 (1)	10.00			
B-I	0 / 61	-18.5	-18.5 0.06 (1)	10.00			
I-H	0 / 61	-18.5	-18.5 0.06 (1)	10.00			
H-G	0 / 47	-18.5	-18.5 0.05 (4)	10.00			
G-K	0 / 46	-18.5	-18.5 0.06 (1)	10.00			
K-E	0 / 46	-18.5	-18.5 0.06 (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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

CSI: TC=0.23/1.00 (C-D:1), BC=0.06/1.00 (H-I:1), WB=0.03/1.00 (D-G:1), SSI=0.14/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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= 0.04 (H) (INPUT = 1.00)



Structural component only
DWG# T-2115581

Tamarack Roof Truss, Burlington



TOTAL WEIGHT = $13 \times 17 = 218 \text{ lb}$

DRY: SEASONED LUMBER

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQRD
JT	GROSS REACTION		GROSS REACTION		BRG	BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	
E	525	0	525	0	0	5-8	5-8
C	202	0	202	0	0	1-8	1-8
D	45	0	50	0	0	1-8	1-8

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

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	369	257 / 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

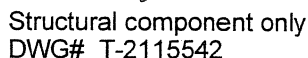
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

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.

TOTAL LOAD CASES: (4)

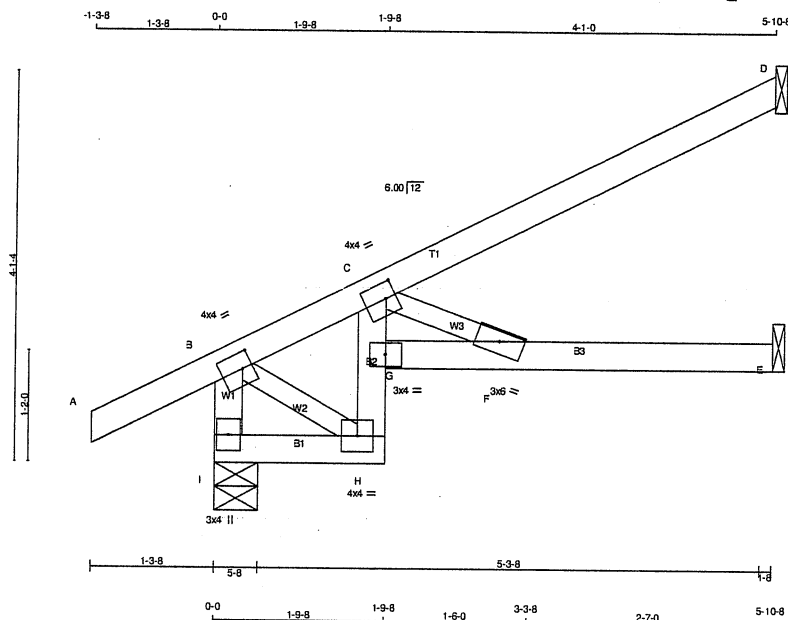
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
E-B	-461 / 0	0.0	0.0	0.13 (4)			
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00		
B-C	-30 / 0	-91.8	-91.8	0.54 (1)	6.25		
E-D	0 / 0	-18.5	-18.5	0.13 (4)	10.00		



JOB NAME 411090	TRUSS NAME J1S	QUANTITY 10	PLY 1	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 13:01:32 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-mM4nvOhkd054fkKbAjLPdqy6wtXoCIRCuzE?1MzCz8H



Scale = 1/20

TOTAL WEIGHT = 10 X 21 = 208 lb

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	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	4.0	4.0	2.00 1.25
C	TMVW-t	MT20	4.0	4.0	2.00 1.25
F	BMW+w	MT20	3.0	6.0	
G	BMVH	MT20	3.0	4.0	
H	BMVW-t	MT20	4.0	4.0	
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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
I	463	0	463	0	0	5-8
D	196	0	196	0	0	1-8
E	113	0	113	0	0	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	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					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	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				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF 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)
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.

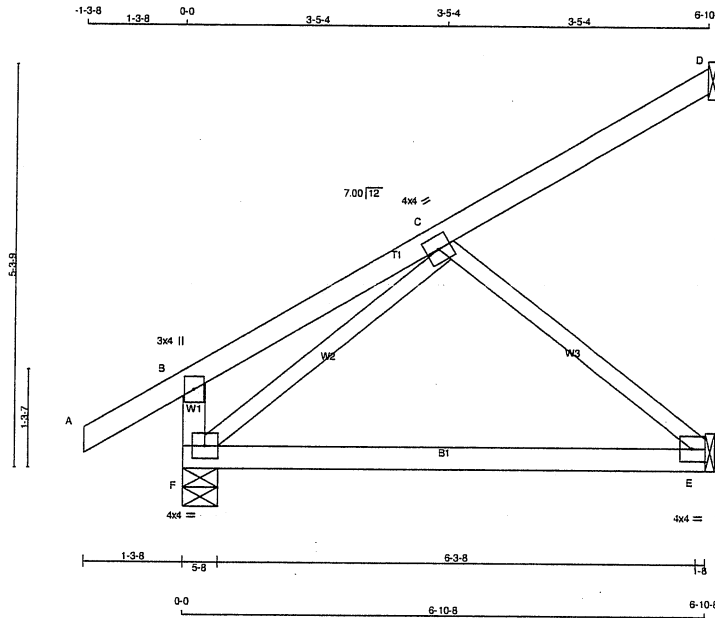
JSI GRIP= 0.40 (C) (INPUT = 0.90)
JSI METAL= 0.16 (G) (INPUT = 1.00)



Structural component only
DWG# T-2115543

JOB NAME 411090	TRUSS NAME J2	QUANTITY 7	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Tue May 25 13:01:33 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-EZe97kiMOKDxGtvokQse92VJHvPxCCM7d_YZozCz8G



TOTAL WEIGHT = 7 X 27 = 186 lb
[M/F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	MT20	4.0	4.0	
E	BMV1-t	MT20	4.0	4.0	2.00 Edge
F	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	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	501	0	501	0	5-8	5-8
D	126	0	126	0	1-8	1-8
E	255	0	255	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND			
F	352	244 / 0	0 / 0	0 / 0	0 / 0		108 / 0	0 / 0
D	86	70 / 0	0 / 0	0 / 0	0 / 0		16 / 0	0 / 0
E	183	107 / 0	0 / 0	0 / 0	0 / 0		75 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. UNBRACED LENGTH	FR-TO	WEBS MAX. FACTORED FORCE (LBS)	
	FR-TO	FROM	TO	FROM			FR-TO	FROM
F-B	-239 / 0	0.0	0.0	0.02 (1)	7.81	C-E	-298 / 0	0.11 (1)
A-B	0 / 32	-91.8	-91.8	0.12 (1)	10.00	F-C	-302 / 0	0.10 (1)
B-C	0 / 20	-91.8	-91.8	0.18 (1)	10.00			
C-D	-19 / 0	-91.8	-91.8	0.14 (1)	6.25			
F-E	0 / 228	-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.(TL) = L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/850 (0.10")

CSI: TC=0.18/1.00 (B-C:1), BC=0.26/1.00 (E-F:4),
WB=0.11/1.00 (C-E:1), SSI=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (C) (INPUT = 0.90)
JSI METAL= 0.08 (E) (INPUT = 1.00)

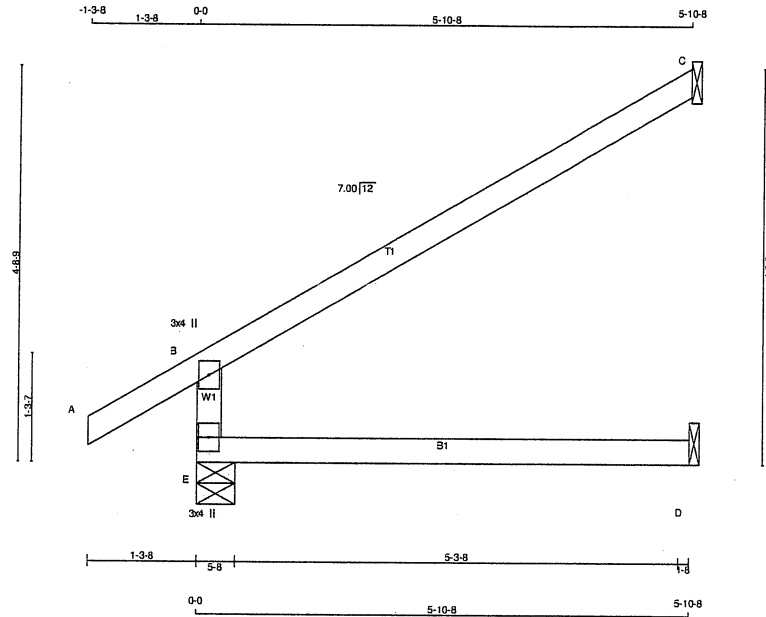


Structural component only
DWG# T-2115544

JOB NAME 411092	TRUSS NAME J20	QUANTITY 6	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Tue May 25 14:35:04 2021 Page 1
ID:SljiNvppp5g6zUZNCvVzo_yzRbu-S0ALIKcx_J8owAMAxL1S3HO6i6zA5uyFN5gy_4zCymb



TOTAL WEIGHT = 6 X 17 = 104 lb
(M)

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

DRY: SEASONED LUMBER.

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
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 MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
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)

CHORDS					WEBS				
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (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 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) = $L/360$ (0.20")
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), SSI=0.23/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

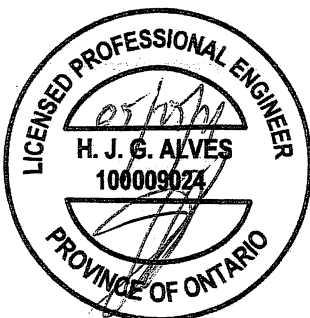
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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= 0.14 (B) (INPUT = 1.00)

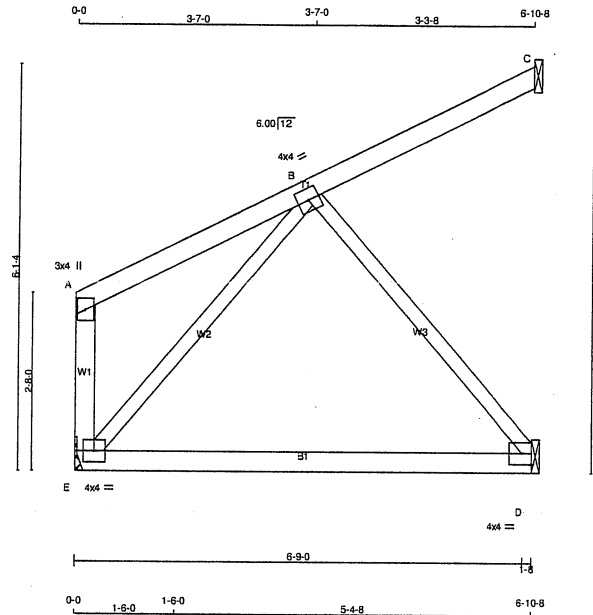


Structural component only
DWG# T-2115567

JOB NAME 411094	TRUSS NAME J30	QUANTITY 9	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue May 25 14:54:25 2021 Page 1
ID:GAonzd6DLBrd2xE89xtNtRz_BuP-yNqFPKfBa1Q3jbcJgMid7_ci7BndzQ8LDQuEHxCxUS



TOTAL WEIGHT = 9 X 27 = 247 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
E - A	2x4	DRY	No.2
A - C	2x4	DRY	No.2
E - 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
A	TMV+p	MT20	3.0	4.0	
B	TMWw-t	MT20	4.0	4.0	
D	BMW1-t	MT20	4.0	4.0	Edge
E	BMW1-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	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
E	376	0	376	0	MECHANICAL	
C	117	0	117	0	1-8	1-8
D	263	0	263	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) C, D

UNFACTORED REACTIONS

JT	MAX./MIN. COMPONENT REACTIONS					
	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD
E	266	175 / 0	0 / 0	0 / 0	0 / 0	91 / 0
C	80	65 / 0	0 / 0	0 / 0	0 / 0	15 / 0
D	188	112 / 0	0 / 0	0 / 0	0 / 0	77 / 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			MAX. UNBRAC	MEMB.	MAX. FACTORED		
		VERT. LOAD (PLF)	LC1 (LC)	MAX CSI (LC)			FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		FR-TO				
E-A	-122 / 0	0.0	0.0	0.02 (1)	E-B	-251 / 0		0.12 (1)	
A-B	0 / 17	-91.8	-91.8	0.18 (1)	B-D	-258 / 0		0.13 (1)	
B-C	-17 / 0	-91.8	-91.8	0.14 (1)					
E-D	0 / 162	-18.5	-18.5	0.26 (4)					

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/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. (TL) = L/360 (0.23")
CALCULATED VERT. DEFL. (TL) = L/844 (0.10")

CSI: TC=0.18/1.00 (A-B:1), BC=0.26/1.00 (D-E:4), WB=0.13/1.00 (B-D:1), SSI=0.14/1.00 (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	MIN	MIN
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (E) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2115580



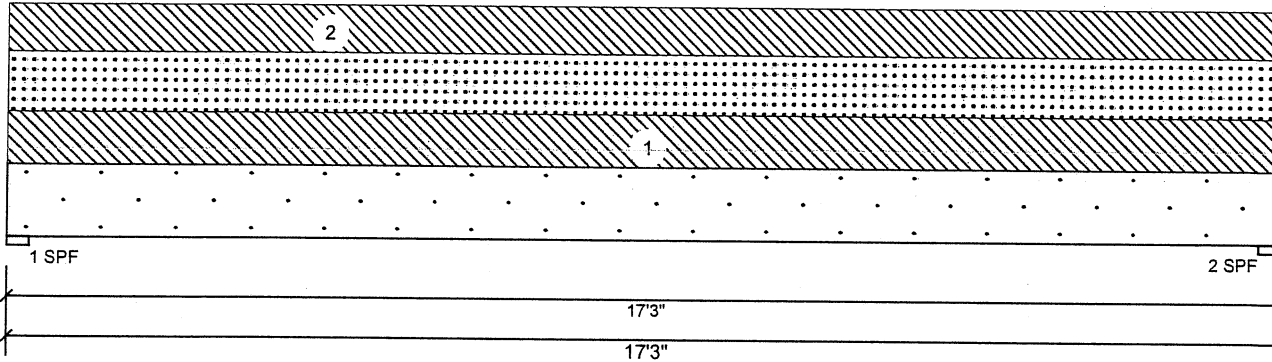
Client:
Project:
Address:

Date: 2021-05-25
Input by:
Job Name: 411094
Project #:

Page 1 of 2

B1 West Fraser 2.0 LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

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

Unfactored Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	0	1223	1104	0
2	Vertical	0	1223	1104	0

Bearings and Factored Reactions

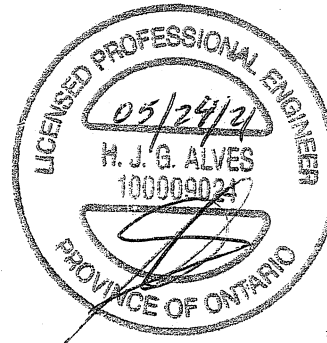
Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	43%	1529 / 1656	3185	L	1.25D+1.5S
2 - SPF	3.500"	Vert	43%	1529 / 1656	3185	L	1.25D+1.5S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13016 ft-lb	8'7 1/2"	34678 ft-lb	0.375 (38%)	1.25D+1.5S	L
Unbraced	13016 ft-lb	8'7 1/2"	21410 ft-lb	0.608 (61%)	1.25D+1.5S	L
Shear	2727 lb	15'11 5/8"	13539 lb	0.201 (20%)	1.25D+1.5S	L
LL Defl inch	0.247 (L/816)	8'7 9/16"	0.560 (L/360)	0.441 (44%)	S	L
TL Defl inch	0.520 (L/387)	8'7 9/16"	0.560 (L/360)	0.930 (93%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on full section width.



DWG NO. TAM T-2115606
STRUCTURAL
COMPONENT ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		5-0-0	Top	22 PSF	0 PSF	25.6 PSF	0 PSF	
2	Uniform			Top	20 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF				

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

West Fraser
(250) 991-5350
www.westfraser.com
CCMC: 12904-R

Tamarack roof trusses
3269 North Service rd,
Ontario



This design is valid until 2024-04-07



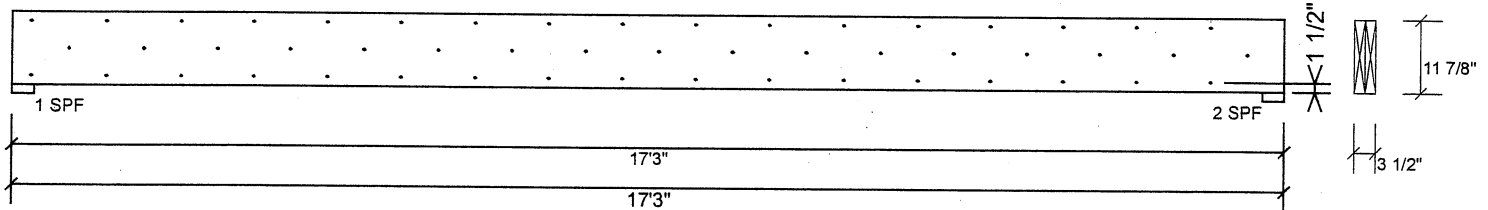
Client:
Project:
Address:

Date: 2021-05-25
Input by:
Job Name: 411094
Project #:

Page 2 of 2

B1 West Fraser 2.0 LVL 1.750" X 11.875" 2-Ply - PASSED

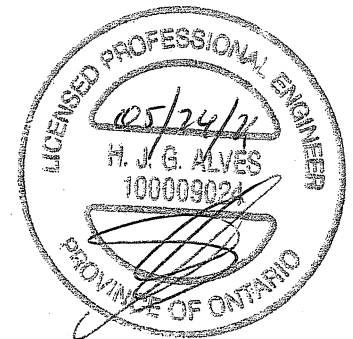
Level: Level



Multi-Ply Analysis

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

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	383.1 PLF
Yield Limit per Fastener	127.7 lb.
Yield Mode	g
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00



DWG NO. TAM 2115606
STRUCTURAL
COMPONENT ONLY 2/2

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

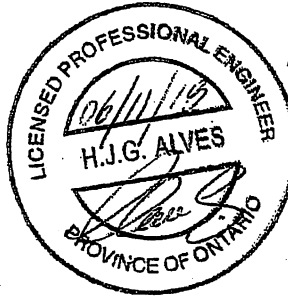
Manufacturer Info

West Fraser
(250) 991-5350
www.westfraser.com
CCMC: 12904-R

Tamarack roof trusses
3269 North Service rd,
Ontario



This design is valid until 2024-04-07



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 *em and General Safety notes.

T-1900218

Feb 09, 2018

TOE-NAIL CAPACITY DETAILS

LATERAL AND WITHDRAWAL RESISTANCE OF BEARING ANCHORAGE BY TOE-NAILS

			SPF	D. FIR	SPF	D. FIR
COMMON WIRE	3.00	0.144	122	139	30	42
	3.25	0.144	127	144	32	45
	3.50	0.160	152	173	38	52
COMMON SPIRAL	3.00	0.122	96	108	26	36
	3.25	0.122	97	108	28	40
	3.50	0.152	142	161	36	50
3.25" Gun nail	3.25	0.120	94	105	28	39

Note: If using truss with D. Fir lumber and SPF bearing plate, use tabulated SPF values in table.

Nail type:	Common wire	Common spiral	Common wire	Common spiral	Gun Nail
Diameter (in.)	0.160	0.152	0.144	0.122	0.120
Length (in.)	3.50	3.50	3.00	3.00	3.25
MINIMUM NUMBER OF TOE NAILS					
2x4 SPF	2	2	3	3	3
2x6 SPF	4	4	4	5	5
2x4 D. FIR	2	2	2	2	2
2x6 D. FIR	3	3	3	4	4

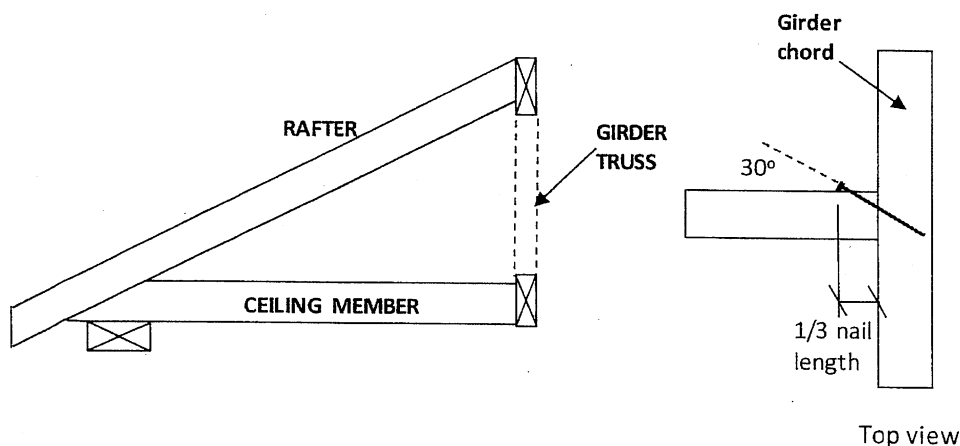


Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss

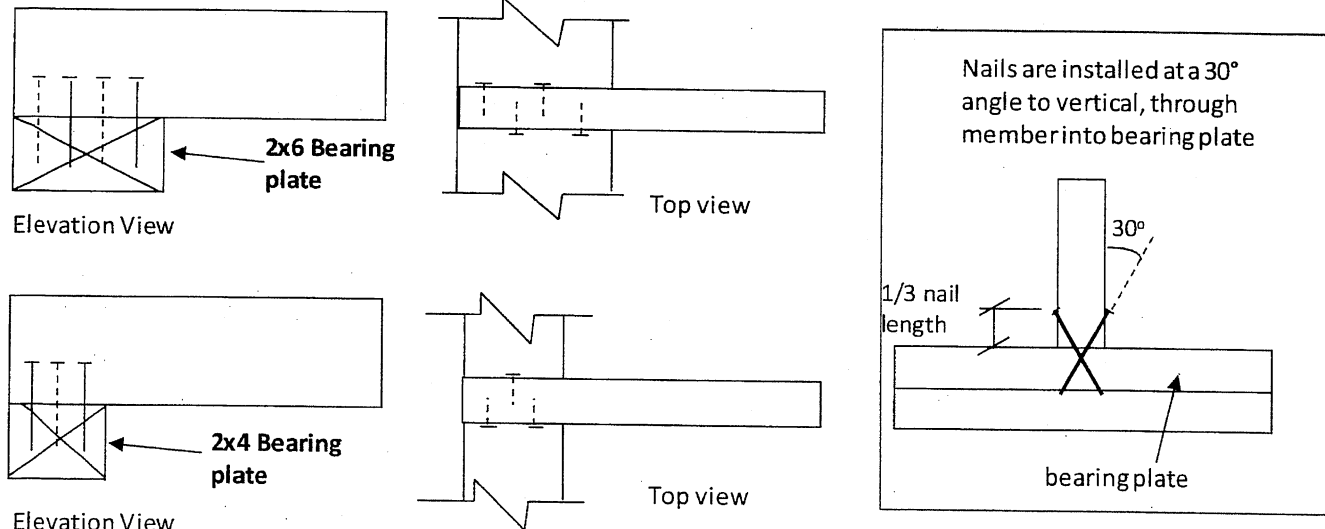
PEO
Certificate No. 10889485



December 21, 2020

TOE-NAIL CAPACITY DETAILS

Figure 2: Toe-Nail Anchorage to Bearing Plate for Uplift



NOTES:

1. Rafter and ceiling members may be connected to top and bottom chords of girder truss by toe-nailing the members into the girder chords (see fig. 1), provided the factored vertical reactions of the supported members do not exceed the lateral resistance of the toe-nails. Mechanical connectors (hangers) are required if factored vertical reactions exceed the toe-nail capacity, or if the connection must resist horizontal loads (loads perpendicular to the face of girder or rafter).
2. Trusses, rafters or ceiling members may be anchored to the bearing plate with toe-nails (see fig. 2), provided that the factored uplift reactions due to **wind or earthquake loads** do not exceed the **withdrawal resistance of the toe-nails**. Mechanical anchors (tie-downs) are required for reactions that exceed the toe-nail withdrawal capacity. Toe-nail anchorage to bearing plates is **NOT** permitted if uplift reactions are generated from gravity loads (snow, floor live, dead).
3. Tabulated toe-nail resistances on page 1 are for **one** toe-nail. Multiply unit values by the number of nails used in the connection. Maximum number of nails in a connection shall not exceed the tabulated limits shown on page 1 for a given lumber size /species.
4. Nail values are based on specific gravity of $G = 0.42$ (SPF) and $G = 0.49$ (D. Fir).
5. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member.
6. For wind / earthquake loads, tabulated lateral resistances may be multiplied by 1.15 (K_D factor). No increases are permitted for tabulated withdrawal resistances.
7. Lumber must be dry ($< 19\%$ moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-19, Clause 12.9.

PEO
Certificate No. 10889485



LUL/LUS/LJS/HUS/HHUS/HGUS

Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of
a) easier installation, b) higher capacities, c) lower installed
cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 217–218.

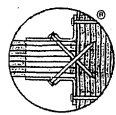
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 18–20.

Installation:

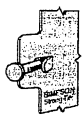
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1 1/2" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

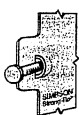
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on pp. 105–107.



Double-Shear
Nailing
Top View

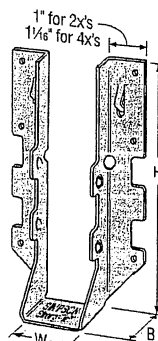
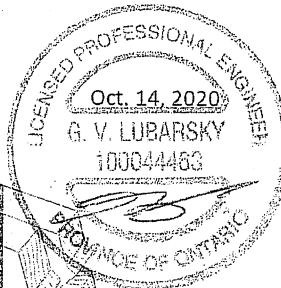
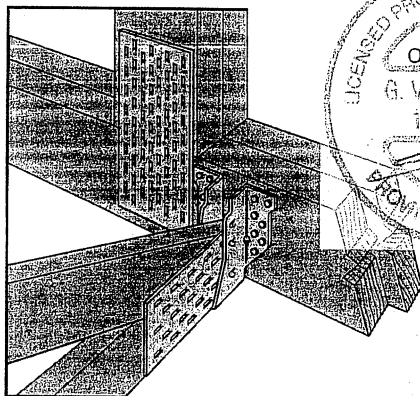


Double-Shear
Nailing
Side View;
Do not
bend tab

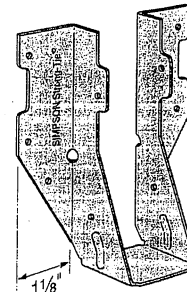


Dome Double-Shear
Nailing
Side View
(available on
some models)

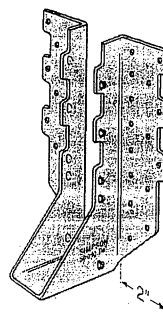
Typical HUS26
Installation
with Reduced
Heel Height
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



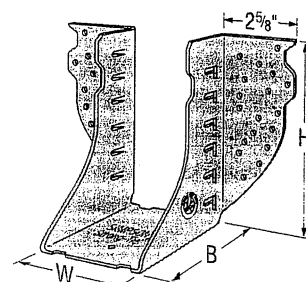
✓ LUS28



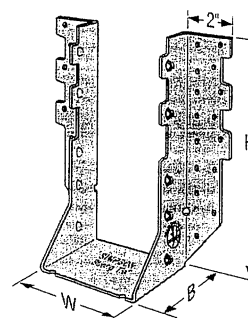
LU26L



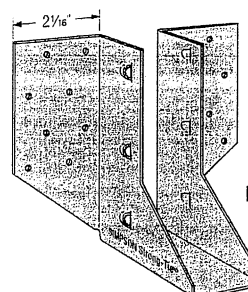
✓ HUS210
(HUS26, HUS28,
and HHUS similar)



✓ HGUS28-2



✓ HHUS210-2



LJS26DS

TECHNICAL BULLETIN

LUS - Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: 18 gauge

Finish: G90 galvanized

Design:

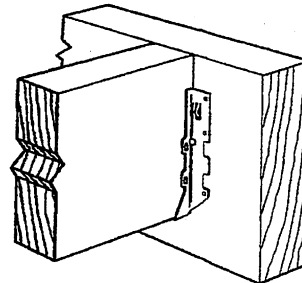
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

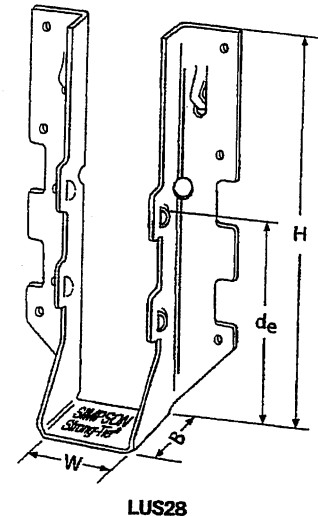
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire,
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

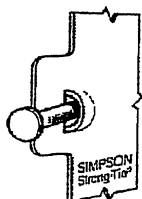


Typical LUS
Installation



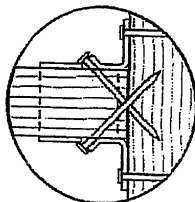
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
LUS24	18	1 1/8	3 1/4	1 3/4	1 7/8	(4) 10d	(2) 10d	(K _p =1.15)	(K _p =1.00)	(K _p =1.15)	(K _p =1.00)
LUS24-2	18	3 1/8	3 1/4	2	1 13/16	(4) 16d	(2) 16d	710	1630	645	1155
LUS26	18	1 1/8	4 3/4	1 3/4	3 5/8	(4) 10d	(4) 10d	835	2020	590	1435
LUS26-2	18	3 1/8	4 3/4	2	4	(4) 16d	(4) 16d	1420	2170	1290	1630
LUS26-3	18	4 3/8	4 3/4	2	3 1/4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS28	18	1 1/8	6 5/8	1 3/4	3 3/4	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3 3/8	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4 3/8	6 1/4	2	3 1/4	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1 1/8	7 13/16	1 3/4	3 7/8	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4 3/8	8 3/8	2	5 1/4	(8) 16d	(6) 16d	2580	3345	2320	2375

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

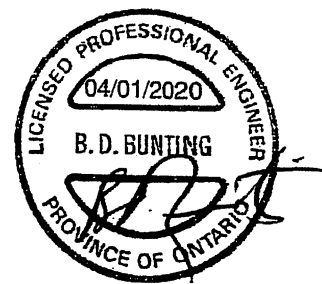


Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models).

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.

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T-SPEC LUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

TECHNICAL BULLETIN

HUS/LJS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: See table

Finish: G90 galvanized

Design:

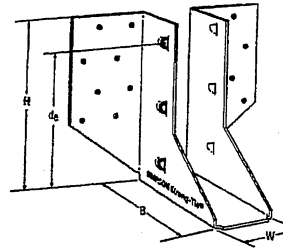
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

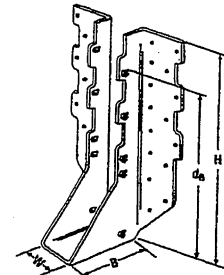
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

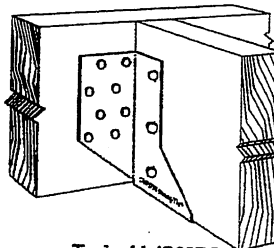
- See current catalogue for options



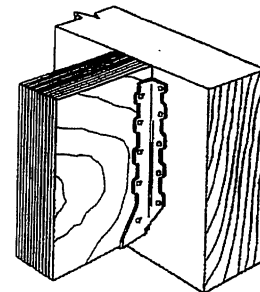
LJS26DS



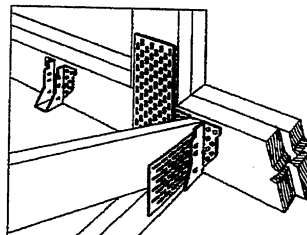
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



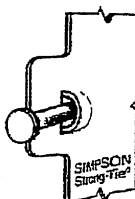
Typical HUS
Installation



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

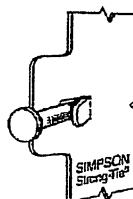
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _u =1.15) lb.	Normal (K _u =1.00) lb.	Uplift (K _u =1.15) lb.	Normal (K _u =1.00) lb.
LJS26DS	18	1 1/16	5	3 1/2	4 5/8	(16) 16d	(6) 16d	2055	4265	1460	4115
HUS26	16	1 1/8	5 1/4	3	3 15/16	(14) 16d	(6) 16d	2705	4940	2065	3875
HUS28	16	1 1/8	7 1/2	3	6 1/2	(22) 16d	(8) 16d	3605	5365	2675	4345
HUS210	16	1 1/8	9 1/2	3	7 3/4	(30) 16d	(10) 16d	4505	5795	4010	4740
HUS1.81/10	16	1 13/16	9	3	8	(30) 16d	(10) 16d	4505	6450	4010	5200

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

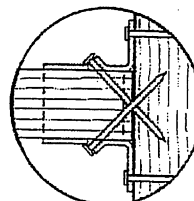


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

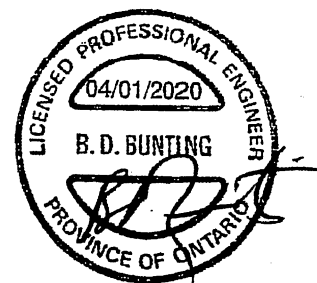
U.S. Patent
5,603,580



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



Double Shear Nailing Top View.



**LIMIT
STATES
DESIGN**

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TECHNICAL BULLETIN

HGUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: 12 gauge

Finish: G90 galvanized

Design:

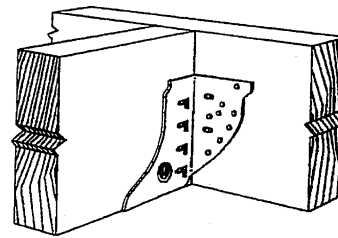
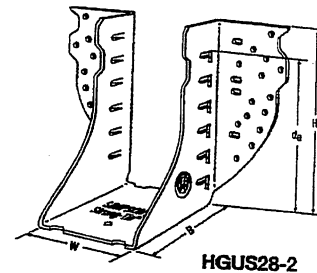
- Factored resistances are in accordance with CSA Q86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

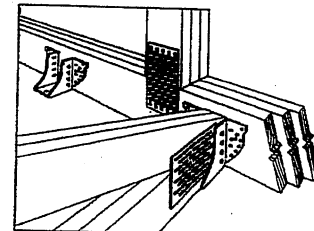
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

- See current catalogue for options



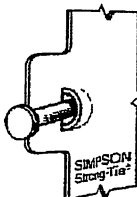
Typical HGUS Installation



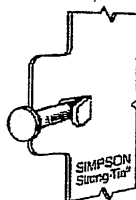
Typical HGUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _o ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
HGUS26	12	1½	5¾	5	4¾	(20) 16d	(8) 16d	2685	6625	2685	5700
HGUS26-2	12	3½	5¾	4	4¾	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-3	12	4½	5½	4	4¾	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS26-4	12	6½	5¾	4	4¾	(20) 16d	(8) 16d	4385	8950	3100	6355
HGUS28	12	1½	7¾	5	6¾	(36) 16d	(12) 16d	3310	7675	3100	6900
HGUS28-2	12	3½	7¾	4	6¾	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-3	12	4½	7¾	4	6¾	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS28-4	12	6½	7¾	4	6¾	(36) 16d	(12) 16d	6070	12980	4310	9215
HGUS210	12	1½	9¾	5	7¾	(46) 16d	(16) 16d	3535	11070	2510	8090
HGUS210-2	12	3½	9¾	4	8¾	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS210-3	12	4½	9¾	4	8¾	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS210-4	12	6½	9¾	4	8¾	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6½	10¾	4	10¾	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6½	12¾	4	11¾	(66) 16d	(22) 16d	10130	16400	7195	11645

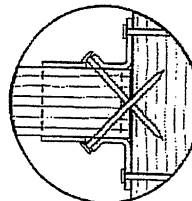
1. d_o is the distance from the seat of the hanger to the highest joist nail.



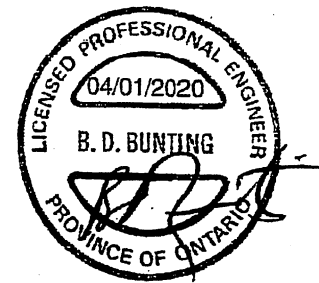
Dome Double Shear Nailing prevents tabs breaking off (available on some models).
U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



LIMIT STATES DESIGN

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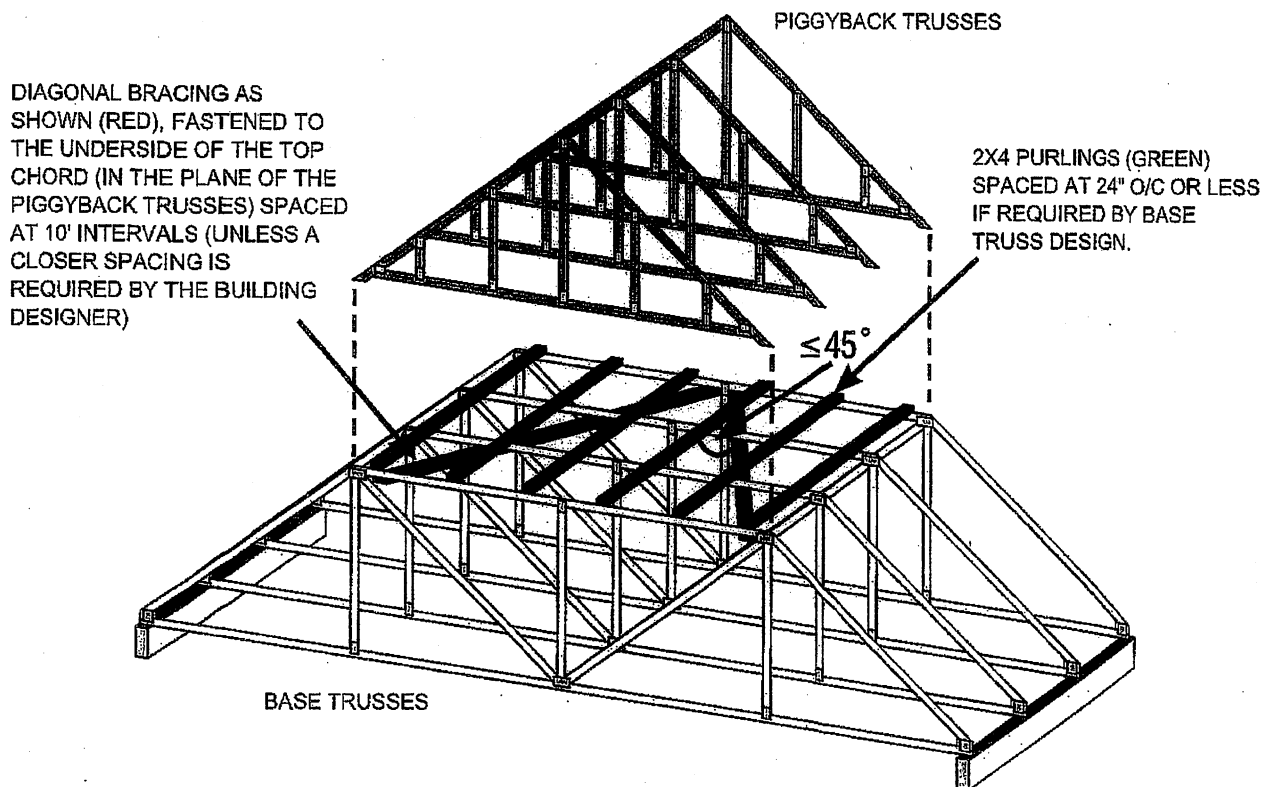
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strongtie.com

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:



SKETCH FROM BCSI-CANADA 2013

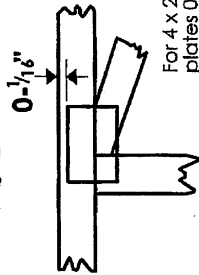
Disclaimer:

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

Symbols

PLATE LOCATION AND ORIENTATION

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



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



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

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

PLATE SIZE

4 x 4

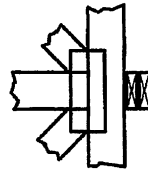
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



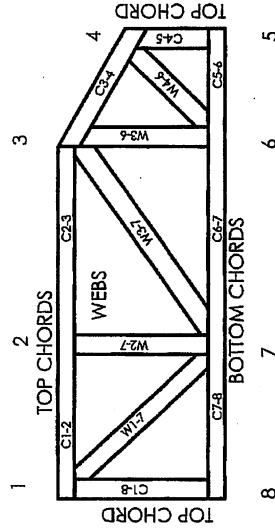
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

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

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MiTek

POWER TO PERFORM.™

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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