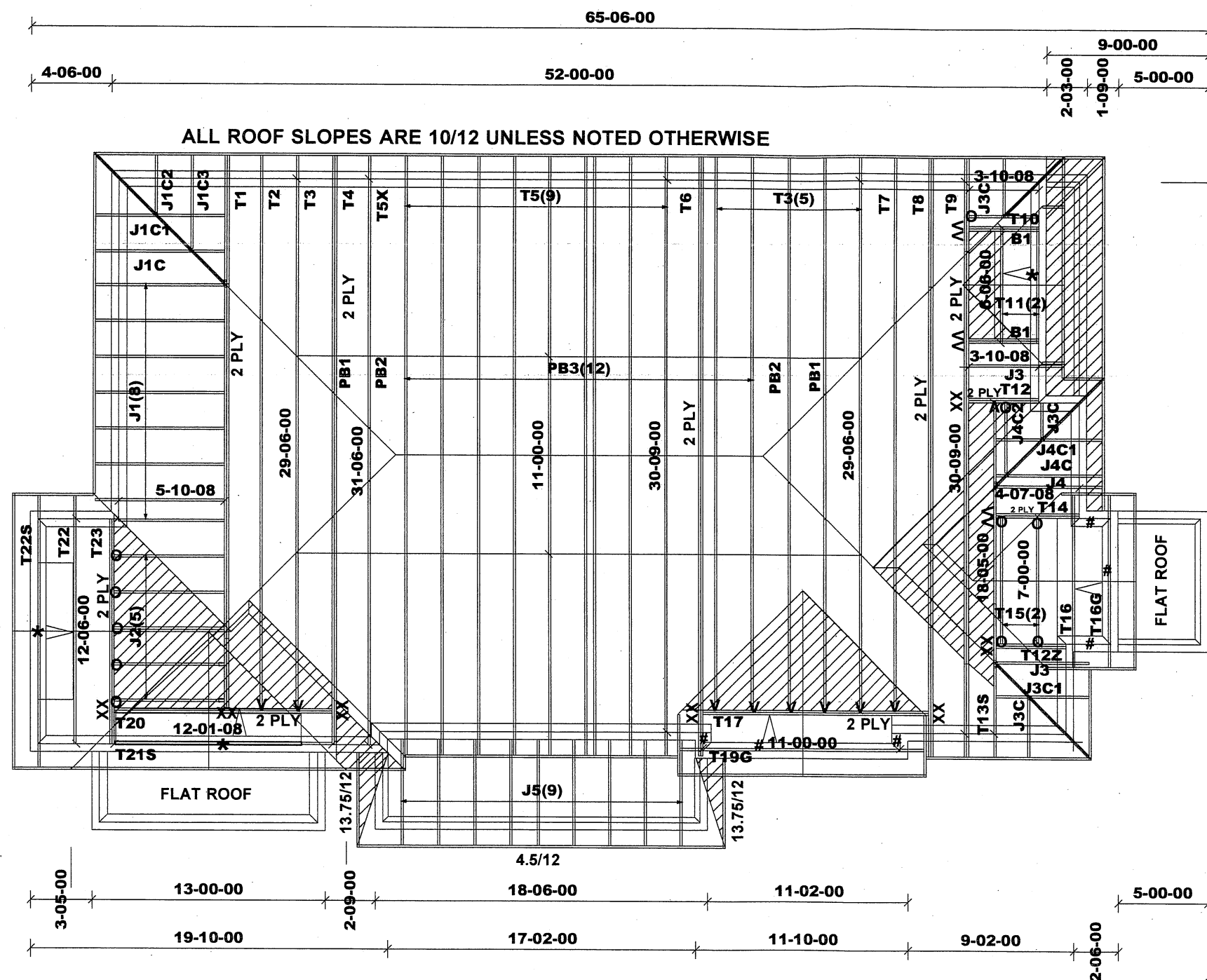




ASPHALT SHINGLES
FINISHED OVERHANG: 12"
2x6 EXTERIOR WALLS
2x6 FASCIA BOARD
HEEL: R.T.M.C.

DESIGN CONFORMS WITH OBC 2012
OCCUPANCY: RESIDENTIAL | PART: 9
(2019 AMENDMENT)
Ss = 27.2 psf | Sr = 8.4 psf

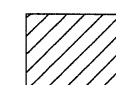
DESIGN LOADS:
TCSL = 23.3 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

HARDWARE:
LUS24 - (O)
LUS26-2 - (VV)
LJS26DS - (V)
HGUS26-2 - (XX)

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

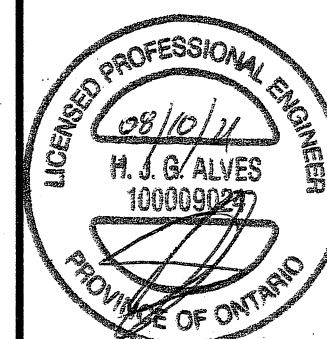
DENOTES:

*: 12" RAISED CEILING
#: 24" RAISED CEILING



DENOTES:
CONVENTIONAL
FRAMING

All conventional framing to conform with Part 9 of O.B.C. 2012. 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'.



DWG NO. TAM T-2127217
STRUCTURAL
COMPONENT ONLY

TRUSS PLACEMENT PLAN.

This is a truss placement plan only, NOT a final roof framing plan. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss drawings for each component identified on this placement plan.

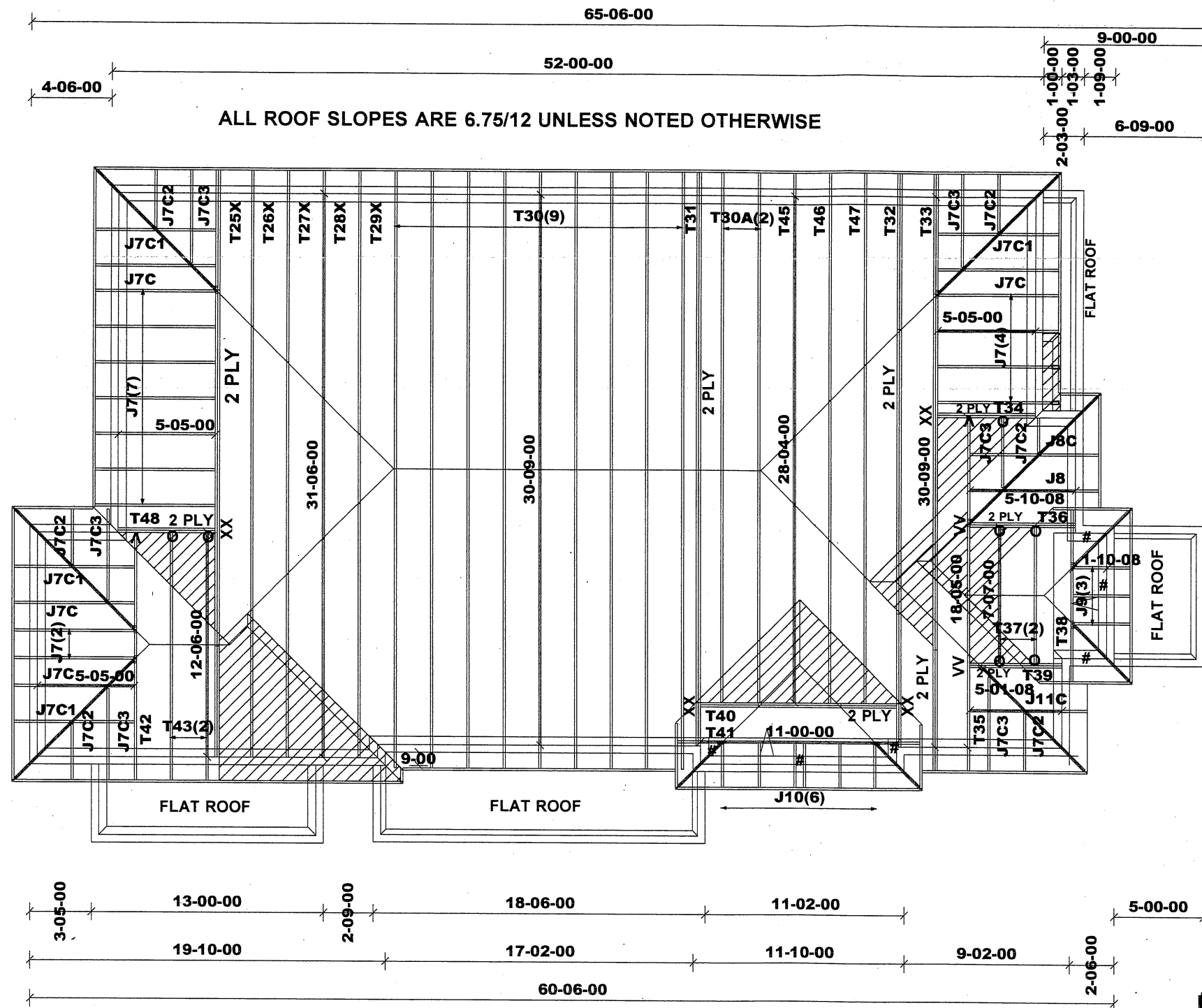
Please verify that all dimensions match the dimensions found on the job. The Building designer is responsible for the temporary/permanent bracing of the roof and floor system and its integration into the bracing of the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer unless otherwise noted in this plan. Building designer to review and approve this plan to ascertain conformity to his overall structural plan.

DWG# T-2126278 to T-2126320, T1800218



Job Track: **52430**
Layout ID: **420230**
Plan Log: **204996**
Builder / Location: **ROYAL PINE HOMES / BRAMPTON**
Project: **VALES OF CASTLEMORE NORTH**
Date: 2021-08-05
Designer: **ND**

Model / Elevation: **MODEL 40-4 (CORNER) / A STD (4 OR 5 BED)**
Mitek ver 8.4.2.286
THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.



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

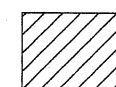
DESIGN CONFORMS WITH OBC 2012
OCCUPANCY: RESIDENTIAL | PART: 9
(2019 AMENDMENT)
Ss = 27.2 psf | Sr = 8.4 psf

DESIGN LOADS:
TCSL = 23.3 psf
TCDL = 6.0 psf
BCLL = 0.0 psf
BCDL = 7.4 psf

HARDWARE:
LUS24 - (O)
LUS26-2 - (VV)
LJS26DS - (V)
HGUS26-2 - (XX)

DENOTES:

#: 18" RAISED CEILING



DENOTES:
CONVENTIONAL
FRAMING

All conventional framing to conform with Part 9 of O.B.C. 2012. 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'.



DWG NO. TAM T-2127219
STRUCTURAL
COMPONENT ONLY

TRUSS PLACEMENT PLAN.

This is a truss placement plan only, NOT a final roof framing plan. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss drawings for each component identified on this placement plan.

Please verify that all dimensions match the dimensions found on the job. The Building designer is responsible for the temporary/permanent bracing of the roof and floor system and its integration into the bracing of the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer unless otherwise noted in this plan. Building designer to review and approve this plan to ascertain conformity to his overall structural plan.

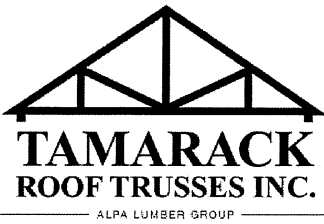
DWG# T-2126329 to T-2126362, T1800218



Job Track:	52430	Builder / Location:	ROYAL PINE HOMES / BRAMPTON
Layout ID:	420307	Project:	VALES OF CASTLEMORE NORTH
Plan Log:	204996	Date: 2021-08-05	Designer: ND

Model / Elevation: MODEL 40-4 (CORNER)/B STD (4 OR 5 BED)
Mitek ver 8.4.2.288
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.

DELIVERY SHIPLIST



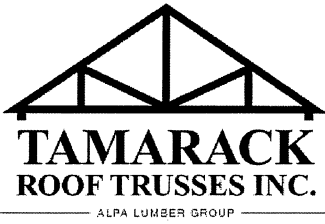
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A STD (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420230
 Ref #
 Page: 1 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	29-06-00	6-06-07	2 x 4 2 x 6	1-03-08	1-07-11 3-03-11	311.01 191.00		
	1	T2 Hip	10 / 12	29-06-00	8-02-07	2 x 4	1-03-08	1-07-11 2-08-03	142.08 88.00		
	6	T3 Hip	10 / 12	29-06-00	9-10-07	2 x 4	1-03-08	1-07-11 2-08-03	925.98 584.00		
	1 2-ply	T4 Piggyback Base Girder	10 / 12	31-06-00	9-10-13	2 x 6	1-03-08	1-07-11 1-00-03	413.16 254.33		
	9	T5 Piggyback Base	10 / 12	30-09-00	9-10-07	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	1430.38 894.00		
	1	T5X Piggyback Base	10 / 12	31-06-00	9-10-07	2 x 4	1-03-08	1-07-11 1-00-03	158.78 99.83		
	1 2-ply	T6 Piggyback Base Girder	10 / 12	30-09-00	9-10-07	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	370.82 236.67		
	1	T7 Hip	10 / 12	29-06-00	8-02-07	2 x 4	1-03-08	1-07-11 2-08-03	142.08 88.00		
	1 2-ply	T8 Hip Girder	10 / 12	30-09-00	6-06-07	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	331.3 208.00		
	1 2-ply	T9 Hip Girder	10 / 12	30-09-00	4-10-07	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	313.41 199.33		
	1	T10 Half Hip Girder	10 / 12	3-10-08	3-02-07	2 x 4		1-07-11 3-02-07	20.35 13.83		
	2	T11 Common	10 / 12	6-06-00	4-01-11	2 x 4		1-05-03 1-05-03	55.32 40.00		
	1 2-ply	T12 Monopitch Girder	10 / 12	3-10-08	4-10-07	2 x 4 2 x 6		1-07-11 4-10-07	53.09 36.33		
	1 2-ply	T12Z Jack-Closed Girder	10 / 12	3-10-08	4-10-07	2 x 4 2 x 6		1-07-11 4-10-07	51.13 35.33		

DELIVERY SHIPLIST



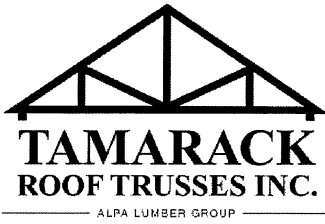
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A STD (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420230
 Ref #
 Page: 2 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	T13S Roof Special Girder	10 / 12	18-05-00	5-05-15	2 x 4 2 x 6	1-03-08	1-07-11 1-07-11	105.71 69.33		
	1 2-ply	T14 Jack-Closed Girder	10 / 12	4-07-08	5-05-15	2 x 4 2 x 6		1-07-11 5-05-15	50.66 33.67		
	2	T15 Common	10 / 12	7-00-00	6-06-11	2 x 4		3-07-11 3-07-11	76.65 49.33		
	1	T16 Common	10 / 12	7-00-00	4-06-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	34.12 22.67		
	1	T16G GABLE	10 / 12	7-00-00	4-06-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	35.12 23.67		
	1 2-ply	T17 Common Girder	10 / 12	12-06-08	8-02-11	2 x 4 2 x 6		3-07-11 2-04-04	181.51 114.67		
	1	T19G GABLE	10 / 12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	53.45 35.33		
	1 2-ply	T20 Common Girder	10 / 12	12-01-08	6-10-03	2 x 6 2 x 8		2-05-11 1-01-07	174.22 109.33		
	1	T21S GABLE	10 / 12	12-01-08	6-10-03	2 x 4		1-05-11 1-01-07	50.75 34.00		
	1	T22 Common	10 / 12	12-06-00	6-10-03	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	60.1 39.50		
	1	T22S Roof Special	10 / 12	12-06-00	6-10-03	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	65.83 46.00		
	1 2-ply	T23 Common Girder	10 / 12	12-06-00	6-10-03	2 x 4 2 x 6		1-07-11 1-07-11	146.29 96.00		
	2	PB1 Piggyback	10 / 12	11-00-00	1-08-00	2 x 4			65.49 41.67		
	2	PB2 Piggyback	10 / 12	11-00-00	3-04-00	2 x 4			67.27 43.33		

DELIVERY SHIPLIST



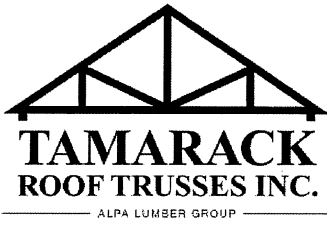
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A STD (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420230
 Ref #
 Page: 3 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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
	12	PB3 Piggyback	10 / 12	11-00-00	4-07-00	2 x 4			365.68 232.00		
	8	J1 Jack-Open	10 / 12	5-10-08	6-06-07	2 x 4	1-03-08	1-07-11 6-06-07	163.7 104.00		
	1	J1C Jack-Open	10 / 12	3-10-15	4-10-13	2 x 4	1-03-08 1-11-09	1-07-11 4-10-13	17.55 11.67		
	1	J1C1 Jack-Open	10 / 12	1-10-15	3-02-13	2 x 4	1-03-08 3-11-09	1-07-11 3-02-13	14.58 9.67		
	1	J1C2 Jack-Open	10 / 12	1-10-15	3-02-13	2 x 4	1-03-08 1-01	1-07-11 3-02-13	10.4 7.50		
	1	J1C3 Jack-Open	10 / 12	2-00-00	4-10-13	2 x 4	1-03-08 1-10-15	1-07-11 3-03-11	13.37 9.50		
	5	J2 Jack-Open	10 / 12	6-01-08	6-06-07	2 x 4		1-05-03 6-06-07	123.05 85.00		
	2	J3 Jack-Open	10 / 12	3-10-08	4-10-07	2 x 4	1-03-08	1-07-11 4-10-07	30.43 19.33		
	3	J3C Jack-Open	10 / 12	1-10-08	3-02-07	2 x 4	1-03-08	1-07-11 3-02-07	30.36 21.00		
	1	J3C1 Jack-Open	10 / 12	1-10-15	3-02-13	2 x 4	1-03-08 1-11-09	1-07-11 3-02-13	12.3 8.33		
	1	J4 Jack-Open	10 / 12	4-07-08	5-05-15	2 x 4	1-03-08	1-07-11 5-05-15	17.18 11.00		
	1	J4C Jack-Open	10 / 12	3-10-15	4-10-13	2 x 4	1-03-08 8-09	1-07-11 4-10-13	16.12 11.00		
	1	J4C1 Jack-Open	10 / 12	1-10-15	3-02-13	2 x 4	1-03-08 2-08-09	1-07-11 3-02-13	13.15 9.00		
	1	J4C2 Jack-Open	10 / 12	2-00-00	4-10-13	2 x 4	1-10-15	1-07-11 3-03-11	11.21 7.67		

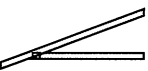
DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A STD (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420230
 Ref #
 Page: 4 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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
	9	J5 Jack-Open	4.5 /12	5-05-00	2-09-15	2 x 4	1-03-08	4-00 2-00-10	130.24 84.00		

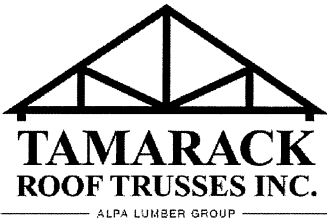
TOTAL # TRUSS= 104 TOTAL BFT OF ALL TRUSSES= 4357.82 BFT. TOTAL WEIGHT OF ALL TRSSES 6855.35 LBS

HARDWARE

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

TOTAL NUMBER OF ITEMS= 30

DELIVERY SHIPLIST



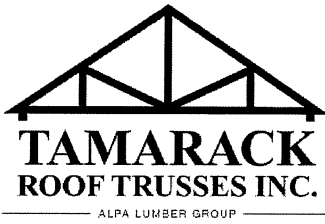
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A OPT. COFF (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420305
 Ref #
 Page: 1 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	29-06-00	6-06-07	2 x 4 2 x 6	1-03-08	1-07-11 3-03-11	339.25 214.33		
	1	T2S Hip	10 / 12	29-06-00	8-02-07	2 x 4	1-03-08	1-07-11 2-08-03	152.23 97.50		
	5	T3 Hip	10 / 12	29-06-00	9-10-07	2 x 4	1-03-08	1-07-11 2-08-03	771.65 486.67		
	1	T3S Hip	10 / 12	29-06-00	9-10-07	2 x 4	1-03-08	1-07-11 2-08-03	169.55 109.17		
	1 2-ply	T4S Piggyback Base Girder	10 / 12	31-06-00	9-10-13	2 x 6	1-03-08	1-07-11 1-00-03	441.19 274.33		
	9	T5 Piggyback Base	10 / 12	30-09-00	9-10-07	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	1430.38 894.00		
	1	T5XS Piggyback Base	10 / 12	31-06-00	9-10-07	2 x 4	1-03-08	1-07-11 1-00-03	172.59 111.17		
	1 2-ply	T6 Piggyback Base Girder	10 / 12	30-09-00	9-10-07	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	370.82 232.67		
	1	T7 Hip	10 / 12	29-06-00	8-02-07	2 x 4	1-03-08	1-07-11 2-08-03	142.08 88.00		
	1 2-ply	T8 Hip Girder	10 / 12	30-09-00	6-06-07	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	327.11 205.33		
	1 2-ply	T9 Hip Girder	10 / 12	30-09-00	4-10-07	2 x 4 2 x 6	1-03-08 1-03-08	1-07-11 1-07-11	308.7 196.67		
	1	T10 Half Hip Girder	10 / 12	3-10-08	3-02-07	2 x 4		1-07-11 3-02-07	20.35 13.83		
	2	T11 Common	10 / 12	6-06-00	4-01-11	2 x 4		1-05-03 1-05-03	55.32 40.00		
	1 2-ply	T12 Monopitch Girder	10 / 12	3-10-08	4-10-07	2 x 4 2 x 6		1-07-11 4-10-07	51.13 35.33		

DELIVERY SHIPLIST



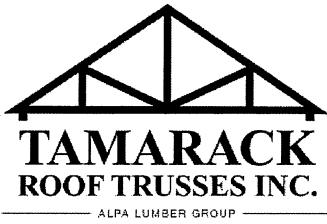
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A OPT. COFF (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420305
 Ref #
 Page: 2 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	T122 Jack-Closed Girder	10 / 12	3-10-08	4-10-07	2 x 4 2 x 6		1-07-11 4-10-07	51.13 35.33		
	1	T13S Roof Special Girder	10 / 12	18-05-00	5-05-15	2 x 4 2 x 6	1-03-08	1-07-11 1-07-11	105.71 69.33		
	1 2-ply	T14 Jack-Closed Girder	10 / 12	4-07-08	5-05-15	2 x 4 2 x 6		1-07-11 5-05-15	50.66 33.67		
	2	T15 Common	10 / 12	7-00-00	6-06-11	2 x 4		3-07-11 3-07-11	76.65 49.33		
	1	T16 Common	10 / 12	7-00-00	4-06-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	34.12 22.67		
	1	T16G GABLE	10 / 12	7-00-00	4-06-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	35.12 23.67		
	1 2-ply	T17 Common Girder	10 / 12	12-06-08	8-02-11	2 x 4 2 x 6		3-07-11 2-04-04	158.64 102.00		
	1	T19G GABLE	10 / 12	11-00-00	6-02-11	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	53.45 35.33		
	1 2-ply	T20 Common Girder	10 / 12	12-01-08	6-10-03	2 x 6 2 x 8		2-05-11 1-01-07	160.54 104.00		
	1	T21S GABLE	10 / 12	12-01-08	6-10-03	2 x 4		1-05-11 1-01-07	56.65 37.33		
	1	T22 Common	10 / 12	12-06-00	6-10-03	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	60.1 39.50		
	1	T22S Roof Special	10 / 12	12-06-00	6-10-03	2 x 4	1-03-08 1-03-08	1-07-11 1-07-11	65.83 46.00		
	1 2-ply	T23 Common Girder	10 / 12	12-06-00	6-10-03	2 x 4 2 x 6		1-07-11 1-07-11	130.8 87.00		
	1	T24 Half Hip Girder	10 / 12	5-10-08	2-09-07	2 x 4	1-03-08	1-07-11 2-09-07	26.8 18.33		

DELIVERY SHIPLIST



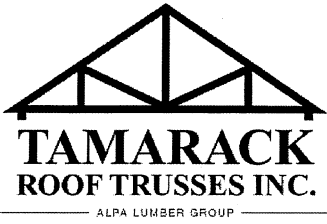
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A OPT. COFF (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420305
 Ref #
 Page: 3 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	2	PB1 Piggyback	10 / 12	11-00-00	1-08-00	2 x 4			65.49 41.67		
	2	PB2 Piggyback	10 / 12	11-00-00	3-04-00	2 x 4			67.27 43.33		
	12	PB3 Piggyback	10 / 12	11-00-00	4-07-00	2 x 4			365.68 232.00		
	1	J1 Jack-Open	10 / 12	5-10-08	6-06-07	2 x 4	1-03-08	1-07-11 6-06-07	20.46 13.00		
	8	J1S Jack-Open	10 / 12	5-10-08	6-06-07	2 x 4	1-03-08	1-07-11 5-06-07	198.47 133.33		
	5	J2 Jack-Open	10 / 12	6-01-08	6-06-07	2 x 4		1-05-03 6-06-07	123.05 85.00		
	2	J3 Jack-Open	10 / 12	3-10-08	4-10-07	2 x 4	1-03-08	1-07-11 4-10-07	30.43 19.33		
	3	J3C Jack-Open	10 / 12	1-10-08	3-02-07	2 x 4	1-03-08	1-07-11 3-02-07	30.36 21.00		
	1	J3C1 Jack-Open	10 / 12	1-10-15	3-02-13	2 x 4	1-03-08 1-11-09	1-07-11 3-02-13	12.3 8.33		
	1	J4 Jack-Open	10 / 12	4-07-08	5-05-15	2 x 4	1-03-08	1-07-11 5-05-15	17.18 11.00		
	1	J4C Jack-Open	10 / 12	3-10-15	4-10-13	2 x 4	1-03-08 8-09	1-07-11 4-10-13	16.12 11.00		
	1	J4C1 Jack-Open	10 / 12	1-10-15	3-02-13	2 x 4	1-03-08 2-08-09	1-07-11 3-02-13	13.15 9.00		
	1	J4C2 Jack-Open	10 / 12	2-00-00	4-10-13	2 x 4	1-10-15	1-07-11 3-03-11	11.21 7.67		
	9	J5 Jack-Open	4.5 / 12	5-05-00	2-09-15	2 x 4	1-03-08	4-00 2-00-10	130.24 84.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: A OPT. COFF (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420305
 Ref #
 Page: 4 of 4
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	J6 Jack-Open	10 /12	1-04-08	2-09-07	2 x 4	1-03-08	1-07-11 2-09-07	25.53 19.00		

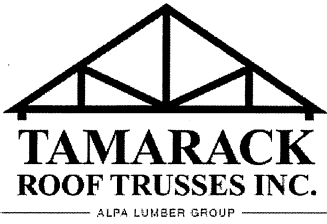
TOTAL # TRUSS= 105 TOTAL BFT OF ALL TRUSSES= 4441.15 BFT. TOTAL WEIGHT OF ALL TRSSES 6945.47 LBS

HARDWARE

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

TOTAL NUMBER OF ITEMS= 31

DELIVERY SHIPLIST



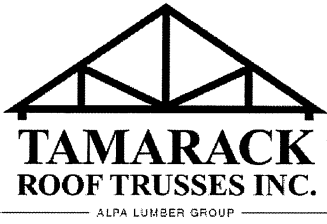
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: B STD (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420307
 Ref #
 Page: 1 of 3
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	T25X Hip Girder	6.75 /1 2	31-06-00	4-03-10	2 x 4 2 x 6	1-03-08	1-03-01 10-00	290.48 178.00		
	1	T26X Hip	6.75 /1 2	31-06-00	5-05-02	2 x 4	1-03-08	1-03-01 10-00	131.1 81.00		
	1	T27X Hip	6.75 /1 2	31-06-00	6-06-10	2 x 4	1-03-08	1-03-01 10-00	134.1 82.50		
	1	T28X Hip	6.75 /1 2	31-06-00	7-08-02	2 x 4	1-03-08	1-03-01 10-00	138.57 86.67		
	1	T29X Hip	6.75 /1 2	31-06-00	8-09-10	2 x 4	1-03-08	1-03-01 10-00	140.92 88.83		
	9	T30 Common	6.75 /1 2	30-09-00	9-10-14	2 x 4	1-03-08 1-03-08	1-03-01 1-03-01	1152.95 717.00		
	2	T30A Common	6.75 /1 2	28-04-00	9-10-14	2 x 4	1-03-08	1-03-01 2-07-06	242.18 154.00		
	1 2-ply	T31 Common Girder	6.75 /1 2	30-09-00	9-10-14	2 x 4 2 x 6	1-03-08	1-03-01 1-03-01	317.19 196.00		
	1 2-ply	T32 Hip Girder	6.75 /1 2	30-09-00	5-05-02	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	293.64 181.00		
	1 2-ply	T33 Hip Girder	6.75 /1 2	30-09-00	4-03-10	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	293.83 182.00		
	1 2-ply	T34 Jack-Closed Girder	6.75 /1 2	5-05-00	4-03-10	2 x 4 2 x 6		1-03-01 4-03-10	57.83 38.00		
	1	T35 Roof Special Girder	6.75 /1 2	18-05-00	4-06-12	2 x 4 2 x 6	1-03-08	1-03-01 1-03-01	91.57 59.17		
	1 2-ply	T36 Jack-Closed Girder	6.75 /1 2	5-10-08	4-06-12	2 x 4 2 x 6		1-03-01 4-06-11	60.07 38.00		
	2	T37 Common	6.75 /1 2	7-07-00	4-08-11	2 x 4		2-07-01 2-07-01	67.33 47.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: B STD (4 OR 5 BED)

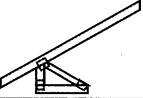
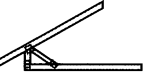
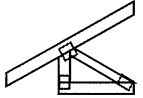
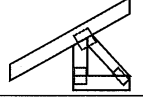
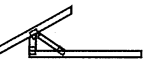
Job Track: 52430
 PlanLog: 204996
 Layout ID: 420307
 Ref #
 Page: 2 of 3
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	T38 Hip Girder	6.75 /1 2	7-00-00	2-03-12	2 x 4	1-03-08 1-03-08	1-03-01 1-03-01	30.56 20.00		
	1 2-ply	T39 Half Hip Girder	6.75 /1 2	5-01-08	3-09-02	2 x 4 2 x 6		1-03-01 3-09-03	52.29 37.00		
	1 2-ply	T40 Hip Girder	6.75 /1 2	11-00-00	4-06-07	2 x 4 2 x 6		2-09-01 2-09-01	110.34 71.33		
	1	T41 Hip Girder	6.75 /1 2	11-00-00	1-10-15	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	49.23 33.33		
	1	T42 Hip Girder	6.75 /1 2	12-06-00	4-03-10	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	60.92 39.33		
	2	T43 Common	6.75 /1 2	12-06-00	4-09-04	2 x 4	1-03-08 1-03-08	1-03-01 1-03-01	98.34 61.00		
	1	T45 Hip	6.75 /1 2	28-04-00	8-09-10	2 x 4	1-03-08	1-03-01 2-07-06	128.86 82.83		
	1	T46 Hip	6.75 /1 2	28-04-00	7-08-02	2 x 4	1-03-08	1-03-01 2-07-06	123.05 77.67		
	1	T47 Hip	6.75 /1 2	28-04-00	6-06-10	2 x 4	1-03-08	1-03-01 2-07-06	121.9 77.17		
	1 2-ply	T48 Jack-Closed Girder	6.75 /1 2	5-05-00	4-03-10	2 x 4 2 x 6		1-03-01 4-03-10	55.65 38.00		
	13	J7 Jack-Open	6.75 /1 2	5-05-00	4-03-10	2 x 4	1-03-08	1-03-01 4-03-10	224.97 143.00		
	4	J7C Jack-Open	6.75 /1 2	3-09-07	3-04-10	2 x 4	1-03-08 1-07-09	1-03-01 3-04-10	60.69 38.67		
	4	J7C1 Jack-Open	6.75 /1 2	1-09-07	2-03-02	2 x 4	1-03-08 3-07-09	1-03-01 2-03-02	50.22 33.33		
	6	J7C2 Jack-Open	6.75 /1 2	1-09-07	2-03-02	2 x 4	1-03-08 1-01	1-03-01 2-03-02	52.18 34.00		

DELIVERY SHIPLIST				
 TAMARACK ROOF TRUSSES INC. ALPA LUMBER GROUP	Lumber Yard:	TAMARACK LUMBER	Job Track:	52430
	Builder:	ROYAL PINE HOMES	PlanLog:	204996
	Project:	VALES OF CASTLEMORE NORTH	Layout ID:	420307
	Location:	BRAMPTON	Ref #	
	Model:	MODEL 40-4 (CORNER)	Page:	3 of 3
	Lot #:		Date:	08-05-2021
	Elevation:	B STD (4 OR 5 BED)	Designer:	
		Sales Rep:	Rick DiCiano	

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
	6	J7C3 Jack-Open	6.75 /1 2	1-10-08	3-04-10	2 x 4	1-03-08 1-10-15	1-03-01 2-03-12	67.88 42.00		
	1	J8 Jack-Open	6.75 /1 2	3-10-15	3-05-07	2 x 4	1-03-08 1-11-09	1-03-01 3-05-07	15.86 10.33		
	1	J8C Jack-Open	6.75 /1 2	1-10-15	2-03-15	2 x 4	1-03-08 3-11-09	1-03-01 2-03-15	13.24 8.33		
	3	J9 Jack-Open	6.75 /1 2	1-10-08	2-03-12	2 x 4	1-03-08	1-03-01 2-03-12	26.44 17.00		
	6	J10 Jack-Open	6.75 /1 2	1-02-00	1-10-15	2 x 4	1-03-08	1-03-01 1-10-15	39.58 30.00		
	1	J11C Jack-Open	6.75 /1 2	1-10-15	2-03-15	2 x 4	1-05-00 3-02-09	1-03-01 2-03-15	12.55 8.33		

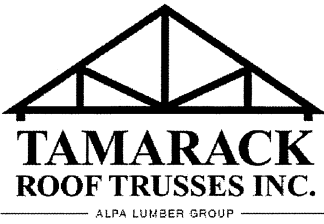
TOTAL # TRUSS= 89 TOTAL BFT OF ALL TRUSSES= 3031.82 BFT. TOTAL WEIGHT OF ALL TRSSES 4806.51 LBS

HARDWARE

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

TOTAL NUMBER OF ITEMS= 15

DELIVERY SHIPLIST



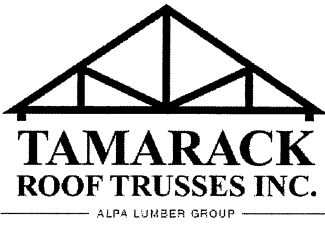
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: B OPT. COFF (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420570
 Ref #
 Page: 1 of 3
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	T25XS Hip Girder	6.75 /1 2	31-06-00	4-03-10	2 x 4 2 x 6	1-03-08	1-03-01 10-00	313.11 198.00		
	1	T26XS Hip	6.75 /1 2	31-06-00	5-05-02	2 x 4	1-03-08	1-03-01 10-00	137.42 87.50		
	1	T27XS Hip	6.75 /1 2	31-06-00	6-06-10	2 x 4	1-03-08	1-03-01 10-00	147.71 92.33		
	1	T28XS Hip	6.75 /1 2	31-06-00	7-08-02	2 x 4	1-03-08	1-03-01 10-00	149.64 95.50		
	1	T29XS Hip	6.75 /1 2	31-06-00	8-09-10	2 x 4	1-03-08	1-03-01 10-00	159.29 100.83		
	9	T30 Common	6.75 /1 2	30-09-00	9-10-14	2 x 4	1-03-08 1-03-08	1-03-01 1-03-01	1179.78 732.00		
	2	T30A Common	6.75 /1 2	28-04-00	9-10-14	2 x 4	1-03-08	1-03-01 2-07-06	242.18 154.00		
	1 2-ply	T31 Common Girder	6.75 /1 2	30-09-00	9-10-14	2 x 4 2 x 6	1-03-08	1-03-01 1-03-01	314.92 194.67		
	1 2-ply	T32 Hip Girder	6.75 /1 2	30-09-00	5-05-02	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	291.41 179.67		
	1 2-ply	T33 Hip Girder	6.75 /1 2	30-09-00	4-03-10	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	293.83 182.00		
	1 2-ply	T34 Jack-Closed Girder	6.75 /1 2	5-05-00	4-03-10	2 x 4 2 x 6		1-03-01 4-03-10	57.83 38.00		
	1	T35 Roof Special Girder	6.75 /1 2	18-05-00	4-06-12	2 x 4 2 x 6	1-03-08	1-03-01 1-03-01	91.57 59.17		
	1 2-ply	T36 Jack-Closed Girder	6.75 /1 2	5-10-08	4-06-12	2 x 4 2 x 6		1-03-01 4-06-11	60.07 38.00		
	2	T37 Common	6.75 /1 2	7-07-00	4-08-11	2 x 4		2-07-01 2-07-01	67.33 47.00		

DELIVERY SHIPLIST



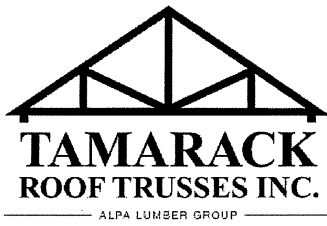
Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: B OPT. COFF (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420570
 Ref #
 Page: 2 of 3
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

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	T38 Hip Girder	6.75 /1 2	7-00-00	2-03-12	2 x 4	1-03-08 1-03-08	1-03-01 1-03-01	30.56 20.00		
	1 2-ply	T39 Half Hip Girder	6.75 /1 2	5-01-08	3-09-02	2 x 4 2 x 6		1-03-01 3-09-03	52.29 37.00		
	1 2-ply	T40 Hip Girder	6.75 /1 2	11-00-00	4-06-07	2 x 4 2 x 6		2-09-01 2-09-01	110.34 71.33		
	1	T41 Hip Girder	6.75 /1 2	11-00-00	1-10-15	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	49.23 33.33		
	1	T42 Hip Girder	6.75 /1 2	12-06-00	4-03-10	2 x 4 2 x 6	1-03-08 1-03-08	1-03-01 1-03-01	60.92 39.33		
	2	T43 Common	6.75 /1 2	12-06-00	4-09-04	2 x 4	1-03-08 1-03-08	1-03-01 1-03-01	98.34 61.00		
	1	T45 Hip	6.75 /1 2	28-04-00	8-09-10	2 x 4	1-03-08	1-03-01 2-07-06	128.86 82.83		
	1	T46 Hip	6.75 /1 2	28-04-00	7-08-02	2 x 4	1-03-08	1-03-01 2-07-06	123.05 77.67		
	1	T47 Hip	6.75 /1 2	28-04-00	6-06-10	2 x 4	1-03-08	1-03-01 2-07-06	120.24 76.17		
	1 2-ply	T48 Jack-Closed Girder	6.75 /1 2	5-05-00	4-03-10	2 x 4 2 x 6		1-03-01 4-03-10	55.65 38.00		
	1	T49 Half Hip Girder	6.75 /1 2	5-05-00	2-00-06	2 x 4	1-03-08	1-03-01 2-00-06	22.4 16.00		
	6	J7 Jack-Open	6.75 /1 2	5-05-00	4-03-10	2 x 4	1-03-08	1-03-01 4-03-10	103.83 66.00		
	3	J7C Jack-Open	6.75 /1 2	3-09-07	3-04-10	2 x 4	1-03-08 1-07-09	1-03-01 3-04-10	45.52 29.00		
	3	J7C1 Jack-Open	6.75 /1 2	1-09-07	2-03-02	2 x 4	1-03-08 3-07-09	1-03-01 2-03-02	37.67 25.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: ROYAL PINE HOMES
 Project: VALES OF CASTLEMORE NORTH
 Location: BRAMPTON
 Model: MODEL 40-4 (CORNER)
 Lot #:
 Elevation: B OPT. COFF (4 OR 5 BED)

Job Track: 52430
 PlanLog: 204996
 Layout ID: 420570
 Ref #
 Page: 3 of 3
 Date: 08-05-2021
 Designer:
 Sales Rep: Rick DiCiano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	5	J7C2 Jack-Open	6.75 /1 2	1-09-07	2-03-02	2 x 4	1-03-08 1-01	1-03-01 2-03-02	43.48 28.33		
	5	J7C3 Jack-Open	6.75 /1 2	1-10-08	3-04-10	2 x 4	1-03-08 1-10-15	1-03-01 2-03-12	56.57 35.00		
	8	J7S Jack-Open	6.75 /1 2	5-05-00	4-03-10	2 x 4	1-03-08	1-03-01 3-03-10	162.31 106.67		
	1	J8 Jack-Open	6.75 /1 2	3-10-15	3-05-07	2 x 4	1-03-08 1-11-09	1-03-01 3-05-07	15.86 10.33		
	1	J8C Jack-Open	6.75 /1 2	1-10-15	2-03-15	2 x 4	1-03-08 3-11-09	1-03-01 2-03-15	13.24 8.33		
	3	J9 Jack-Open	6.75 /1 2	1-10-08	2-03-12	2 x 4	1-03-08	1-03-01 2-03-12	26.44 17.00		
	6	J10 Jack-Open	6.75 /1 2	1-02-00	1-10-15	2 x 4	1-03-08	1-03-01 1-10-15	39.6 30.00		
	1	J11C Jack-Open	6.75 /1 2	1-10-15	2-03-15	2 x 4	1-05-00 3-02-09	1-03-01 2-03-15	12.55 8.33		
	3	J12 Jack-Open	6.75 /1 2	1-04-08	2-00-06	2 x 4	1-03-08	1-03-01 2-00-06	21.71 17.00		

TOTAL # TRUSS= 90

TOTAL BFT OF ALL TRUSSES= 3132.32 BFT.

TOTAL WEIGHT OF ALL TRSSES 4936.73 LBS

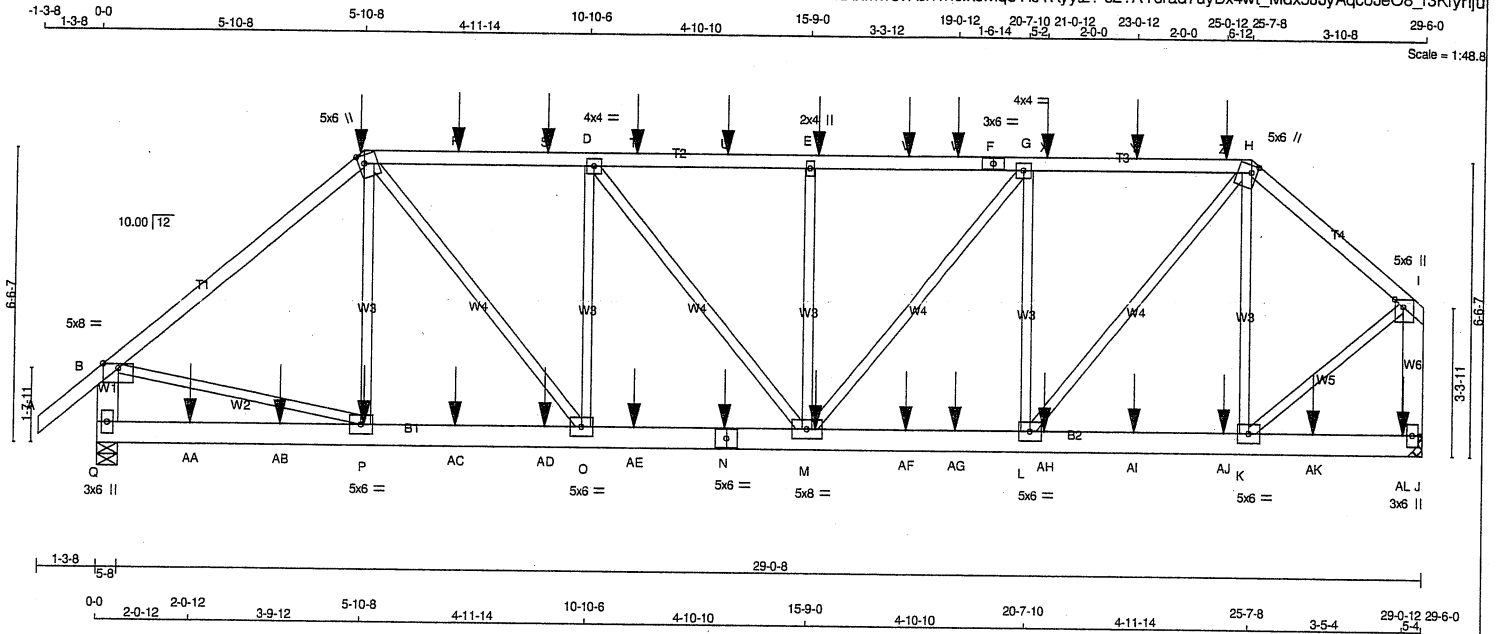
HARDWARE

QTY	TYPE	MODEL	LENGTH
2	Hardware	LJS26DS	
8	Hardware	LUS24	
2	Hardware	LUS26-2	
4	Hardware	HGUS26-2	

TOTAL NUMBER OF ITEMS= 16

JOB NAME 420230	TRUSS NAME T1	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	CHORDS	SIZE	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
Q - B	2x6	DRY	No.2
J - I	2x6	DRY	No.2
Q - N	2x6	DRY	No.2
N - J	2x6	DRY	No.2

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 - F	12	SIDE(61.0)
F - H	12	SIDE(0.0)
H - I	12	TOP
Q - B	12	TOP
J - I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Q - N	12	SIDE(183.1)
N - J	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
P - C	6	SIDE(22.4)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
Q	3087	0	3087	0
J	3197	0	3197	0

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

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	2189	1402 / 0	0 / 0	0 / 0	0 / 0	788 / 0	0 / 0
J	2269	1441 / 0	0 / 0	0 / 0	0 / 0	828 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.39 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 38	P-C	-293 / 71
B-C	-3312 / 0	C-O	0 / 1733
C-R	-3627 / 0	O-D	-1163 / 0
R-S	-3627 / 0	D-M	0 / 330
S-D	-3627 / 0	M-E	-829 / 0
D-T	-3833 / 0	M-G	0 / 903
T-U	-3833 / 0	L-G	-1404 / 0
U-E	-3833 / 0	L-H	0 / 2357
E-V	-3833 / 0	K-H	-692 / 0
V-W	-3833 / 0	B-P	0 / 2592
W-F	-3833 / 0	K-I	0 / 2221
F-G	-3833 / 0		
G-X	-3272 / 0		
X-Y	-3272 / 0		
Y-Z	-3272 / 0		
Z-H	-3272 / 0		
H-I	-2346 / 0		
Q-B	-3011 / 0		
J-I	-2977 / 0		

Q-AA	0 / 0	-18.5	-18.5	0.07 (4)	10.00
AA-AB	0 / 0	-18.5	-18.5	0.07 (4)	10.00
AB-P	0 / 0	-18.5	-18.5	0.07 (4)	10.00
P-AC	0 / 2535	-18.5	-18.5	0.20 (1)	10.00
AC-AD	0 / 2535	-18.5	-18.5	0.20 (1)	10.00
AD-O	0 / 2535	-18.5	-18.5	0.20 (1)	10.00
O-AE	0 / 3627	-18.5	-18.5	0.28 (1)	10.00
AE-N	0 / 3627	-18.5	-18.5	0.28 (1)	10.00
N-M	0 / 3627	-18.5	-18.5	0.28 (1)	10.00
M-AF	0 / 3272	-18.5	-18.5	0.26 (1)	10.00
AF-AG	0 / 3272	-18.5	-18.5	0.26 (1)	10.00
AG-L	0 / 3272	-18.5	-18.5	0.26 (1)	10.00
L-AH	0 / 1785	-18.5	-18.5	0.22 (1)	10.00
AH-AI	0 / 1785	-18.5	-18.5	0.22 (1)	10.00
AI-AJ	0 / 1785	-18.5	-18.5	0.22 (1)	10.00
AJ-K	0 / 1785	-18.5	-18.5	0.22 (1)	10.00
K-AK	0 / 0	-18.5	-18.5	0.10 (1)	10.00
AK-AL	0 / 0	-18.5	-18.5	0.10 (1)	10.00
AL-J	0 / 0	-18.5	-18.5	0.10 (1)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.98")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.98")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.42/1.00 (B-C:1), BC=0.28/1.00 (M-O:1), WB=0.47/1.00 (G-L:1), SS=0.21/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (H) (INPUT = 0.90)
JSI METAL= 0.36 (N) (INPUT = 1.00)



Structural component only
DWG# T-2126295

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
420230	T1	1	2	TRUSS DESC.		

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PLATES (table is in inches)							SPECIFIED CONCENTRATED LOADS (LBS)									
JT	TYPE	PLATES	W	LEN	Y	X	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	TMVW-p	MT20	5.0	8.0	Edge		C	5-10-8	-383	-383	---	FRONT	VERT	TOTAL	---	C1
C	TTWW+m	MT20	5.0	6.0	2.25	1.50	E	15-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
D	TMWW-t	MT20	4.0	4.0			M	15-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
E	TMW+w	MT20	2.0	4.0			N	13-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
F	TS-t	MT20	3.0	6.0			P	5-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
G	TMWW-t	MT20	4.0	4.0			R	7-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
H	TTWW+m	MT20	5.0	6.0	2.00	1.50	S	9-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
I	TMVW+p	MT20	5.0	6.0	2.00	2.25	T	11-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
J	BMV1+p	MT20	3.0	6.0			U	13-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
K, L, O, P							V	17-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
K	BMWW-t	MT20	5.0	6.0			W	19-0-12	-113	-113	---	FRONT	VERT	TOTAL	---	C1
M	BMWWW-t	MT20	5.0	8.0			X	21-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
N	BS-t	MT20	5.0	6.0			Y	23-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
Q	BMV1+p	MT20	3.0	6.0			Z	25-0-12	-27	-27	---	FRONT	VERT	TOTAL	---	C1
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.							AA	2-0-12	-29	-29	---	FRONT	VERT	TOTAL	---	C1
							AB	4-0-12	-29	-29	---	FRONT	VERT	TOTAL	---	C1
							AC	7-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
							AD	9-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
							AE	11-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
							AF	17-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
							AG	19-0-12	-29	-29	---	FRONT	VERT	TOTAL	---	C1
							AH	21-0-12	-138	-138	---	FRONT	VERT	TOTAL	---	C1
							AI	23-0-12	-138	-138	---	FRONT	VERT	TOTAL	---	C1
							AJ	25-0-12	-138	-138	---	FRONT	VERT	TOTAL	---	C1
							AK	27-0-12	-138	-138	---	FRONT	VERT	TOTAL	---	C1
							AL	29-0-12	-142	-142	---	FRONT	VERT	TOTAL	---	C1

NOTES: (1)

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

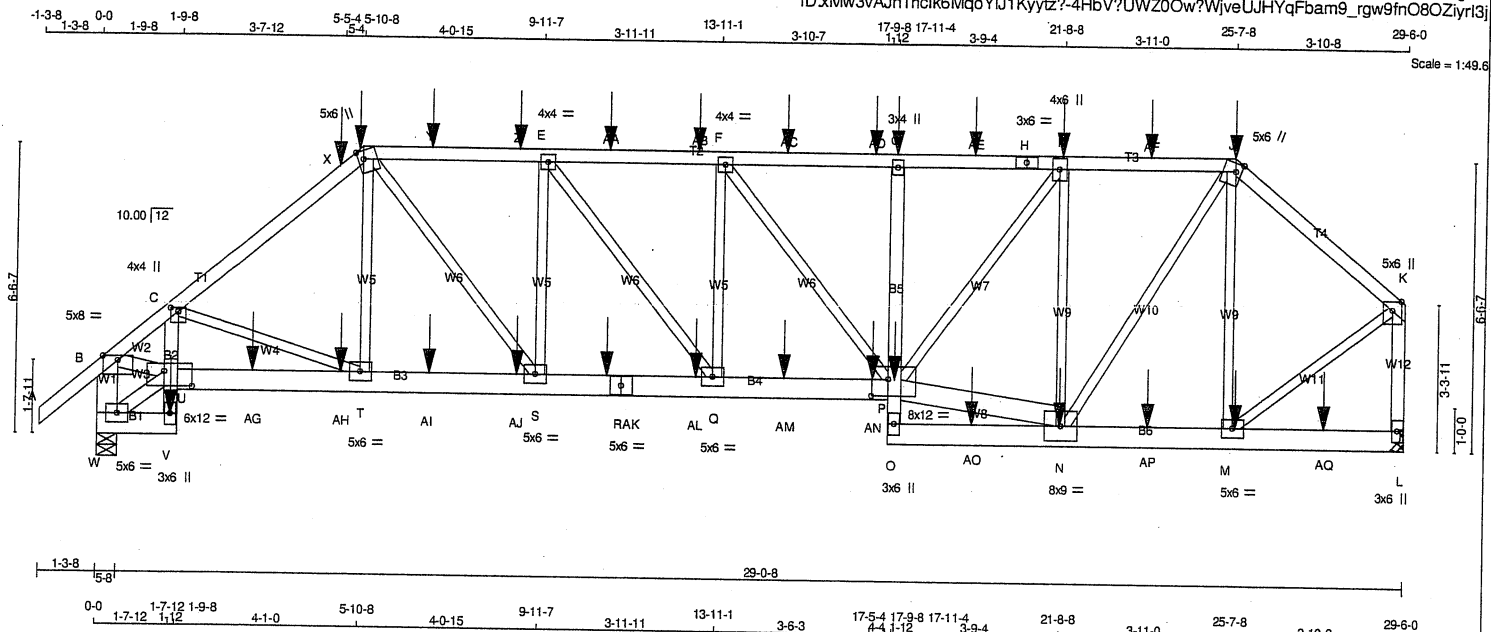
NOTES: (1)
1) Lateral braces to be a minimum of 2X4 SPF #2.

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



JOB NAME 420305	TRUSS NAME T1S	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - K	2x4	DRY	No.2
W - B	2x6	DRY	No.2
L - K	2x4	DRY	No.2
W - V	2x6	DRY	No.2
V - C	2x4	DRY	No.2
U - R	2x6	DRY	No.2
R - P	2x6	DRY	No.2
O - G	2x4	DRY	No.2
O - L	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
P - N	2x6	DRY	No.2
W - U	2x4	DRY	No.2
B - U	2x4	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	SIDE(61.0)
D-H 1	12	SIDE(61.0)
H-J 1	12	SIDE(61.0)
J-K 1	12	SIDE(61.0)
L-K 1	12	TOP
W-B 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W-V 2	12	SIDE(122.0)
U-R 2	12	TOP
R-P 2	12	SIDE(61.0)
O-L 2	12	SIDE(183.1)
V-C 1	12	TOP
G-O 1	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	
2x4 1	6	
2x6 2	6	

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
JT	3343	0	3343	0
L	3343	0	3343	0
W	3448	0	3448	0

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

UNFACTORED REACTIONS

	1ST LOASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	2368	1529 / 0	0 / 0	0 / 0	0 / 0	839 / 0	0 / 0
W	2438	1603 / 0	0 / 0	0 / 0	0 / 0	835 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED (LBS)	MEMB.	FORCE (LBS)	MAX. FACTORED (LBS)	MAX. FACTORED (LBS)
FR-TO				FR-TO			
A-B	0 / 38	-84.9	-84.9 0.06 (1)	10.00	C-T	-452 / 0	0.08 (1)
B-C	-4587 / 0	-84.9	-84.9 0.14 (1)	4.38	T-D	0 / 372	0.05 (1)
C-X	-4134 / 0	-84.9	-84.9 0.23 (1)	4.50	P-N	0 / 3216	0.21 (1)
X-D	-4134 / 0	-84.9	-84.9 0.23 (1)	4.50	P-I	0 / 2374	0.29 (1)
D-Y	-4303 / 0	-84.9	-84.9 0.24 (1)	4.40	N-I	-2298 / 0	0.77 (1)
Y-Z	-4303 / 0	-84.9	-84.9 0.24 (1)	4.40	N-J	0 / 2294	0.28 (1)
Z-E	-4303 / 0	-84.9	-84.9 0.24 (1)	4.40	M-J	-917 / 0	0.31 (1)
E-AA	-4760 / 0	-84.9	-84.9 0.25 (1)	4.20	M-K	0 / 2430	0.30 (1)
AA-AB	-4760 / 0	-84.9	-84.9 0.25 (1)	4.20	W-U	-124 / 0	0.01 (1)
AB-F	-4760 / 0	-84.9	-84.9 0.25 (1)	4.20	B-U	0 / 3536	0.31 (1)
F-AC	-4609 / 0	-84.9	-84.9 0.22 (1)	4.30	F-P	-245 / 0	0.09 (1)
AC-AD	-4609 / 0	-84.9	-84.9 0.22 (1)	4.30	D-S	0 / 1795	0.22 (1)
AD-G	-4609 / 0	-84.9	-84.9 0.22 (1)	4.30	Q-F	-340 / 0	0.08 (1)
G-AE	-4593 / 0	-84.9	-84.9 0.17 (1)	4.35	S-E	-1162 / 0	0.26 (1)
AE-H	-4593 / 0	-84.9	-84.9 0.17 (1)	4.35	E-Q	0 / 749	0.09 (1)
H-I	-4593 / 0	-84.9	-84.9 0.17 (1)	4.35			
I-AF	-3170 / 0	-84.9	-84.9 0.14 (1)	5.10			
AF-J	-3170 / 0	-84.9	-84.9 0.14 (1)	5.10			
J-K	-2567 / 0	-84.9	-84.9 0.15 (1)	5.51			
W-B	-3364 / 0	0.0	0.0 0.12 (1)	7.59			
L-K	-3241 / 0	0.0	0.0 0.30 (1)	6.45			

W-V	0 / 103	-18.5	-18.5 0.01 (1)	10.00
V-U	0 / 281	0.0	0.0 0.11 (1)	10.00
U-C	0 / 139	0.0	0.0 0.10 (1)	10.00
U-AG	0 / 3604	-18.5	-18.5 0.28 (1)	10.00
AG-AH	0 / 3604	-18.5	-18.5 0.28 (1)	10.00
AH-T	0 / 3604	-18.5	-18.5 0.28 (1)	10.00
T-AI	0 / 3187	-18.5	-18.5 0.25 (1)	10.00
AI-AJ	0 / 3187	-18.5	-18.5 0.25 (1)	10.00
AJ-S	0 / 3187	-18.5	-18.5 0.25 (1)	10.00
S-AK	0 / 4303	-18.5	-18.5 0.32 (1)	10.00
AK-R	0 / 4303	-18.5	-18.5 0.32 (1)	10.00
R-AL	0 / 4303	-18.5	-18.5 0.32 (1)	10.00
AL-Q	0 / 4303	-18.5	-18.5 0.32 (1)	10.00
Q-AM	0 / 4760	-18.5	-18.5 0.36 (1)	10.00
AM-AN	0 / 4760	-18.5	-18.5 0.36 (1)	10.00
AN-P	0 / 4760	-18.5	-18.5 0.36 (1)	10.00
O-P	0 / 115	0.0	0.0 0.07 (1)	10.00

TOTAL WEIGHT = 2 X 170 = 339 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 = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.98")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (0.98")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.30/1.00 (K-L:1), BC=0.36/1.00 (P-Q:1), WB=0.77/1.00 (H-N:1), SSI=0.15/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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.



Structural component only
DWG# T-2126323 1/2

CONTINUED ON PAGE 2

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TMVW+p	MT20	4.0	4.0	1.00	2.00
D	TTWW+m	MT20	5.0	6.0	2.25	1.50
E	TMWW-t	MT20	4.0	4.0		
F	TMWW-t	MT20	4.0	4.0		
G	TMV+p	MT20	3.0	4.0		
H	TS-t	MT20	3.0	6.0		
I	TMWW+t	MT20	4.0	6.0		
J	TTWW+m	MT20	5.0	6.0	2.25	1.50
K	TMVW+p	MT20	5.0	6.0	Edge	
L	BMV1+p	MT20	3.0	6.0		
M, Q, S, T						
M	BMWW-t	MT20	5.0	6.0		
N	BMWWW-t	MT20	8.0	9.0		
O	BMV+p	MT20	3.0	6.0		
P	BVMWWW-I	MT20	8.0	12.0	4.50	4.50
R	BS-t	MT20	5.0	6.0		
U	BVMWW-I	MT20	6.0	12.0	4.00	7.50
V	BMV+p	MT20	3.0	6.0		
W	BMVW1-t	MT20	5.0	6.0		

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

NOTES: (1)

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MAX. FACTORED CSI (LC)	UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO			LENGTH	FR-TO		
P-G	-608 / 0	0.0	0.0	0.10 (1)	7.81				
O-AO	0 / 82	-18.5	-18.5	0.07 (1)	10.00				
AO-N	0 / 82	-18.5	-18.5	0.07 (1)	10.00				
N-AP	0 / 1951	-18.5	-18.5	0.19 (1)	10.00				
AP-M	0 / 1951	-18.5	-18.5	0.19 (1)	10.00				
M-AQ	0 / 0	-18.5	-18.5	0.06 (1)	10.00				
AQ-L	0 / 0	-18.5	-18.5	0.06 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-58	-58	---	FRONT	VERT	DEAD	---	C1
D	5-10-8	-223	-223	---	FRONT	VERT	SNOW	---	C1
G	17-11-4	-113	-113	---	FRONT	VERT	TOTAL	---	C1
I	21-8-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
J	25-7-8	-20	-20	---	FRONT	VERT	TOTAL	---	C1
J	25-7-8	-38	-38	---	FRONT	VERT	DEAD	---	C1
J	25-7-8	-147	-147	---	FRONT	VERT	SNOW	---	C1
M	25-8-4	-138	-138	---	FRONT	VERT	TOTAL	---	C1
N	21-8-4	-138	-138	---	FRONT	VERT	TOTAL	---	C1
P	17-11-4	-29	-29	---	FRONT	VERT	TOTAL	---	C1
V	1-7-12	-186	-186	---	FRONT	VERT	TOTAL	---	C1
X	5-5-4	-83	-83	---	FRONT	VERT	TOTAL	---	C1
Y	7-5-4	-66	-66	---	FRONT	VERT	TOTAL	---	C1
Z	9-5-4	-66	-66	---	FRONT	VERT	TOTAL	---	C1
AA	11-5-4	-66	-66	---	FRONT	VERT	TOTAL	---	C1
AB	13-5-4	-66	-66	---	FRONT	VERT	TOTAL	---	C1
AC	15-5-4	-66	-66	---	FRONT	VERT	TOTAL	---	C1
AD	17-5-4	-66	-66	---	FRONT	VERT	TOTAL	---	C1
AE	19-8-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AF	23-8-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
AG	3-5-4	-66	-66	---	TOP	VERT	TOTAL	---	C1
AH	5-5-4	-66	-66	---	TOP	VERT	TOTAL	---	C1
AI	7-5-4	-66	-66	---	TOP	VERT	TOTAL	---	C1
AJ	9-5-4	-66	-66	---	TOP	VERT	TOTAL	---	C1
AK	11-5-4	-66	-66	---	TOP	VERT	TOTAL	---	C1
AL	13-5-4	-66	-66	---	TOP	VERT	TOTAL	---	C1
AM	15-5-4	-66	-66	---	TOP	VERT	TOTAL	---	C1
AN	17-5-4	-70	-70	---	TOP	VERT	TOTAL	---	C1
AO	19-8-4	-138	-138	---	FRONT	VERT	TOTAL	---	C1
AP	23-8-4	-138	-138	---	FRONT	VERT	TOTAL	---	C1
AQ	27-8-4	-138	-138	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

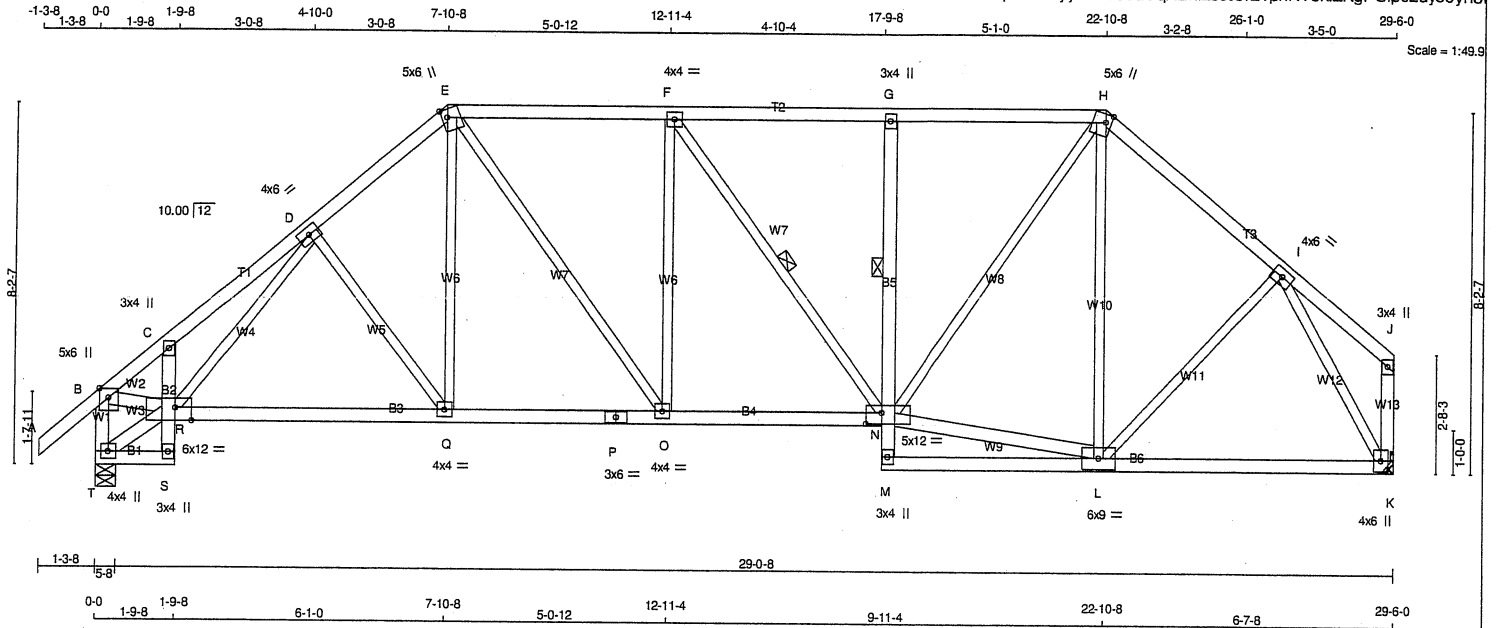
JSI GRIP= 0.89 (D) (INPUT = 0.90)

JSI METAL= 0.44 (K) (INPUT = 1.00)



JOB NAME 420305	TRUSS NAME T2S	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. Wed Aug 4 08:50:25 2021 Page 1
ID:Mw3vAjh1ncl6MqoYUJ1Kyytz?-ZU9uQqXBni2s8tUr21pnNT8kZKgPOip02uy59yr13



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4	DRY	No.2
E - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
T - B	2x4	DRY	No.2
K - J	2x4	DRY	No.2
T - S	2x4	DRY	No.2
S - C	2x4	DRY	No.2
R - P	2x4	DRY	No.2
P - N	2x4	DRY	No.2
M - G	2x4	DRY	No.2
M - K	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
N - L	2x4	DRY	No.2
T - R	2x4	DRY	No.2
B - R	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	
C, G, J					
D TMV+p	MT20	3.0	4.0		
E TMVW-t	MT20	4.0	6.0		
F TTWW+m	MT20	5.0	6.0	2.25	1.50
H TTWW-t	MT20	4.0	4.0		
I TMVW-t	MT20	5.0	6.0	2.25	1.50
K BMVW+p	MT20	4.0	6.0		
L BMVW-t	MT20	6.0	9.0		
M BMV+p	MT20	3.0	4.0		
N BVMMWW-t	MT20	5.0	12.0	3.00	4.25
O BMVW-t	MT20	4.0	4.0		
P BS-t	MT20	3.0	6.0		
Q BMVW-t	MT20	4.0	4.0		
R BVMMWW-t	MT20	6.0	12.0	Edge	4.25
S BMV+p	MT20	3.0	4.0		
T BMVW+p	MT20	4.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
K	1522 0	1522 0	0	5-8	5-8
T	1645 0	1645 0	0	5-8	5-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	1080	685 / 0	0 / 0	0 / 0	0 / 0	395 / 0	0 / 0
T	1165	753 / 0	0 / 0	0 / 0	0 / 0	412 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.80 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-N, F-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		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 38	-84.9 -84.9	0.12 (1)	10.00	R-D	-96 / 0	0.04 (1)
B-C	-1782 / 0	-84.9 -84.9	0.14 (1)	4.87	D-Q	-235 / 0	0.11 (1)
C-D	-1754 / 0	-84.9 -84.9	0.17 (1)	4.88	Q-E	0 / 307	0.07 (1)
D-E	-1684 / 0	-84.9 -84.9	0.17 (1)	4.96	N-L	0 / 994	0.16 (1)
E-F	-1631 / 0	-84.9 -84.9	0.35 (1)	4.80	N-H	0 / 980	0.22 (1)
F-G	-1575 / 0	-84.9 -84.9	0.34 (1)	4.87	L-H	-277 / 0	0.36 (1)
G-H	-1571 / 0	-84.9 -84.9	0.32 (1)	4.90	L-I	0 / 291	0.07 (1)
H-I	-1326 / 0	-84.9 -84.9	0.20 (1)	5.41	I-K	-1625 / 0	0.68 (1)
I-J	0 / 30	-84.9 -84.9	0.17 (1)	10.00	T-R	-50 / 0	0.01 (1)
T-B	-1604 / 0	0.0 0.0	0.17 (1)	6.52	B-R	0 / 1367	0.22 (1)
K-J	-61 / 0	0.0 0.0	0.01 (1)	7.81	F-N	-96 / 0	0.05 (1)
					E-O	0 / 595	0.13 (1)
					O-F	-386 / 0	0.35 (1)
T-S	0 / 42	-18.5 -18.5	0.02 (4)	10.00			
S-R	0 / 17	0.0 0.0	0.06 (1)	10.00			
R-C	-132 / 0	0.0 0.0	0.06 (1)	7.81			
R-Q	0 / 1419	-18.5 -18.5	0.32 (1)	10.00			
Q-P	0 / 1279	-18.5 -18.5	0.29 (1)	10.00			
P-O	0 / 1279	-18.5 -18.5	0.29 (1)	10.00			
O-N	0 / 1631	-18.5 -18.5	0.32 (1)	10.00			
M-N	0 / 32	0.0 0.0	0.04 (1)	10.00			
N-G	-451 / 0	0.0 0.0	0.05 (1)	6.25			
M-L	0 / 26	-18.5 -18.5	0.19 (4)	10.00			
L-K	0 / 804	-18.5 -18.5	0.26 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.98")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.98")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.35/1.00 (E-F:1), BC=0.32/1.00 (N-O:1), WB=0.68/1.00 (H-K:1), SS=0.20/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

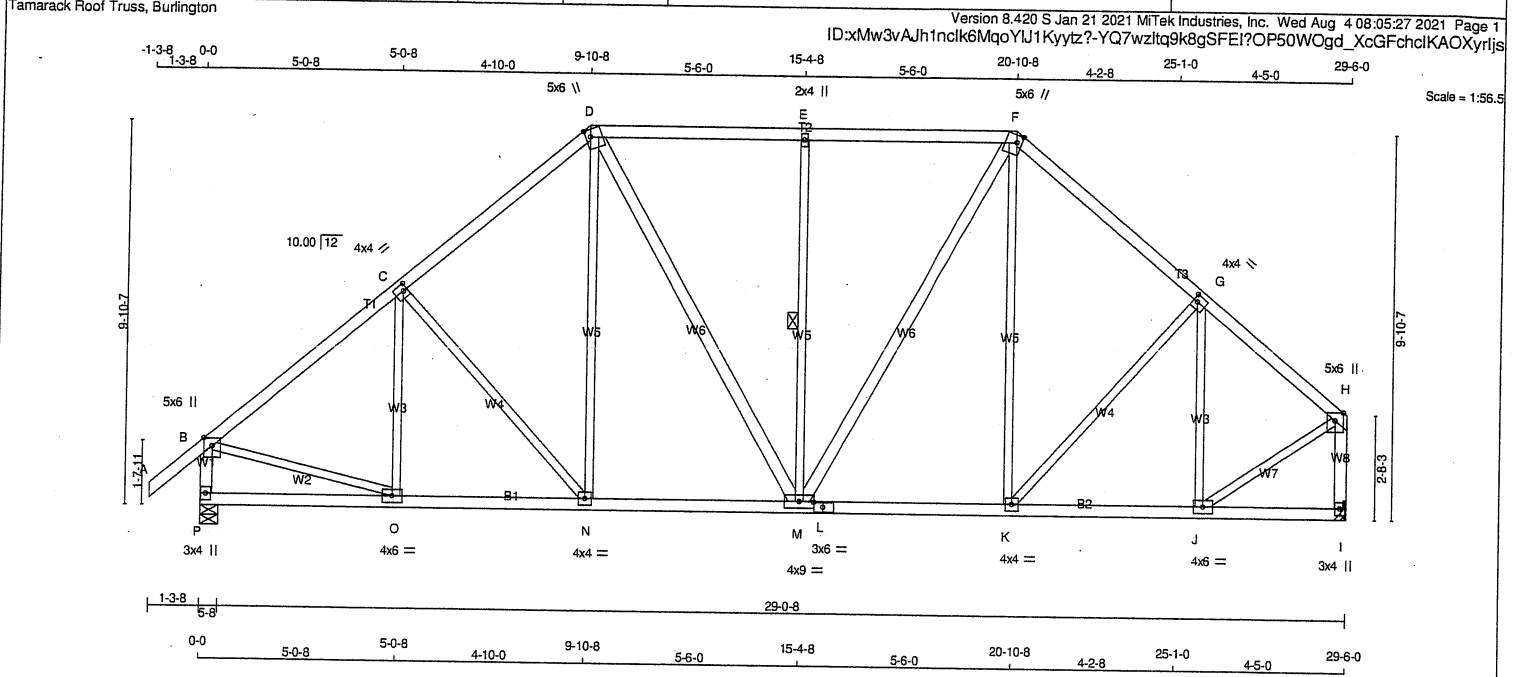
PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.63 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126324



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

FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
P	1642	0	1642	0	0	5-8	5-8
I	1525	0	1525	0	0	MECHANICAL	

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

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
P	1163	751 / 0	0 / 0
I	1082	687 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 38	O-C	-214 / 1
B-C	-1542 / 0	C-N	-239 / 0
C-D	-1402 / 0	N-D	0 / 273
D-E	-1208 / 0	D-M	0 / 313
E-F	-1208 / 0	M-E	-570 / 0
F-G	-1302 / 0	M-F	0 / 461
G-H	-1211 / 0	K-F	0 / 94
P-B	-1603 / 0	J-G	-506 / 0
I-H	-1497 / 0	B-O	0 / 1249
		J-H	0 / 1124
		K-G	0 / 33

CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 38	O-C	-214 / 1
B-C	-1542 / 0	C-N	-239 / 0
C-D	-1402 / 0	N-D	0 / 273
D-E	-1208 / 0	D-M	0 / 313
E-F	-1208 / 0	M-E	-570 / 0
F-G	-1302 / 0	M-F	0 / 461
G-H	-1211 / 0	K-F	0 / 94
P-B	-1603 / 0	J-G	-506 / 0
I-H	-1497 / 0	B-O	0 / 1249
		J-H	0 / 1124
		K-G	0 / 33

CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 38	O-C	-214 / 1
B-C	-1542 / 0	C-N	-239 / 0
C-D	-1402 / 0	N-D	0 / 273
D-E	-1208 / 0	D-M	0 / 313
E-F	-1208 / 0	M-E	-570 / 0
F-G	-1302 / 0	M-F	0 / 461
G-H	-1211 / 0	K-F	0 / 94
P-B	-1603 / 0	J-G	-506 / 0
I-H	-1497 / 0	B-O	0 / 1249
		J-H	0 / 1124
		K-G	0 / 33

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-2126297

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.98")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.98")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.35/1.00 (D-E:1) , BC=0.25/1.00 (N-O:1) , WB=0.37/1.00 (E-M:1) , SSI=0.23/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

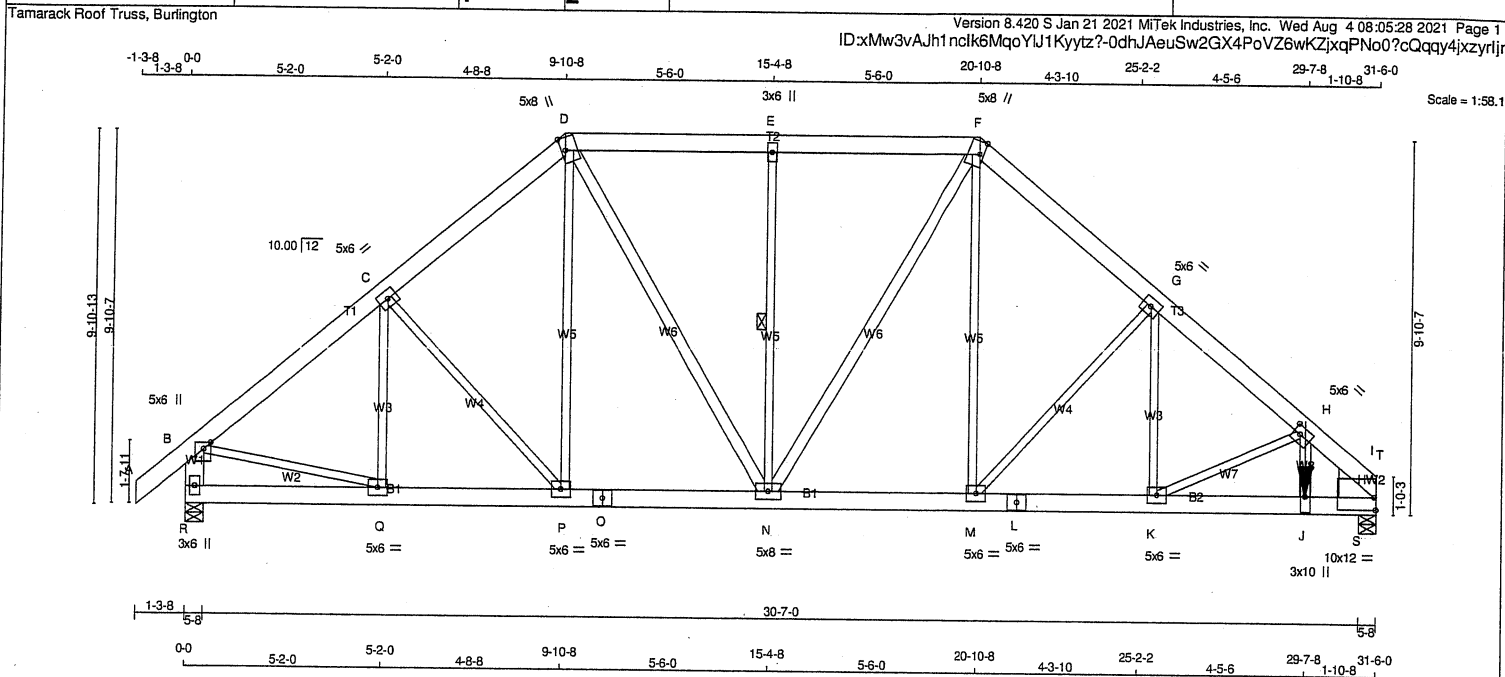
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (O) (INPUT = 0.90)
JSI METAL= 0.58 (B) (INPUT = 1.00)

JOB NAME 420230	TRUSS NAME T4	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER
N. L. G. A. RULES
CHORDS SIZE DRY LUMBER DESCR.
A - D 2x6 DRY No.2 SPF
D - F 2x6 DRY No.2 SPF
F - I 2x6 DRY No.2 SPF
R - B 2x6 DRY No.2 SPF
R - O 2x6 DRY No.2 SPF
O - L 2x6 DRY No.2 SPF
L - I 2x6 DRY No.2 SPF
ALL WEBS 2x3 DRY No.2 SPF
EXCEPT
D - N 2x4 DRY No.2 SPF
N - F 2x4 DRY No.2 SPF
J - H 2x4 DRY No.2 SPF
DRY: SEASONED LUMBER.
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:
CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS
A-D 2 12 TOP
D-F 2 12 TOP
F-I 2 12 TOP
R-B 2 12 TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS
R-O 2 12 TOP
O-L 2 12 TOP
L-I 2 4 SIDE(671.4)
WEBS : (0.122"x3") SPIRAL NAILS
2x3 1 6
J-H 2 2
2x4 1 6 SIDE(513.1)
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD BRG HEEL
JT VERT 2020 0 2020 0 0 5-8 5-8
R 5899 0 5899 0 0 5-8 5-8 2x10 R
I 5899 0 5899 0 0 5-8 5-8
UNFACTORED REACTIONS
1ST LCASE MAX/MIN. COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
R 1431 924 / 0 0 / 0 0 / 0 508 / 0 0 / 0
I 4182 2682 / 0 0 / 0 0 / 0 1500 / 0 0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, I

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD
ALLOWABLE DEFL.(LL)= L/360 (1.05")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (1.05")
CALCULATED VERT. DEFL.(TL)= L/999 (0.08")
CSI: TC=0.41/1.00 (I-T:1) , BC=0.55/1.00 (J-S:1) , WB=0.72/1.00 (G-M:1) , SSI=0.47/1.00 (I-S:1) ,
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00
COMPANION LIVE LOAD FACTOR = 1.00
AUTOSOLVE RIGHT HEEL ONLY
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-N.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (4)
CHORDS FORCE FACTORED WEBS FORCE FACTORED
MEMB. (LBS) VERT. LOAD LC1 MAX. MAX. MEMB. (LBS) MAX. MAX.
FR-TO FROM TO CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)
A-B 0 / 39 -84.9 -84.9 0.03 (1) 10.00 P-D 0 / 247 0.03 (1)
B-C -2051 / 0 -84.9 -84.9 0.09 (1) 6.25 D-N 0 / 737 0.07 (1)
C-D -1942 / 0 -84.9 -84.9 0.09 (1) 6.25 N-E -545 / 0 0.17 (1)
D-E -1839 / 0 -84.9 -84.9 0.11 (1) 6.25 N-F 0 / 28 0.00 (1)
E-F -1839 / 0 -84.9 -84.9 0.11 (1) 6.25 M-F 0 / 1160 0.14 (1)
F-G -2403 / 0 -84.9 -84.9 0.11 (1) 6.25 J-H 0 / 3481 0.31 (1)
G-H -3518 / 0 -84.9 -84.9 0.20 (1) 5.75 M-G -1476 / 0 0.72 (1)
H-T -6764 / 0 -84.9 -84.9 0.37 (1) 4.21 K-G 0 / 1299 0.16 (1)
T-I -8665 / 0 -84.9 -84.9 0.41 (1) 3.73 K-H -2197 / 0 0.37 (1)
R-B -1973 / 0 0.0 0.07 (1) 7.81 B-Q 0 / 1633 0.20 (1)
R-Q 0 / 0 -18.5 -18.5 0.03 (4) 10.00 Q-C -258 / 0 0.06 (1)
Q-P 0 / 1596 -18.5 -18.5 0.12 (1) 10.00 C-P -200 / 0 0.10 (1)
P-O 0 / 1466 -18.5 -18.5 0.12 (1) 10.00 S-T 0 / 2352 0.00 (1)
O-N 0 / 1466 -18.5 -18.5 0.12 (1) 10.00
N-M 0 / 1825 -18.5 -18.5 0.14 (1) 10.00
M-L 0 / 2792 -18.5 -18.5 0.23 (1) 10.00
L-K 0 / 2792 -18.5 -18.5 0.23 (1) 10.00
K-J 0 / 4751 -18.5 -18.5 0.55 (1) 10.00
J-S 0 / 4751 -18.5 -18.5 0.55 (1) 10.00
S-I 0 / 4751 -18.5 -18.5 0.54 (1) 10.00

CONNECTION REQUIREMENTS
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.
SPECIFIED CONCENTRATED LOADS (LBS)
JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.
J 29-7-8 -3218 -3218 --- FRONT VERT TOTAL --- C1
JSI GRIP= 0.86 (I) (INPUT = 0.90)
JSI METAL= 0.96 (J) (INPUT = 1.00)

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

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



Structural component only
DWG# T-2126298

JOB NAME 420230	TRUSS NAME T4	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 Mittek Industries, Inc. Wed Aug 4 08:05:28 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.25
C	TMWW-t	MT20	5.0	6.0		
D	TTWW+m	MT20	5.0	8.0	4.00	1.25
E	TMW+w	MT20	3.0	6.0		
F	TTWW+m	MT20	5.0	8.0	4.00	1.25
G	TMWW-t	MT20	5.0	6.0		
H	TMWW-t	MT20	5.0	6.0	2.50	2.25
I	TMBH1-t	MT20	10.0	12.0	4.00	0.50
J	BMW+w	MT20	3.0	10.0		
K, M, P, Q						
K	BMWW-t	MT20	5.0	6.0		
L	BS-t	MT20	5.0	6.0		
N	BMWWW-t	MT20	5.0	8.0		
O	BS-t	MT20	5.0	6.0		
R	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-2126298 *2/2*

JOB NAME 420305	TRUSS NAME T4S	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 08:50:26 2021 Page 2 ID:xMw3vAjh1nclik6MqoYIJ1Kyvtz?-1qiGQAXpX0Bim131ckK0vghudyc98pTyEidVdbyr13h			

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	TMVW+p	MT20	4.0	6.0		
D, F, I						
D	TMWW-t	MT20	5.0	6.0		
E	TTWW+m	MT20	5.0	8.0	4.00	1.25
G	TMV+p	MT20	3.0	6.0		
H	TTWW+m	MT20	4.0	10.0	4.00	1.25
J	TMWW-t	MT20	5.0	6.0	2.50	2.25
K	TMBH1-l	MT20	10.0	12.0	4.00	0.50
L	BMV+w	MT20	3.0	10.0		
M, Q, S, T						
M	BMWW-t	MT20	5.0	6.0		
N	BMWWW-t	MT20	8.0	9.0		
O	BMV+p	MT20	3.0	6.0		
P	BVMWWW-l	MT20	8.0	12.0	4.50	4.50
R	BS-t	MT20	5.0	6.0		
U	BVMWW-l	MT20	6.0	12.0	4.00	7.50
V	BMV+p	MT20	3.0	6.0		
W	BMVW1-t	MT20	5.0	6.0		

NOTES- (1)

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

CONNECTION REQUIREMENTS

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

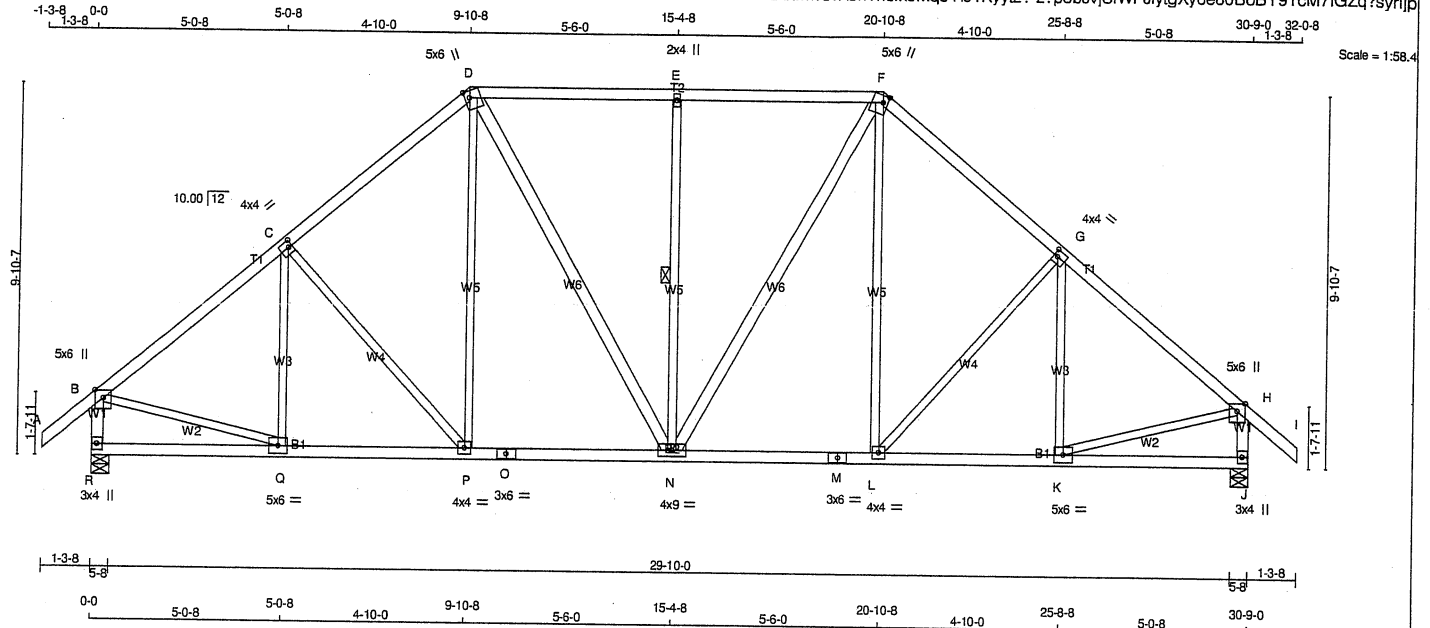


Structural component only
DWG# T-2126326 *in*

JOB NAME 420230	TRUSS NAME T5	QUANTITY 9	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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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 - I	2x4	DRY	No.2	SPF	
R - B	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	
R - O	2x4	DRY	No.2	SPF	
O - M	2x4	DRY	No.2	SPF	
M - J	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
D - N	2x4	DRY	No.2	SPF	
N - F	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	Edge	
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	TMWW-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	Edge	
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		

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG
R	1707	0	1707	0	0	5-8	5-8		
J	1707	0	1707	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1209	781 / 0	0 / 0	0 / 0	0 / 0	429 / 0	0 / 0
J	1209	781 / 0	0 / 0	0 / 0	0 / 0	429 / 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 = 4.90 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 (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 38	-84.9	-84.9 0.12 (1)	Q-C	-229 / 0	0.12 (1)	
B-C	-1619 / 0	-84.9	-84.9 0.31 (1)	C-P	-227 / 0	0.24 (1)	
C-D	-1489 / 0	-84.9	-84.9 0.30 (1)	P-D	0 / 264	0.06 (1)	
D-E	-1312 / 0	-84.9	-84.9 0.35 (1)	D-N	0 / 387	0.06 (1)	
E-F	-1312 / 0	-84.9	-84.9 0.35 (1)	N-E	-569 / 0	0.37 (1)	
F-G	-1489 / 0	-84.9	-84.9 0.30 (1)	N-F	0 / 387	0.06 (1)	
G-H	-1619 / 0	-84.9	-84.9 0.31 (1)	L-F	0 / 264	0.06 (1)	
H-I	0 / 38	-84.9	-84.9 0.12 (1)	L-G	-227 / 0	0.24 (1)	
R-B	-1667 / 0	0.0	0.0 0.18 (1)	K-G	-229 / 0	0.12 (1)	
J-H	-1667 / 0	0.0	0.0 0.18 (1)	B-Q	0 / 1310	0.29 (1)	
				K-H	0 / 1310	0.29 (1)	
R-Q	0 / 0	-18.5	-18.5 0.10 (4)				
Q-P	0 / 1268	-18.5	-18.5 0.26 (1)				
P-O	0 / 1119	-18.5	-18.5 0.24 (1)				
O-N	0 / 1119	-18.5	-18.5 0.24 (1)				
N-M	0 / 1119	-18.5	-18.5 0.24 (1)				
M-L	0 / 1119	-18.5	-18.5 0.24 (1)				
L-K	0 / 1268	-18.5	-18.5 0.26 (1)				
K-J	0 / 0	-18.5	-18.5 0.10 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.35/1.00 (D-E:1), BC=0.26/1.00 (P-Q:1), WB=0.37/1.00 (E-N:1), SSI=0.23/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

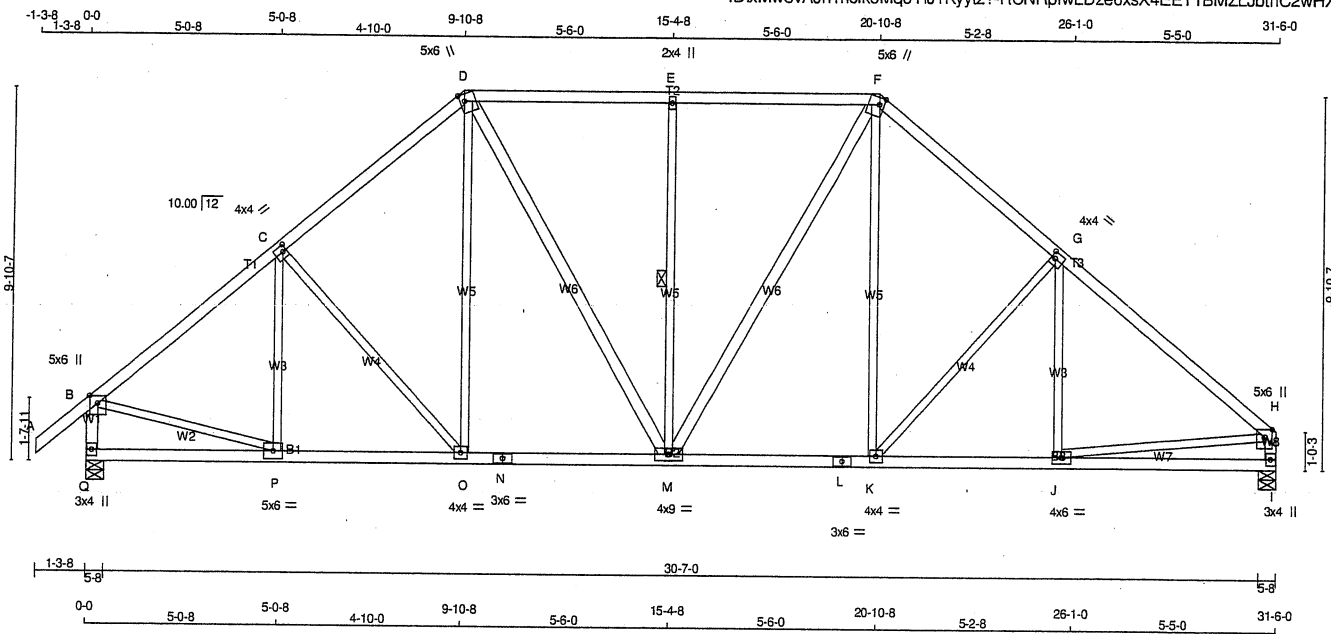
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (B) (INPUT = 0.90)
JSI METAL= 0.61 (H) (INPUT = 1.00)



Structural component only
DWG# T-2126299



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	6.0	Edge	
C TMVW-t	MT20	4.0	4.0	2.00	1.25
D TTWW+m	MT20	5.0	6.0	2.25	1.50
E TMVW-w	MT20	2.0	4.0		
F TTWW+m	MT20	5.0	6.0	2.25	1.50
G TMVW-t	MT20	4.0	4.0	2.00	1.25
H TMVW+p	MT20	5.0	6.0	2.50	2.25
I BMV1+p	MT20	3.0	4.0		
J BMVW-t	MT20	4.0	6.0		
K BMVW-t	MT20	4.0	4.0		
L BS-t	MT20	3.0	6.0		
M BMVWW-t	MT20	4.0	9.0		
N BS-t	MT20	3.0	6.0		
O BMVW-t	MT20	4.0	4.0		
P BMVW-t	MT20	5.0	6.0		
Q 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 IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	UPLIFT		
Q	1745	0	1745	0	5-8	5-8
I	1628	0	1628	0	5-8	5-8

UNFACTORED REACTIONS									
1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
Q	1237	798 / 0	0 / 0	0 / 0	0 / 0	439 / 0	0 / 0		
I	1156	734 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0		

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.51 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-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 / 38	-84.9 -84.9	0.12 (1)	10.00	P-C	-238 / 0	0.13 (1)		
B-C	-1665 / 0	-84.9 -84.9	0.32 (1)	4.84	C-O	-220 / 0	0.24 (1)		
C-D	-1542 / 0	-84.9 -84.9	0.30 (1)	5.00	O-D	0 / 258	0.06 (1)		
D-E	-1375 / 0	-84.9 -84.9	0.35 (1)	5.14	D-M	0 / 432	0.07 (1)		
E-F	-1375 / 0	-84.9 -84.9	0.35 (1)	5.14	M-E	-568 / 0	0.37 (1)		
F-G	-1604 / 0	-84.9 -84.9	0.36 (1)	4.85	M-F	0 / 343	0.06 (1)		
G-H	-1866 / 0	-84.9 -84.9	0.43 (1)	4.51	K-F	0 / 381	0.09 (1)		
Q-B	-1706 / 0	0.0 0.0	0.18 (1)	6.36	K-G	-388 / 0	0.42 (1)		
I-H	-1582 / 0	0.0 0.0	0.16 (1)	6.56	J-G	-63 / 64	0.03 (1)		
					B-P	0 / 1346	0.30 (1)		
					J-H	0 / 1469	0.33 (1)		
Q-P	0 / 0	-18.5 -18.5	0.10 (4)	10.00					
P-O	0 / 1303	-18.5 -18.5	0.26 (1)	10.00					
O-N	0 / 1159	-18.5 -18.5	0.25 (1)	10.00					
N-M	0 / 1159	-18.5 -18.5	0.25 (1)	10.00					
M-L	0 / 1204	-18.5 -18.5	0.26 (1)	10.00					
L-K	0 / 1204	-18.5 -18.5	0.26 (1)	10.00					
K-J	0 / 1459	-18.5 -18.5	0.29 (1)	10.00					
J-I	0 / 0	-18.5 -18.5	0.13 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.43/1.00 (G-H:1) , BC=0.29/1.00 (J-K:1) , WB=0.42/1.00 (G-K:1) , SS1=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

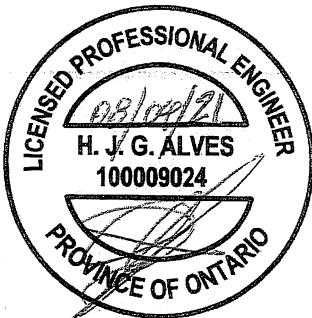
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

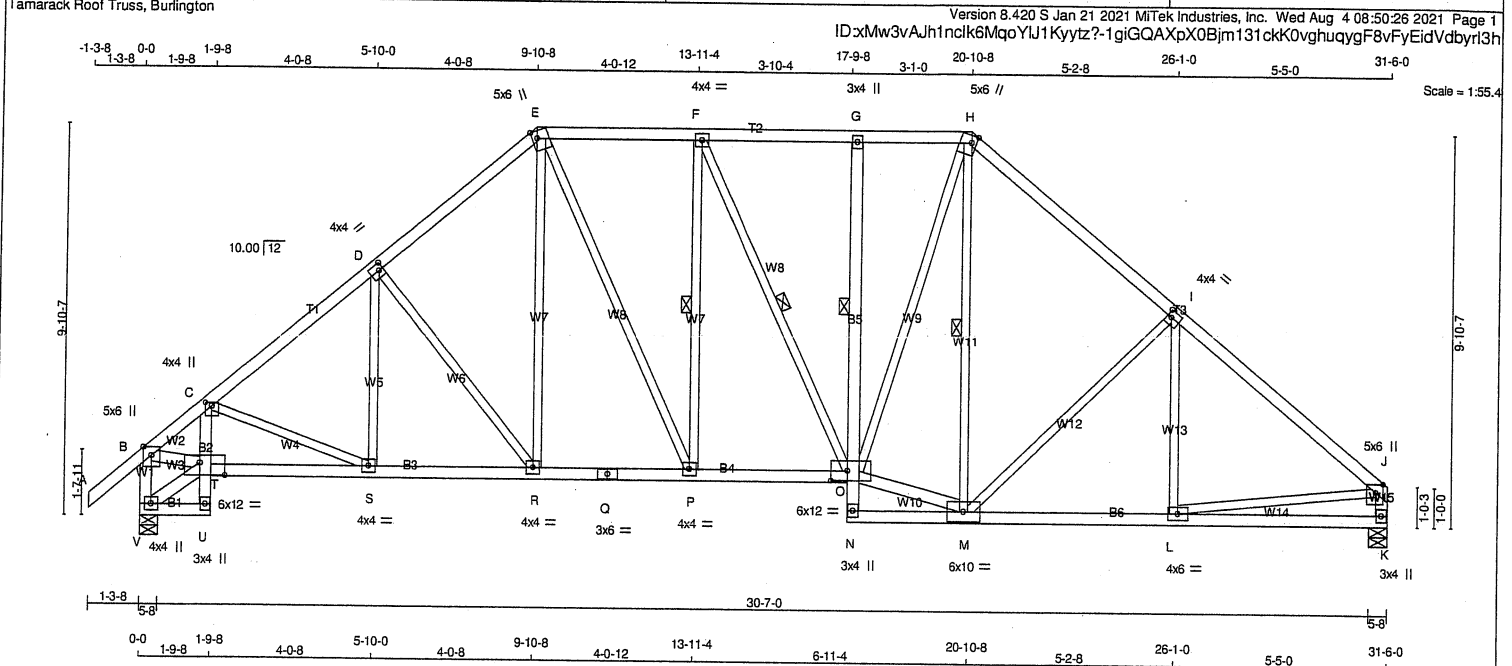
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)
JSI METAL= 0.62 (B) (INPUT = 1.00)



JOB NAME 420305	TRUSS NAME T5XS	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	5.0	6.0 Edge
C	TMVW+p	MT20	4.0	4.0 1.00 2.00
D	TMVW-t	MT20	4.0	4.0 2.00 1.25
E	TTVW+m	MT20	5.0	6.0 2.25 1.50
F	TMVW-t	MT20	4.0	4.0
G	TMV+p	MT20	3.0	4.0
H	TTVW+m	MT20	5.0	6.0 2.25 1.50
I	TMVW-t	MT20	4.0	4.0 2.00 1.25
J	TMVW+p	MT20	5.0	6.0 2.50 2.25
K	BMV1+p	MT20	3.0	4.0
L	BMVW-t	MT20	4.0	6.0
M	BMVWW-t	MT20	6.0	10.0
N	BMV+p	MT20	3.0	4.0
O	BYMVWVW-t	MT20	6.0	12.0 3.00 5.00
P, R, S				
P	BMVW-t	MT20	4.0	4.0
Q	BS-t	MT20	3.0	6.0
T	BYMVWVW-t	MT20	6.0	12.0 3.75 7.50
U	BMV+p	MT20	3.0	4.0
V	BMVW1+p	MT20	4.0	4.0

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
K	1625	0	1625	0	5-8
V	1748	0	1748	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	1154	732 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0
V	1239	799 / 0	0 / 0	0 / 0	0 / 0	439 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.54 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, H-M, F-O, F-P.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 38	C-S	-80 / 0
B-C	-2047 / 0	S-D	0 / 93
C-D	-1961 / 0	D-R	-379 / 0
D-E	-1698 / 0	R-E	0 / 370
E-F	-1489 / 0	O-M	0 / 1249
F-G	-1470 / 0	O-H	0 / 827
G-H	-1468 / 0	M-H	-52 / 37
H-I	-1801 / 0	M-I	-375 / 0
I-J	-1875 / 0	L-I	-78 / 59
V-B	-1702 / 0	L-J	0 / 1478
K-J	-1583 / 0	V-T	-55 / 0
		B-T	0 / 1574
		F-O	-45 / 0
		E-P	0 / 473
		P-F	-346 / 0
V-U	0 / 46		
U-T	0 / 17		
T-C	-134 / 0		
T-S	0 / 1594		
S-R	0 / 1519		
R-Q	0 / 1286		
Q-P	0 / 1286		
P-O	0 / 1489		
N-O	0 / 18		
O-G	-292 / 0		
N-M	0 / 19		
M-L	0 / 1465		
L-K	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.39/1.00 (I-J:1), BC=0.30/1.00 (S-T:1), WB=0.41/1.00 (I-M:1), SS=0.17/1.00 (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 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

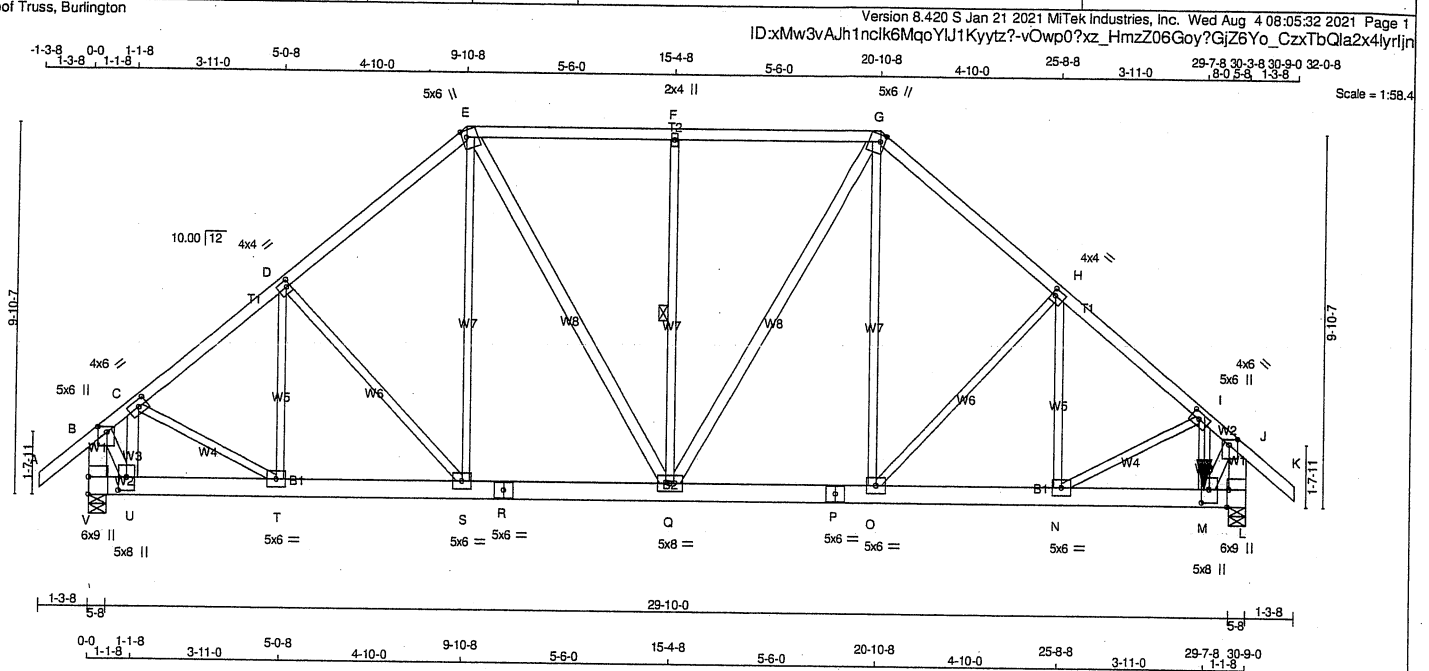
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (J) (INPUT = 0.90)
JSI METAL = 0.72 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126327

JOB NAME 420230	TRUSS NAME T6	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - K	2x4	DRY	No.2
V - B	2x6	DRY	No.2
L - J	2x6	DRY	No.2
V - R	2x6	DRY	No.2
R - P	2x6	DRY	No.2
P - L	2x6	DRY	No.2

ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
E - Q	2x4	DRY	No.2	SPF
Q - G	2x4	DRY	No.2	SPF
U - C	2x4	DRY	No.2	SPF
M - I	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
B - U	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-E	12	TOP
E-G	12	TOP
G-K	12	TOP
V-B	12	TOP
L-J	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V-R	4	TOP
R-P	12	TOP
P-L	4	SIDE(671.4)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	SIDE(768.1)
M-I	2	
2x4	1	
U-C	2	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	1909	0	0	5-8
V	HORZ	7023	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	1352
V	873 / 0
L	4976 3209 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.47 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 38	T-D	-237 / 0
B-C	-1177 / 0	D-S	-169 / 0
C-D	-1852 / 0	S-E	0 / 229
D-E	-1759 / 0	E-Q	0 / 619
E-F	-1642 / 0	Q-F	-568 / 0
F-G	-1642 / 0	Q-G	0 / 157
G-H	-2054 / 0	O-G	0 / 819
H-I	-2862 / 0	O-H	-996 / 0
I-J	-4405 / 0	N-H	0 / 822
J-K	0 / 38	C-T	0 / 636
V-B	-1903 / 0	N-I	-1278 / 0
L-J	-6664 / 0	U-C	-907 / 0
		M-I	0 / 1470
		M-J	0 / 4936
		B-U	0 / 1307

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
M	29-7-8	-3910	-3910	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.25/1.00 (E-F:1), BC=0.36/1.00 (M-N:1),
WB=0.52/1.00 (H-O:1), SS=0.12/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.77 (M) (INPUT = 1.00)



Structural component only
DWG# T-2126301

JOB NAME 420230	TRUSS NAME T6	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

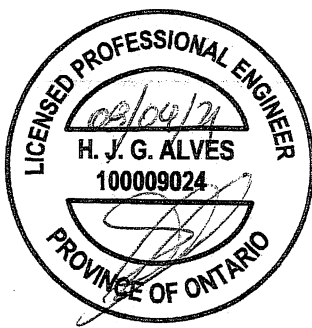
Version 8.420 S Jan 21 2021 Mittek Industries, Inc. Wed Aug 4 08:05:32 2021 Page 2
ID:xMw3vAJh1nclK6MqoYU1Kyytz?-vOwp0?xz HmzZ06Goy?GiZ6Yo CzxTbQla2x4lyrlin

PLATES (table is in inches)

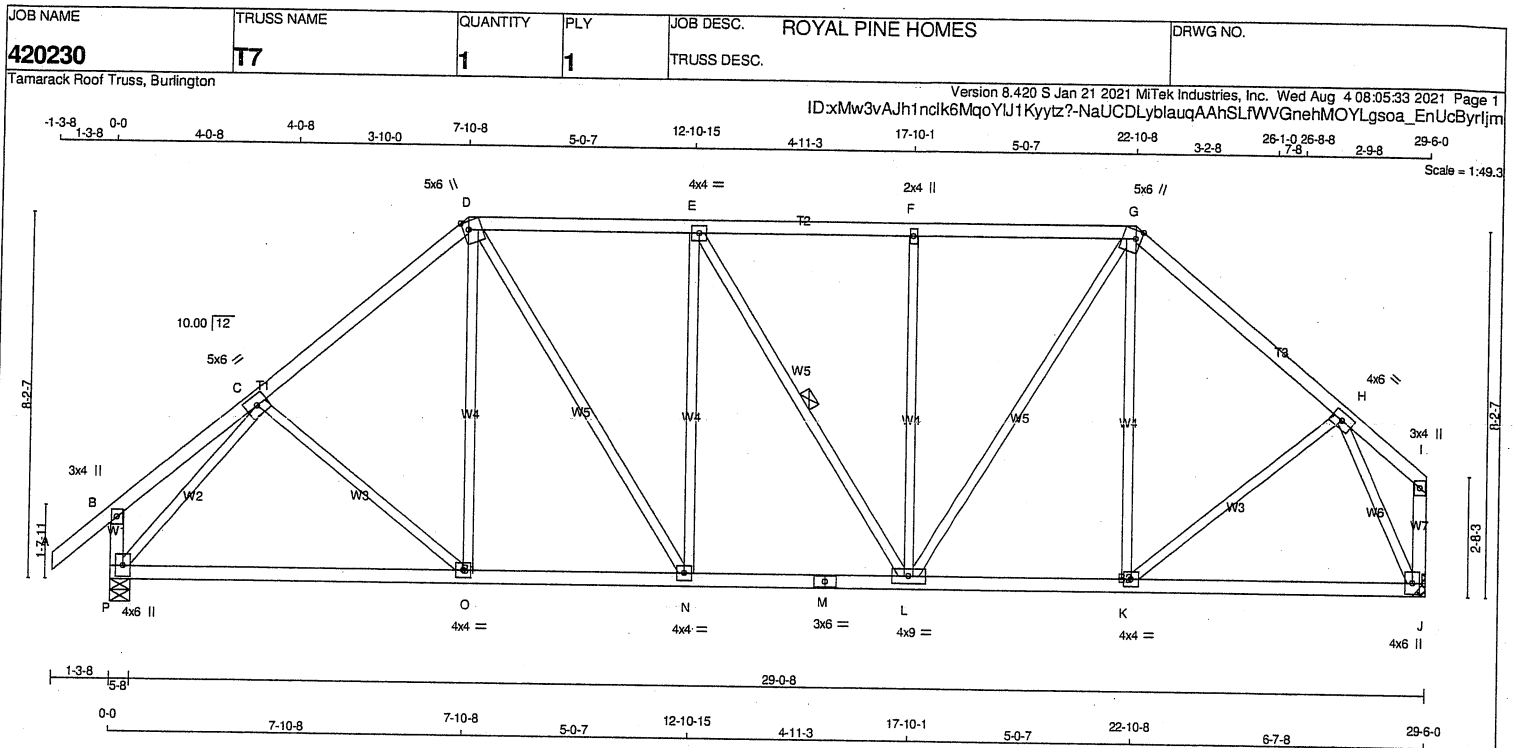
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	1.75	2.75
C	TMWW-t	MT20	4.0	6.0	2.00	2.75
D	TMWW-t	MT20	4.0	4.0	2.00	1.25
E	TTWW+m	MT20	5.0	6.0	2.25	1.50
F	TMW+w	MT20	2.0	4.0		
G	TTWW+m	MT20	5.0	6.0	2.25	1.50
H	TMWW-t	MT20	4.0	4.0	2.00	1.25
I	TMWW-t	MT20	4.0	6.0	2.00	2.75
J	TMVW+p	MT20	5.0	6.0	1.75	2.75
L	BMV1+t	MT20	6.0	9.0	Edge	0.50
M	BMWW+t	MT20	5.0	8.0	4.25	2.50
N, O, S, T						
N	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
Q	BMWWWW-t	MT20	5.0	8.0		
R	BS-t	MT20	5.0	6.0		
U	BMWW+t	MT20	5.0	8.0	4.25	2.50
V	BMV1+t	MT20	6.0	9.0	5.50	

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

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



Structural component only
DWG# T-2126301 *in*



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
P - B	2x4	DRY	No.2	SPF
J - I	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-t	MT20	5.0	6.0		
D	TTVW+m	MT20	5.0	6.0	2.25	1.50
E	TMVW-t	MT20	4.0	4.0		
F	TMVW+m	MT20	2.0	4.0		
G	TTVW+m	MT20	5.0	6.0	2.25	1.50
H	TMVW-t	MT20	4.0	6.0		
I	TMV+p	MT20	3.0	4.0		
J	BMVW1+p	MT20	4.0	6.0		
K, N, O						
K	BMVW-t	MT20	4.0	4.0		
L	BMVW-t	MT20	4.0	9.0		
M	BS-t	MT20	3.0	6.0		
P	BMVW1+p	MT20	4.0	6.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
P	1642	0	1642	0
J	1525	0	1525	0

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
P	1163 751 / 0 0 / 0 0 / 0 0 / 0 412 / 0 0 / 0
J	1082 687 / 0 0 / 0 0 / 0 0 / 0 395 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.07 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.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
FR-TO					FR-TO		
A-B	0 / 38	-84.9	-84.9	0.12 (1)	10.00	C-O	0 / 57
B-C	0 / 34	-84.9	-84.9	0.23 (1)	10.00	O-D	0 / 133
C-D	-1494 / 0	-84.9	-84.9	0.29 (1)	5.07	D-N	0 / 554
D-E	-1427 / 0	-84.9	-84.9	0.33 (1)	5.08	N-E	-393 / 0
E-F	-1387 / 0	-84.9	-84.9	0.33 (1)	5.13	E-L	-77 / 0
F-G	-1387 / 0	-84.9	-84.9	0.32 (1)	5.15	L-F	-455 / 0
G-H	-1333 / 0	-84.9	-84.9	0.28 (1)	5.31	L-G	0 / 713
H-I	0 / 55	-84.9	-84.9	0.23 (1)	10.00	K-G	-106 / 37
P-B	-197 / 0	0.0	0.0	0.02 (1)	7.81	K-H	0 / 375
J-I	0 / 6	0.0	0.0	0.00 (1)	7.81	P-C	-1772 / 0
						H-J	-1643 / 0
P-O	0 / 1107	-18.5	-18.5	0.34 (4)	10.00		
O-N	0 / 1129	-18.5	-18.5	0.35 (4)	10.00		
N-M	0 / 1428	-18.5	-18.5	0.28 (1)	10.00		
M-L	0 / 1428	-18.5	-18.5	0.28 (1)	10.00		
L-K	0 / 1003	-18.5	-18.5	0.27 (4)	10.00		
K-J	0 / 714	-18.5	-18.5	0.24 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.98")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.98")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.33/1.00 (D-E:1), BC=0.35/1.00 (N-O:4), WB=0.71/1.00 (C-P:1), SS=0.20/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

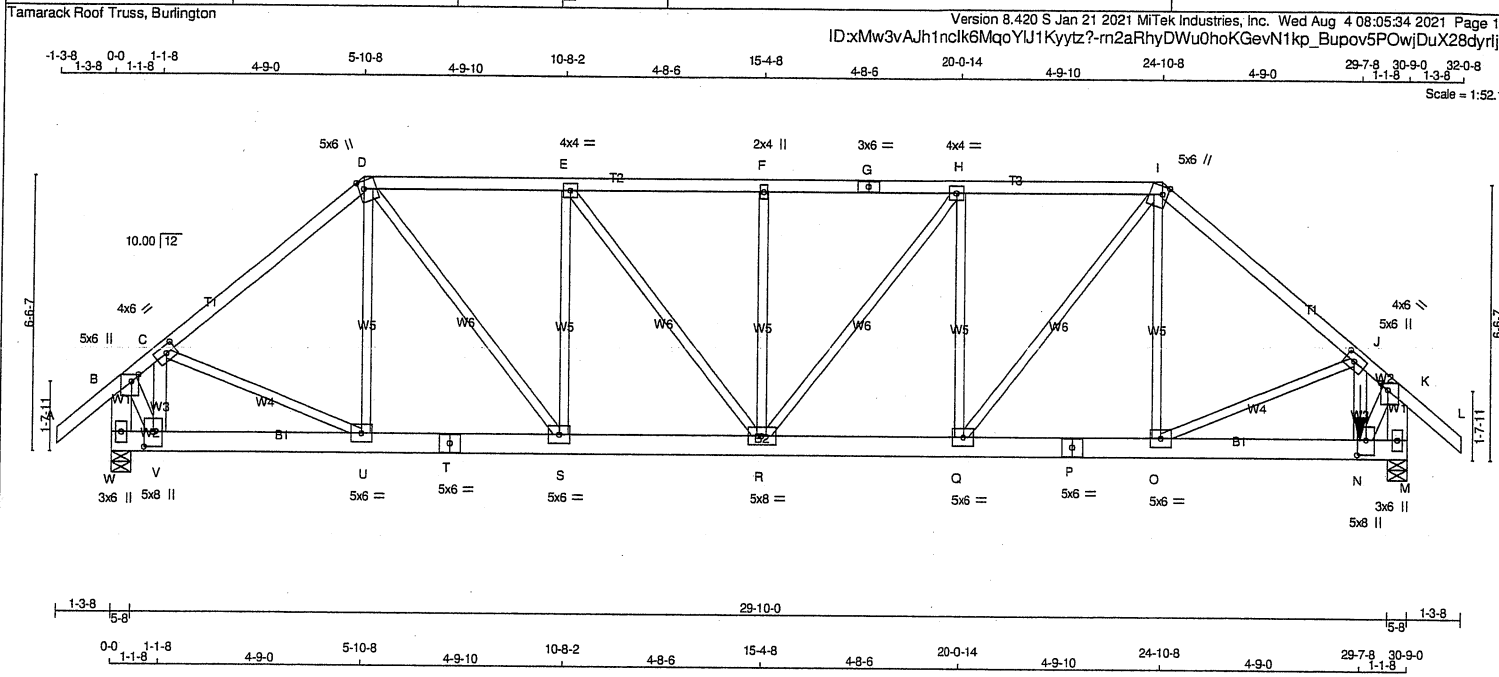
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (P) (INPUT = 0.90)
JSI METAL = 0.50 (P) (INPUT = 1.00)



Structural component only
DWG# T-2126302



LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										TOTAL WEIGHT = 2 X 166 = 331 lb									
N. L. G. A. RULES										BEARINGS										DESIGN CRITERIA									
CHORDS SIZE LUMBER DESCR.										UNFACTORED REACTIONS										SPECIFIED LOADS:									
A - D 2x4 DRY No.2 SPF										1ST LCASE MAX./MIN. COMPONENT REACTIONS										TOP CH. LL = 23.3 PSF									
D - G 2x4 DRY No.2 SPF										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										DL = 6.0 PSF									
G - I 2x4 DRY No.2 SPF										W 1333 861 / 0 0 / 0 0 / 0 0 / 0 473 / 0 0 / 0										BOT CH. LL = 0.0 PSF									
I - L 2x4 DRY No.2 SPF										M 4473 2886 / 0 0 / 0 0 / 0 0 / 0 1587 / 0 0 / 0										DL = 7.4 PSF									
W - B 2x6 DRY No.2 SPF										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) W, M										TOTAL LOAD = 36.7 PSF									
M - K 2x6 DRY No.2 SPF										BRACING										SPACING = 24.0 IN. C/C									
W - T 2x6 DRY No.2 SPF										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.62 FT.										LOADING IN FLAT SECTION BASED ON A SLOPE									
T - P 2x6 DRY No.2 SPF										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										OF 6.00/12									
P - M 2x6 DRY No.2 SPF										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR									
ALL WEBS 2x3 DRY No.2 SPF										LOADING										SMALL BUILDING REQUIREMENTS OF PART 9,									
EXCEPT										TOTAL LOAD CASES: (4)										NBC 2015									
N - J 2x4 DRY No.2 SPF										CHORDS										THIS DESIGN COMPLIES WITH:									
V - C 2x4 DRY No.2 SPF										MAX. FACTORED										- PART 9 OF BCBC 2018 , ABC 2019									
N - K 2x4 DRY No.2 SPF										MEMB. FORCE (LBS)										- PART 9 OF OBC 2012 (2019 AMENDMENT)									
B - V 2x4 DRY No.2 SPF										FR-TO										- CSA 086-14									
DRY: SEASONED LUMBER.										VERT. LOAD LC1 MAX										- TPIC 2014									
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:										FROM TO										DESIGN ASSUMPTIONS									
CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)										CSI (LC) UNBRAC LENGTH										-OVERHANG NOT TO BE ALTERED OR CUT OFF.									
TOP CHORDS : (0.122"x3") SPIRAL NAILS										MEMB. FORCE (LBS)										(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN									
A-D 1 12 TOP										FR-TO										LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF									
D-G 1 12 TOP										A-B 0 / 38										LIVE LOAD									
G-I 1 12 TOP										B-C -1159 / 0										ALLOWABLE DEFL.(LL)= L/360 (1.02")									
I-L 1 12 TOP										C-D -1843 / 0										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")									
W-B 2 12 TOP										D-E -2122 / 0										ALLOWABLE DEFL.(TL)= L/360 (1.02")									
M-K 2 12 TOP										E-F -2422 / 0										CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")									
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS										F-G -2422 / 0																			
W-T 2 5 TOP										G-H -2422 / 0																			
T-P 2 12 TOP										H-I -2387 / 0																			
P-M 2 5 SIDE(549.3)										I-J -2542 / 0																			
WEBS : (0.122"x3") SPIRAL NAILS										J-K -3968 / 0																			
2x3 1 6										K-L 0 / 38																			
N-J 2 2 SIDE(697.7)										W-B -1869 / 0																			
2x4 2 2										M-K -6013 / 0																			
K-N 1 6										W-V 0 / 0																			
B-V 1 6										V-U 0 / 933																			
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.										U-T 0 / 1393																			
										T-S 0 / 1393																			
										S-R 0 / 2122																			
										R-Q 0 / 2387																			
										Q-P 0 / 1946																			
										P-O 0 / 1946																			
										O-N 0 / 3075																			
										N-M 0 / 0																			
										SPECIFIED CONCENTRATED LOADS (LBS)																			
										JT LOC. LC1 MAX+ FACE DIR. TYPE HEEL CONN.																			
										N 29-7-8 -3387 -3387 -- FRONT VERT TOTAL -- C1																			
										CONNECTION REQUIREMENTS																			
										1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.																			



JOB NAME 420230	TRUSS NAME T8	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 08:05:34 2021 Page 2
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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	2.00
C	TMWW-t	MT20	4.0	6.0	2.00	2.75
D	TTWW+m	MT20	5.0	6.0	2.25	1.50
E	TMWW-t	MT20	4.0	4.0		
F	TMW+w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMWW-t	MT20	4.0	4.0		
I	TTWW+m	MT20	5.0	6.0	2.25	1.50
J	TMWW-t	MT20	4.0	6.0	2.00	2.75
K	TMVW+p	MT20	5.0	6.0	2.00	2.00
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	8.0	4.25	2.50
O, Q, S, U						
O	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
R	BMWWW-t	MT20	5.0	8.0		
T	BS-t	MT20	5.0	6.0		
V	BMWW-t	MT20	5.0	8.0	4.25	2.50
W	BMV1+p	MT20	3.0	6.0		

NOTES (1)

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

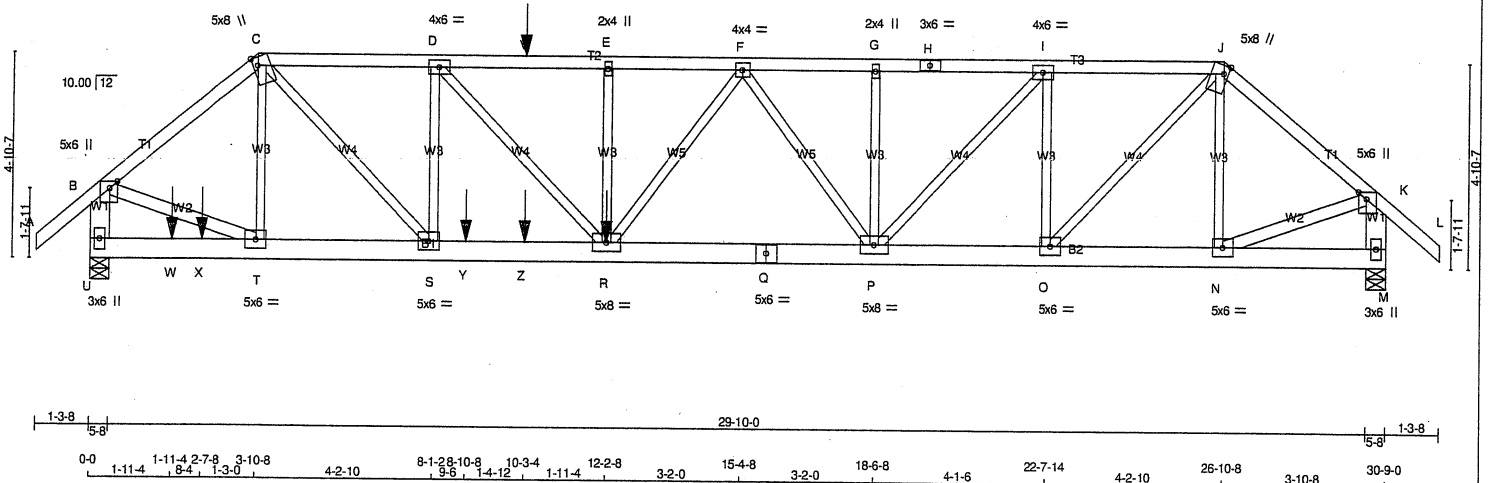


Structural component only
DWG# T-2126303 *in*

JOB NAME 420230	TRUSS NAME T9	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 08:05:35 2021 Page 1
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Scale = 1:52.1



TOTAL WEIGHT = 2 X 157 = 313 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2 SPF
C - H	2x4	DRY	No.2 SPF
H - J	2x4	DRY	No.2 SPF
J - L	2x4	DRY	No.2 SPF
U - B	2x6	DRY	No.2 SPF
M - K	2x6	DRY	No.2 SPF
U - Q	2x6	DRY	No.2 SPF
Q - M	2x6	DRY	No.2 SPF
ALL WEBS EXCEPT	2x3	DRY	No.2 SPF
B - T	2x4	DRY	No.2 SPF
N - K	2x4	DRY	No.2 SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	TOP
C-H	12	TOP
H-J	12	TOP
J-L	12	TOP
U-B	12	TOP
M-K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
U-Q	12	SIDE (183.1)
Q-M	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
R-E	6	SIDE (222.6)
2x3	1	
2x4	1	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	3408	3408	5-8	5-8
U	HORZ	0	0	5-8	5-8
M	DOWN	2485	2485	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	2409	1586 / 0	0 / 0	0 / 0	0 / 0	823 / 0	0 / 0
M	1758	1147 / 0	0 / 0	0 / 0	0 / 0	611 / 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 = 3.85 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS		MAX. FACTORED	FACTORED	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRACED LENGTH	MEMB.	FORCE (LBS)	LC1 MAX (LC)	UNBRACED LENGTH	MEMB.
FR-TO					FR-TO				
A-B	0 / 38	-84.9	-84.9 0.06 (1)	10.00	T-C	-299 / 0	0.05 (1)		
B-C	-3338 / 0	-84.9	-84.9 0.18 (1)	4.96	N-J	-477 / 0	0.08 (1)		
C-D	-4547 / 0	-84.9	-84.9 0.22 (1)	4.33	B-T	0 / 2675	0.24 (1)		
D-V	-5816 / 0	-84.9	-84.9 0.27 (1)	3.85	N-K	0 / 1990	0.18 (1)		
V-E	-5816 / 0	-84.9	-84.9 0.27 (1)	3.85	R-E	-332 / 0	0.06 (1)		
E-F	-5816 / 0	-84.9	-84.9 0.18 (1)	3.93	P-G	-291 / 0	0.05 (1)		
F-G	-4725 / 0	-84.9	-84.9 0.13 (1)	4.35	D-R	0 / 1880	0.23 (1)		
G-H	-4725 / 0	-84.9	-84.9 0.21 (1)	4.27	C-S	0 / 2910	0.36 (1)		
H-I	-4725 / 0	-84.9	-84.9 0.21 (1)	4.27	S-D	-1817 / 0	0.31 (1)		
I-J	-3537 / 0	-84.9	-84.9 0.17 (1)	4.85	R-F	0 / 787	0.10 (1)		
J-K	-2483 / 0	-84.9	-84.9 0.15 (1)	5.58	F-P	-1108 / 0	0.28 (1)		
K-L	0 / 38	-84.9	-84.9 0.06 (1)	10.00	O-J	0 / 2399	0.30 (1)		
U-B	-3213 / 0	0.0	0.0 0.12 (1)	7.72	P-I	0 / 1760	0.22 (1)		
M-K	-2462 / 0	0.0	0.0 0.09 (1)	7.81	O-I	-1687 / 0	0.29 (1)		
U-W	0 / 0	-18.5	-18.5 0.13 (1)	10.00					
W-X	0 / 0	-18.5	-18.5 0.13 (1)	10.00					
X-T	0 / 0	-18.5	-18.5 0.13 (1)	10.00					
T-S	0 / 2550	-18.5	-18.5 0.25 (1)	10.00					
S-Y	0 / 4547	-18.5	-18.5 0.38 (1)	10.00					
Y-Z	0 / 4547	-18.5	-18.5 0.38 (1)	10.00					
Z-R	0 / 4547	-18.5	-18.5 0.38 (1)	10.00					
R-Q	0 / 5363	-18.5	-18.5 0.40 (1)	10.00					
Q-P	0 / 5363	-18.5	-18.5 0.40 (1)	10.00					
P-O	0 / 3537	-18.5	-18.5 0.25 (1)	10.00					
O-N	0 / 1891	-18.5	-18.5 0.14 (1)	10.00					
N-M	0 / 0	-18.5	-18.5 0.02 (4)	10.00					

SPECIFIED CONCENTRATED LOADS (LBS)		LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
JT	12-2-8	-1097	-1097	---	---	BACK	VERT.	TOTAL	---	C1
V	10-3-4	-55	-55	---	---	BACK	VERT.	TOTAL	---	C1
W	1-11-4	-149	-149	---	---	BACK	VERT.	TOTAL	---	C1
X	2-7-8	-217	-217	---	---	BACK	VERT.	TOTAL	---	C1
Y	8-10-8	-217	-217	---	---	BACK	VERT.	TOTAL	---	C1
Z	10-3-4	-14	-14	---	---	BACK	VERT.	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.27/1.00 (D-E:1), BC=0.40/1.00 (P-R:1),
WB=0.36/1.00 (C-S:1), SS=0.13/1.00 (T-U: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 = 0.89 (J) (INPUT = 0.90)
JSI METAL = 0.51 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2126304

CONTINUED ON PAGE 2

JOB NAME 420230	TRUSS NAME T9	QUANTITY 1	PLY 2	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
B	TMVW+p	MT20	5.0	6.0	2.00	2.25
C	TTWW+m	MT20	5.0	8.0	Edge	1.25
D	TMWW-t	MT20	4.0	6.0		
E	TMW+w	MT20	2.0	4.0		
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	4.0	6.0		
J	TTWW+m	MT20	5.0	8.0	Edge	1.25
K	TMVW+p	MT20	5.0	6.0	2.00	2.25
M	BMV1+p	MT20	3.0	6.0		
N, O, S, T						
N	BMWW-t	MT20	5.0	6.0		
P	BMWWWW-t	MT20	5.0	8.0		
Q	BS-t	MT20	5.0	6.0		
R	BMWWWW-t	MT20	5.0	8.0		
U	BMV1+p	MT20	3.0	6.0		

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

NOTES: (1)

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

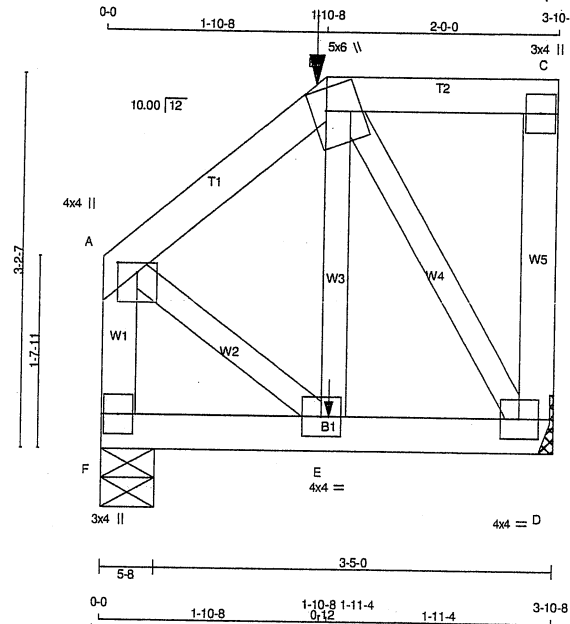


Structural component only
DWG# T-2126304 *mm*

JOB NAME 420230	TRUSS NAME T10	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. Wed Aug 4 08:05:36 2021 Page 1
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Scale = 1:18.8

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TTWW+m	MT20	5.0	6.0	2.25	1.50
C	TMV+p	MT20	3.0	4.0		
D	BMVW1-t	MT20	4.0	4.0		
E	BMVW1-t	MT20	4.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES: (1)

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
D	232	0	232	0	0	MECHANICAL		
F	234	0	234	0	0	5-8	5-8	

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	WIND			
D	164	107/0	0/0	0/0	0/0	56/0	0/0
F	165	109/0	0/0	0/0	0/0	57/0	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: (7)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
FR-TO				
A-B	-120/0	-84.9	0.06 (1)	6.25
B-C	0/0	-84.9	0.06 (1)	10.00
D-C	-85/0	0.0	0.01 (1)	7.81
F-A	-217/0	0.0	0.03 (1)	7.81
F-E	0/0	-18.5	-18.5 0.02 (4)	10.00
E-D	0/91	-18.5	-18.5 0.03 (1)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	1-10-8	-45	-45	70	FRONT	VERT	TOTAL	---	C1
E	1-11-4	1	1	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 20 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.06/1.00 (B-C:1), BC=0.03/1.00 (D-E:1),

WB=0.04/1.00 (B-D:1), SSI=0.07/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

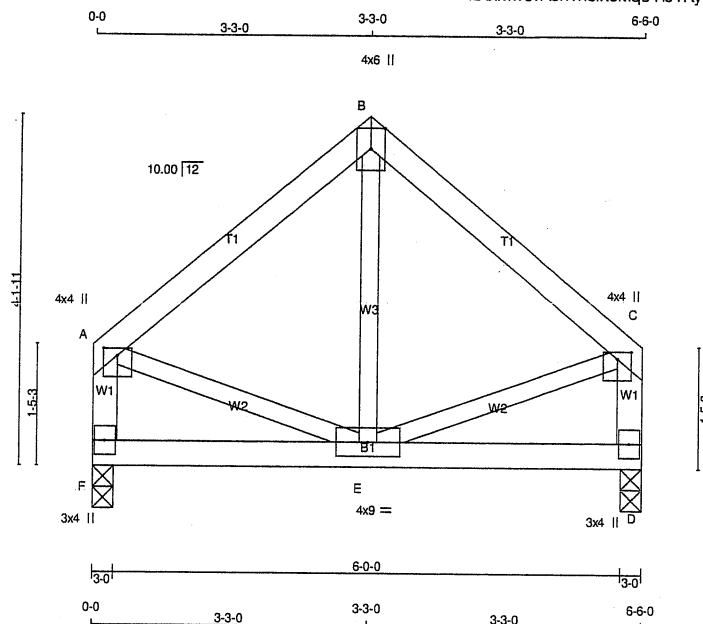
JSI GRIP= 0.16 (A) (INPUT = 0.90)
JSI METAL= 0.04 (A) (INPUT = 1.00)



Structural component only
DWG# T-2126305

JOB NAME 420230	TRUSS NAME T11	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:26.0

TOTAL WEIGHT = 2 X 28 = 55 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TTW+p	MT20	4.0	6.0	Edge	
C	TMVW+p	MT20	4.0	4.0	1.00	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

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

NOTES- (1)

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
F	336	0	336	0	0	3-0	3-0	
D	336	0	336	0	0	3-0	3-0	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
F	238	151 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0
D	238	151 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
A-B	-194 / 0	-84.9 -84.9 0.11 (1)	6.25	-28 / 43
B-C	-194 / 0	-84.9 -84.9 0.11 (1)	6.25	0 / 157
F-A	-312 / 0	0.0 0.0 0.03 (1)	7.81	0 / 157
D-C	-312 / 0	0.0 0.0 0.03 (1)	7.81	
F-E	0 / 0	-18.5 -18.5 0.05 (4)	10.00	
E-D	0 / 0	-18.5 -18.5 0.05 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.11/1.00 (A-B:1), BC=0.05/1.00 (E-F:4),
WB=0.04/1.00 (A-E:1), SS=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

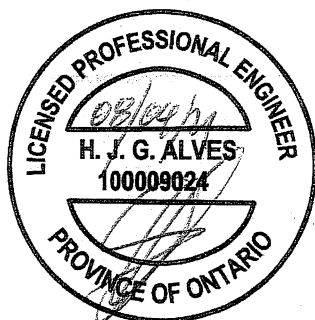
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX MIN
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (A) (INPUT = 0.90)

JSI METAL= 0.07 (A) (INPUT = 1.00)

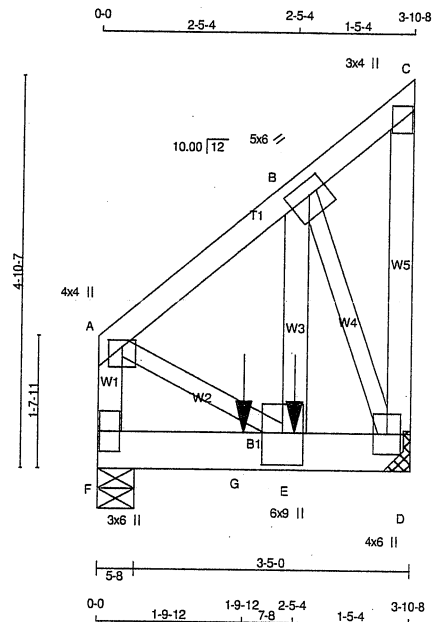


Structural component only
DWG# T-2126306

JOB NAME 420230	TRUSS NAME T12	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:27.3

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - C	2x4	DRY	No.2	SPF
D - C	2x4	DRY	No.2	SPF
F - A	2x4	DRY	No.2	SPF
F - D	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
E - B	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 1	12	TOP
C - D 1	12	TOP
F - A 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	
E - B 1	4	SIDE(354.0)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
A	TMVW+p	MT20	4.0	4.0 1.00 2.00

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT	1574	0	1574	0	0	MECHANICAL	5-8	
D	1053	0	1053	0	0	5-8		

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	
D	1112	736 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0	
F	743	494 / 0	0 / 0	0 / 0	0 / 0	249 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS		MEMB.	MAX. FACTORED		MAX. FACTORED	MAX. FACTORED
	FORCE (LBS)	VERT. LOAD (PLF)	FORCE (LBS)	VERT. LOAD (PLF)		FORCE (LBS)	VERT. LOAD (PLF)	FORCE (LBS)	VERT. LOAD (PLF)
FR-TO		FROM TO		FROM TO					
A-B	-774 / 0	-84.9	-84.9	0.04 (1)	E-B	0 / 1665	0.15 (1)		
B-C	-10 / 0	-84.9	-84.9	0.02 (1)	A-E	0 / 670	0.08 (1)		
D-C	-45 / 0	0.0	0.0	0.01 (1)	B-D	-1482 / 0	0.18 (1)		
F-A	-894 / 0	0.0	0.0	0.05 (1)					
F-G	0 / 0	-18.5	-18.5	0.10 (1)					
G-E	0 / 0	-18.5	-18.5	0.10 (1)					
E-D	0 / 599	-18.5	-18.5	0.12 (1)					

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	2-5-4	-1455	-1455	---	BACK	VERT	TOTAL	---	C1
G	1-9-12	-115	-115	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.05/1.00 (A-F:1), BC=0.12/1.00 (D-E:1),
WB=0.18/1.00 (B-D:1), SS=0.06/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.49 (B) (INPUT = 0.90)
JSI METAL= 0.22 (E) (INPUT = 1.00)



Structural component only
DWG# T-2126307

CONTINUED ON PAGE 2

JOB NAME 420230	TRUSS NAME T12	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 08:05:38 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	5.0	6.0	2.00	2.75
C	TMV+p	MT20	3.0	4.0		
D	BMVW1+p	MT20	4.0	6.0		
E	BMW-t	MT20	6.0	9.0	4.75	3.00
F	BMV1+p	MT20	3.0	6.0		

NOTES- (1)

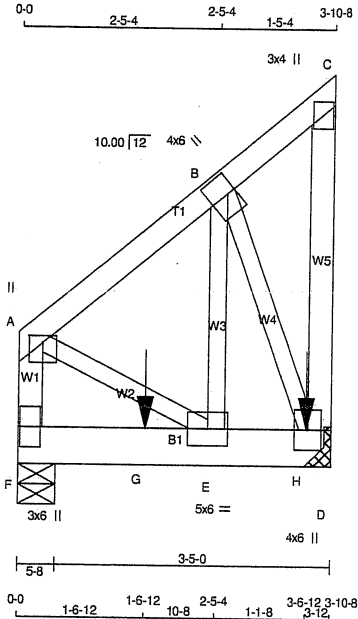
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2126307

JOB NAME 420230	TRUSS NAME T12Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 08:05:39 2021 Page 1
ID:xMw3vAJh1nck6MqoYIJ1Kyytz?-CkrTU00MKQezu58ciwdvW2uoUpG4lgSM9Eprryrljg



Scale = 1:27.3

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A	12	TOP
A - C	12	TOP
C - D	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D	12	SIDE (122.0)
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	Y X
A	TMVW+p	MT20	4.0	4.0 1.00 2.00
B	TMVW+t	MT20	4.0	6.0 3.00 1.25
C	TMV+p	MT20	3.0	4.0
D	BMVW1+p	MT20	4.0	6.0
E	BMVW-t	MT20	5.0	6.0

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	HORZ	DOWN	UP	IN-SX
F	433	0	433	0	5-8
D	660	0	660	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
F	306	201 / 0	0 / 0	0 / 0	106 / 0	0 / 0
D	467	306 / 0	0 / 0	0 / 0	161 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX	LC1 (LBS)
FR-TO		FROM	TO	FR-TO			
F - A	-309 / 0	0.0	0.0 0.02 (1)	E - B	0 / 306	0.04 (1)	
A - B	-206 / 0	-84.9	-84.9 0.03 (1)	A - E	0 / 186	0.02 (1)	
B - C	-18 / 0	-84.9	-84.9 0.03 (1)	B - D	-412 / 0	0.05 (1)	
D - C	-33 / 0	0.0	0.0 0.01 (1)				
F - G	0 / 0	-18.5	-18.5 0.06 (1)				
G - E	0 / 0	-18.5	-18.5 0.06 (1)				
E - H	0 / 167	-18.5	-18.5 0.04 (1)				
H - D	0 / 167	-18.5	-18.5 0.04 (1)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	1-6-12	-242	-242	---	FRONT	VERT	TOTAL	---	C1
H	3-6-12	-247	-247	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 26 = 51 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.03/1.00 (A-B:1), BC=0.06/1.00 (E-F:1), WB=0.05/1.00 (B-D:1), SSI=0.09/1.00 (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
(PS)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	650	371	1747
		788	1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.04 (D) (INPUT = 1.00)



Structural component only
DWG# T-2126308 112

JOB NAME 420230	TRUSS NAME T12Z	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Wed Aug 4 08:05:39 2021 Page 2
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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.

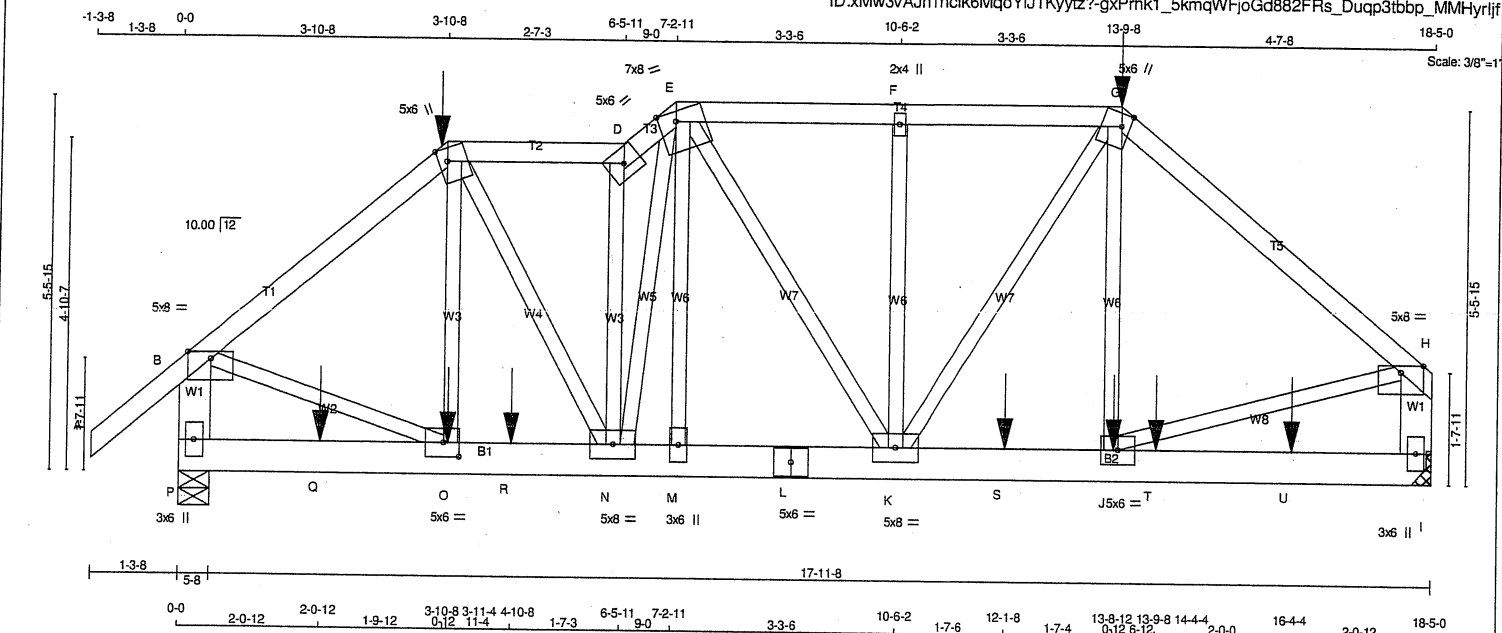


Structural component only
DWG# T-2126308 *me*

JOB NAME 420230	TRUSS NAME T13S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
P - B	2x6	DRY	No.2
I - H	2x6	DRY	No.2
P - L	2x6	DRY	No.2
L - I	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y
B	TMW-p	MT20	5.0	8.0	Edge
C	TTWW+m	MT20	5.0	6.0	2.25 1.50
D	TTW-h	MT20	5.0	6.0	
E	TTWW-m	MT20	7.0	8.0	Edge 3.00
F	TMW+w	MT20	2.0	4.0	
G	TTWW+m	MT20	5.0	6.0	2.25 1.50
H	TMW-p	MT20	5.0	8.0	Edge
I	BMV1+p	MT20	3.0	6.0	
J	BMWV-t	MT20	5.0	6.0	
K	BMWVW-t	MT20	5.0	8.0	
L	BS-t	MT20	5.0	6.0	
M	BMW+w	MT20	3.0	6.0	
N	BMWVW-t	MT20	5.0	8.0	
O	BMWV-t	MT20	5.0	6.0	2.50 2.75
P	BMV1+p	MT20	3.0	6.0	

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
P	2165	0	2165	0	0	5-8	5-8		
I	2077	0	2077	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	MAX./MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1529	1014 / 0	0 / 0	0 / 0	0 / 0	514 / 0	0 / 0
I	1470	959 / 0	0 / 0	0 / 0	0 / 0	511 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.07 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)	MAX. FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 38	-84.9	-84.9 0.13 (1)	10.00	C-O	0 / 154	0.05 (4)
B-C	-2129 / 0	-84.9	-84.9 0.34 (1)	4.30	C-N	0 / 766	0.19 (1)
C-D	-2008 / 0	-84.9	-84.9 0.16 (1)	4.60	N-D	-1852 / 0	0.63 (1)
D-E	-2670 / 0	-84.9	-84.9 0.10 (1)	4.15	N-E	0 / 1034	0.26 (1)
E-F	-2020 / 0	-84.9	-84.9 0.20 (1)	4.54	M-E	0 / 326	0.08 (1)
F-G	-2020 / 0	-84.9	-84.9 0.20 (1)	4.54	E-K	0 / 247	0.06 (1)
G-H	-2203 / 0	-84.9	-84.9 0.50 (1)	4.07	K-F	-308 / 0	0.13 (1)
P-B	-2151 / 0	0.0	0.0 0.16 (1)	6.90	K-G	0 / 609	0.15 (1)
I-H	-2048 / 0	0.0	0.0 0.15 (1)	7.03	J-G	0 / 149	0.06 (4)
					B-O	0 / 1706	0.42 (1)
					J-H	0 / 1744	0.43 (1)
P-Q	0 / 0	-18.5	-18.5 0.09 (1)	10.00			
Q-O	0 / 0	-18.5	-18.5 0.09 (1)	10.00			
O-R	0 / 1635	-18.5	-18.5 0.48 (1)	10.00			
R-N	0 / 1635	-18.5	-18.5 0.48 (1)	10.00			
N-M	0 / 1880	-18.5	-18.5 0.39 (1)	10.00			
M-L	0 / 1887	-18.5	-18.5 0.33 (1)	10.00			
L-K	0 / 1887	-18.5	-18.5 0.33 (1)	10.00			
K-S	0 / 1691	-18.5	-18.5 0.55 (1)	10.00			
S-J	0 / 1691	-18.5	-18.5 0.55 (1)	10.00			
J-T	0 / 0	-18.5	-18.5 0.12 (1)	10.00			
T-U	0 / 0	-18.5	-18.5 0.12 (1)	10.00			
U-I	0 / 0	-18.5	-18.5 0.12 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-10-8	-188	-188	---	FRONT	VERT	TOTAL	---	C1
G	13-9-8	-331	-331	---	FRONT	VERT	TOTAL	---	C1
J	13-8-12	-19	-19	---	FRONT	VERT	TOTAL	---	C1
O	3-11-4	-14	-14	---	FRONT	VERT	TOTAL	---	C1
Q	2-0-12	-14	-14	---	FRONT	VERT	TOTAL	---	C1
R	4-10-8	-452	-452	---	FRONT	VERT	TOTAL	---	C1
S	12-1-8	-506	-506	---	FRONT	VERT	TOTAL	---	C1
T	14-4-4	-19	-19	---	FRONT	VERT	TOTAL	---	C1
U	16-4-4	-22	-22	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCS 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.61")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.61")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.50/1.00 (G-H:1), BC=0.55/1.00 (J-K:1),
WB=0.63/1.00 (D-N:1), SSI=0.37/1.00 (N-O:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (D) (INPUT = 0.90)
JSI METAL = 0.52 (D) (INPUT = 1.00)



Structural component only
DWG# T-2126309

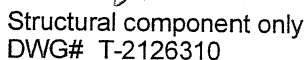


TOTAL WEIGHT = $2 \times 25 = 51$ lb

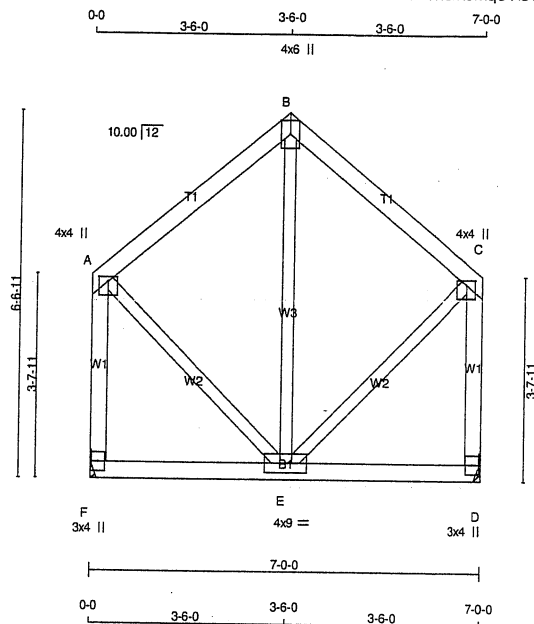
JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TMV+p	MT20	3.0	4.0		
C	BMVW1+p	MT20	4.0	6.0		
D	BMV1+p	MT20	3.0	6.0		

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

JSI GRIP= 0.07 (A) (INPUT = 0.90)
JSI METAL= 0.03 (B) (INPUT = 1.00)



JOB NAME 420230	TRUSS NAME T15	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



Scale = 1:39.3

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TTW+p	MT20	4.0	6.0	Edge	
C	TMVW+p	MT20	4.0	4.0	1.00	2.00
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

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

NOTES-

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	362 0	362 0	0 0	MECHANICAL
D	362 0	362 0	0 0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	257	163 / 0	0 / 0	0 / 0	0 / 0	0 / 0	94 / 0	0 / 0
D	257	163 / 0	0 / 0	0 / 0	0 / 0	0 / 0	94 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO			
A-B	-138 / 0	-84.9	-84.9	0.13 (1)	6.25	E-B	-121 / 11	0.08 (1)	
B-C	-138 / 0	-84.9	-84.9	0.13 (1)	6.25	A-E	0 / 146	0.03 (1)	
F-A	-337 / 0	0.0	0.0	0.07 (1)	7.81	E-C	0 / 146	0.03 (1)	
D-C	-337 / 0	0.0	0.0	0.07 (1)	7.81				
F-E	0 / 0	-18.5	-18.5	0.06 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.06 (4)	10.00				

TOTAL WEIGHT = 2 X 38 = 77 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.00")

CSI: TC=0.13/1.00 (B-C:1), BC=0.06/1.00 (E-F:4), WB=0.08/1.00 (B-E:1), SSI=0.09/1.00 (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.

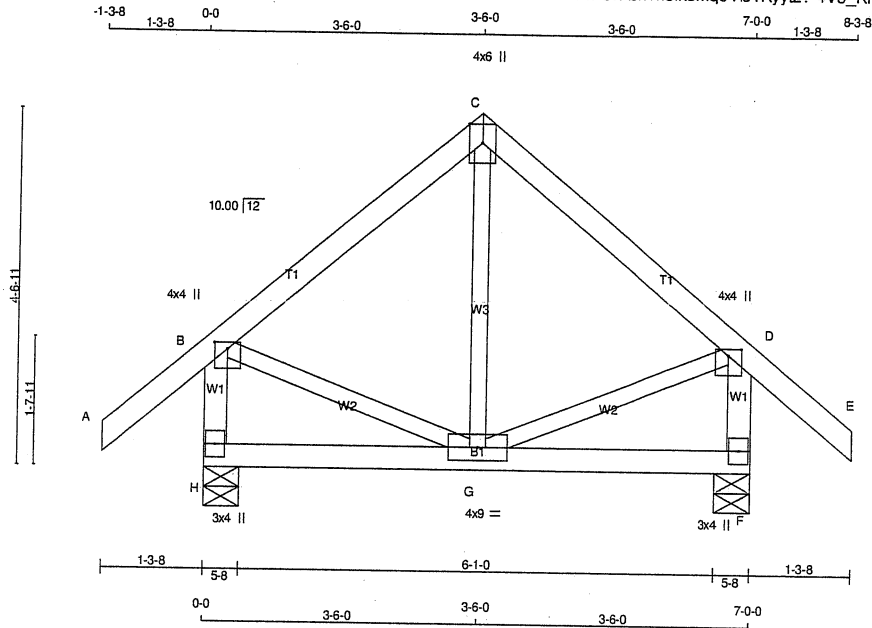
JSI GRIP= 0.23 (A) (INPUT = 0.90)
JSI METAL= 0.07 (C) (INPUT = 1.00)



Structural component only
DWG# T-2126311

JOB NAME 420230	TRUSS NAME T16	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:28.1

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW-t	MT20	4.0	9.0		
H	BMV1+p	MT20	3.0	4.0		

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

NOTES: (1)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	UPLIFT
H	479	0	479	0
F	479	0	479	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
H	338	228 / 0	0 / 0	0 / 0	110 / 0	0 / 0
F	338	228 / 0	0 / 0	0 / 0	110 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 38	-84.9 -84.9	0.12 (1)	G-C	-37 / 44	0.02 (4)	
B-C	-203 / 0	-84.9 -84.9	0.13 (1)	B-G	0 / 166	0.04 (1)	
C-D	-203 / 0	-84.9 -84.9	0.13 (1)	G-D	0 / 166	0.04 (1)	
D-E	0 / 38	-84.9 -84.9	0.12 (1)				
H-B	-454 / 0	0.0 0.0	0.05 (1)				
F-D	-454 / 0	0.0 0.0	0.05 (1)				
H-G	0 / 0	-18.5 -18.5	0.06 (4)				
G-F	0 / 0	-18.5 -18.5	0.06 (4)				

TOTAL WEIGHT = 34 lb [M/F]

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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 (0.00")

CSI: TC=0.13/1.00 (C-D:1), BC=0.06/1.00 (G-H:4),
WB=0.04/1.00 (B-G:1), SS=0.09/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

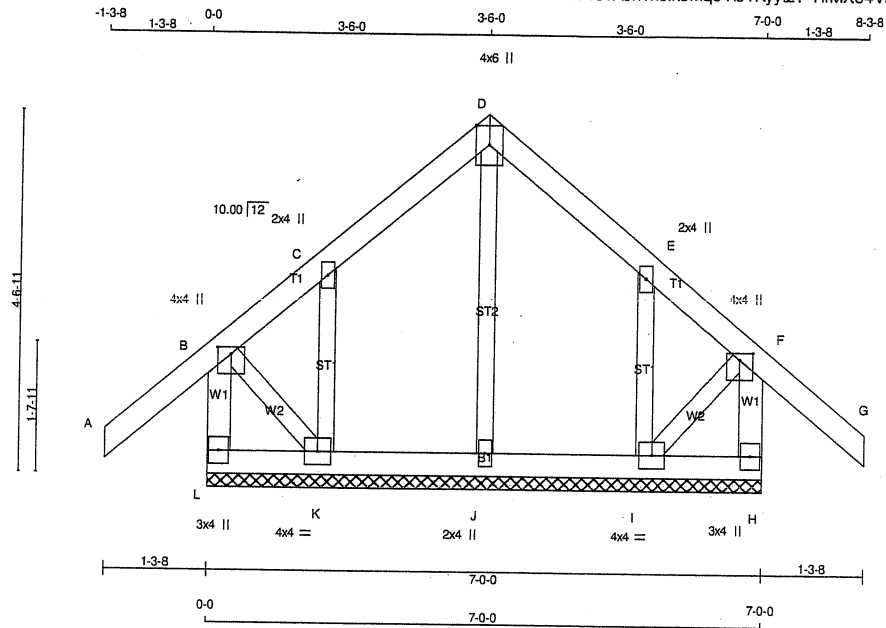
JSI GRIP= 0.35 (D) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126312

JOB NAME 420230	TRUSS NAME T16G	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:27.7

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

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TMW+w	MT20	2.0	4.0		
D	TTW+p	MT20	4.0	6.0	Edge	
E	TMW+w	MT20	2.0	4.0		
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
H	BMV1+p	MT20	3.0	4.0		
I	BMVW1-t	MT20	4.0	4.0		
J	BMVW1+w	MT20	2.0	4.0		
K	BMVW1-t	MT20	4.0	4.0		
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
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
L-B	-237 / 0	0.0	0.0 0.03 (1)	J-D	-148 / 0	0.04 (1)	7.81
A-B	0 / 38	-84.9	-84.9 0.12 (1)	K-C	-112 / 0	0.02 (1)	10.00
B-C	-40 / 0	-84.9	-84.9 0.11 (1)	I-E	-112 / 0	0.02 (1)	6.25
C-D	-14 / 0	-84.9	-84.9 0.05 (1)	B-K	0 / 13	0.00 (1)	6.25
D-E	-14 / 0	-84.9	-84.9 0.05 (1)	I-F	0 / 13	0.00 (1)	6.25
E-F	-40 / 0	-84.9	-84.9 0.11 (1)				
F-G	0 / 38	-84.9	-84.9 0.12 (1)				10.00
H-F	-237 / 0	0.0	0.0 0.03 (1)				7.81
L-K	0 / 0	-18.5	-18.5 0.01 (4)				10.00
K-J	0 / 6	-18.5	-18.5 0.02 (4)				10.00
J-I	0 / 6	-18.5	-18.5 0.02 (4)				10.00
I-H	0 / 0	-18.5	-18.5 0.01 (4)				10.00

TOTAL WEIGHT = 35 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (F-G:1), BC=0.02/1.00 (I-J:4), WB=0.04/1.00 (D-J:1), SSI=0.07/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

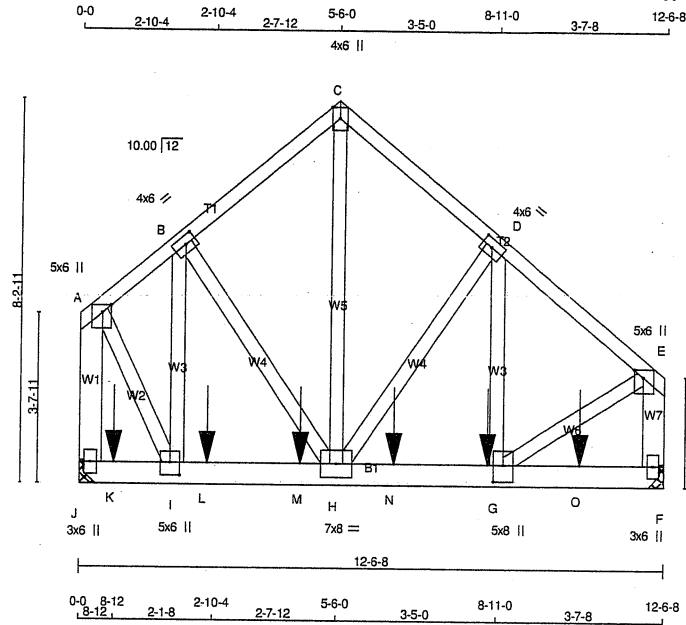
JSI GRIP= 0.17 (F) (INPUT = 0.90)
JSI METAL= 0.06 (C) (INPUT = 1.00)



Structural component only
DWG# T-2126313

JOB NAME 420230	TRUSS NAME T17	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:47.1

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

ALL WEBS 2x4 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	TOP
C - E	12	TOP
J - A	2	TOP
F - E	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J - F	2	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
D - G	6	SIDE(209.8)
2x4	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
JT	VERT	HORZ	DOWN	UP	IN-SX
J	5537	0	5537	0	MECHANICAL
F	4799	0	4799	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
J	3925	2521 / 0	0 / 0	0 / 0	1404 / 0	0 / 0
F	3402	2185 / 0	0 / 0	0 / 0	1217 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.74 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 LC1 MAX (PLF)	MAX. FACTORED UNBRAC LENGTH FR-TO
A-B	-2588 / 0	-84.9 -84.9 0.06 (1)	5.60
B-C	-2864 / 0	-84.9 -84.9 0.11 (1)	5.33
C-D	-2872 / 0	-84.9 -84.9 0.10 (1)	5.34
D-E	-3829 / 0	-84.9 -84.9 0.14 (1)	4.74
J-A	-4823 / 0	0.0 0.0 0.35 (1)	6.60
F-E	-4168 / 0	0.0 0.0 0.18 (1)	6.99
J-K	0 / 0	-18.5 -18.5 0.22 (1)	10.00
K-I	0 / 0	-18.5 -18.5 0.22 (1)	10.00
I-L	0 / 1999	-18.5 -18.5 0.41 (1)	10.00
L-M	0 / 1999	-18.5 -18.5 0.41 (1)	10.00
M-H	0 / 1999	-18.5 -18.5 0.41 (1)	10.00
H-N	0 / 2953	-18.5 -18.5 0.47 (1)	10.00
N-G	0 / 2953	-18.5 -18.5 0.47 (1)	10.00
G-O	0 / 0	-18.5 -18.5 0.41 (1)	10.00
O-F	0 / 0	-18.5 -18.5 0.41 (1)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	8-8-12	-1067	-1067	---	BACK	VERT	TOTAL	---	C1
K	8-12	-1069	-1069	---	BACK	VERT	TOTAL	---	C1
L	2-8-12	-1067	-1067	---	BACK	VERT	TOTAL	---	C1
M	4-8-12	-1067	-1067	---	BACK	VERT	TOTAL	---	C1
N	6-8-12	-1067	-1067	---	BACK	VERT	TOTAL	---	C1
O	10-8-12	-1067	-1067	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 91 = 182 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.42")

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

ALLOWABLE DEFL.(TL)= L/360 (0.42")

CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.35/1.00 (A-J:1), BC=0.47/1.00 (G-H:1),

WB=0.33/1.00 (A-I:1), SSI=0.51/1.00 (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.

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

JSI METAL= 0.53 (G) (INPUT = 1.00)



Structural component only
DWG# T-2126314

CONTINUED ON PAGE 2

JOB NAME 420230	TRUSS NAME T17	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 08:05:45 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	6.0	2.00	2.25
B	TMWW-t	MT20	4.0	6.0	2.00	2.75
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMWW-t	MT20	4.0	6.0	2.00	2.75
E	TMVW+p	MT20	5.0	6.0	2.00	2.25
F	BMV1+p	MT20	3.0	6.0		
G	BMWW+t	MT20	5.0	8.0	4.25	2.50
H	BMWW-t	MT20	7.0	8.0		
I	BMWW+t	MT20	5.0	6.0	3.25	2.50
J	BMV1+p	MT20	3.0	6.0		

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

NOTES: (1)

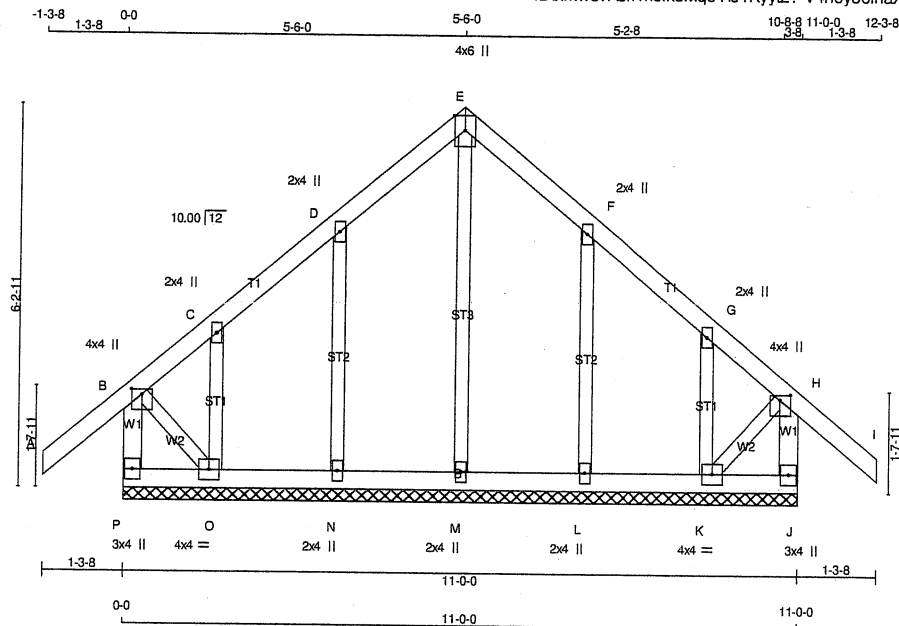
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2126314 *me*

JOB NAME 420230	TRUSS NAME T19G	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. Wed Aug 4 08:05:46 2021 Page 1
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Scale = 1:35.7

TOTAL WEIGHT = 53 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
P - B	2x4	DRY	No.2
A - E	2x4	DRY	No.2
E - I	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - J	2x4	DRY	No.2

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

GABLE STUDS SPACED AT 2'-0" O.C.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C, D, F, G						
C	TMW+w	MT20	2.0	4.0		
E	TTW+p	MT20	4.0	6.0	Edge	
H	TMVW+p	MT20	4.0	4.0	1.00	2.00
J	BMV1+p	MT20	3.0	4.0		
K	BMWW1-t	MT20	4.0	4.0		
L, M, N						
L	BMW1+w	MT20	2.0	4.0		
O	BMWW1-t	MT20	4.0	4.0		
P	BMV1+p	MT20	3.0	4.0		

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

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

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
P-B	-254 / 0	0.0 0.0	0.03 (1)	7.81	M-E	-128 / 0	0.08 (1)
A-B	0 / 38	-84.9 -84.9	0.12 (1)	10.00	N-D	-206 / 0	0.06 (1)
B-C	-52 / 0	-84.9 -84.9	0.11 (1)	6.25	O-C	-73 / 0	0.01 (1)
C-D	-4 / 0	-84.9 -84.9	0.06 (1)	10.00	L-F	-206 / 0	0.06 (1)
D-E	-21 / 0	-84.9 -84.9	0.06 (1)	6.25	K-G	-73 / 0	0.01 (1)
E-F	-21 / 0	-84.9 -84.9	0.06 (1)	10.00	B-O	0 / 19	0.00 (1)
F-G	-4 / 0	-84.9 -84.9	0.06 (1)	6.25	K-H	0 / 19	0.00 (1)
G-H	-52 / 0	-84.9 -84.9	0.11 (1)	10.00			
H-I	0 / 38	-84.9 -84.9	0.12 (1)	10.00			
J-H	-254 / 0	0.0 0.0	0.03 (1)	7.81			
P-O	0 / 0	-18.5 -18.5	0.01 (4)	10.00			
O-N	0 / 11	-18.5 -18.5	0.02 (4)	10.00			
N-M	0 / 7	-18.5 -18.5	0.02 (4)	10.00			
M-L	0 / 7	-18.5 -18.5	0.02 (4)	10.00			
L-K	0 / 11	-18.5 -18.5	0.02 (4)	10.00			
K-J	0 / 0	-18.5 -18.5	0.01 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (H-I:1), BC=0.02/1.00 (K-L:4), WB=0.08/1.00 (E-M:1), SSI=0.07/1.00 (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= 0.18 (H) (INPUT = 0.90)
JSI METAL= 0.11 (D) (INPUT = 1.00)

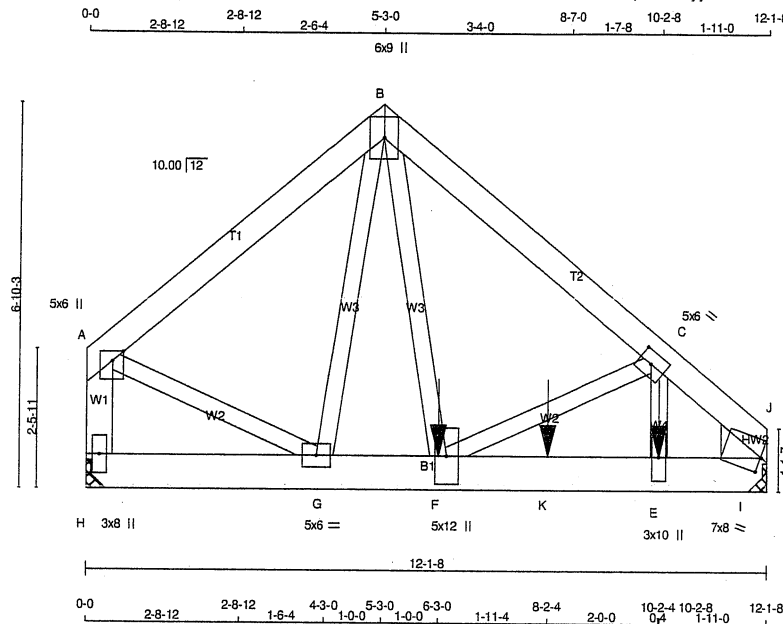


Structural component only
DWG# T-2126315

JOB NAME 420230	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:39.1

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x6	DRY	No.2
B - D	2x6	DRY	No.2
H - A	2x6	DRY	No.2
H - D	2x8	DRY	No.2
ALL WEBS	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B 2	12	TOP
B-D 2	12	TOP
H-A 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H-D 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
B-F 1	5	SIDE(646.1)
C-E 1	2	SIDE(209.8)
2x4 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWV+p	MT20	5.0	6.0	2.00	2.25
B	TTMW+p	MT20	6.0	9.0		
C	TMWV-t	MT20	5.0	6.0	2.50	2.75

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	HEEL
VERT					
H	2884	0	2884	0	0
D	4559	0	4559	0	0
			MECHANICAL	MECHANICAL	2x8 R

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX / MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
COMBINED						
H	2046	1308 / 0	0 / 0	0 / 0	738 / 0	0 / 0
D	3233	2072 / 0	0 / 0	0 / 0	1161 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.96 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	-2751 / 0	-84.9 -84.9	0.12 (1)	6.25	B-F	0 / 4479	0.40 (1)
B-C	-3831 / 0	-84.9 -84.9	0.17 (1)	5.61	G-B	-670 / 0	0.16 (1)
C-J	-5471 / 0	-84.9 -84.9	0.36 (1)	4.61	A-G	0 / 2314	0.20 (1)
J-D	-7605 / 0	-84.9 -84.9	0.39 (1)	3.96	F-C	-1037 / 0	0.12 (1)
H-A	-2926 / 0	0.0 0.0	0.12 (1)	7.81	E-C	0 / 1691	0.15 (1)
					I-J	0 / 2641	0.00 (1)
H-G	0 / 0	-18.5 -18.5	0.08 (1)	10.00			
G-F	0 / 2224	-18.5 -18.5	0.20 (1)	10.00			
F-K	0 / 3873	-18.5 -18.5	0.59 (1)	10.00			
K-E	0 / 3873	-18.5 -18.5	0.59 (1)	10.00			
E-I	0 / 3873	-18.5 -18.5	0.38 (1)	10.00			
I-D	0 / 3873	-18.5 -18.5	0.38 (1)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	10-2-4	-1067	-1067	---	BACK	VERT	TOTAL	---	C1
F	6-3-0	-2255	-2255	---	BACK	VERT	TOTAL	---	C1
K	8-2-4	-1067	-1067	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.39/1.00 (D-J:1), BC=0.59/1.00 (E-F:1), WB=0.40/1.00 (B-F:1), SSI=0.61/1.00 (D-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 RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (D) (INPUT = 0.90)
JSI METAL= 0.45 (F) (INPUT = 1.00)



Structural component only
DWG# T-2126316

CONTINUED ON PAGE 2

JOB NAME 420230	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 08:05:47 2021 Page 2
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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
D	TMBH1-m	MT20	7.0	8.0	3.25	0.25
E	BMW+w	MT20	3.0	10.0		
F	BMWW+t	MT20	5.0	12.0		
G	BMWW-t	MT20	5.0	6.0		
H	BMV1+p	MT20	3.0	8.0		

NOTES: (1)

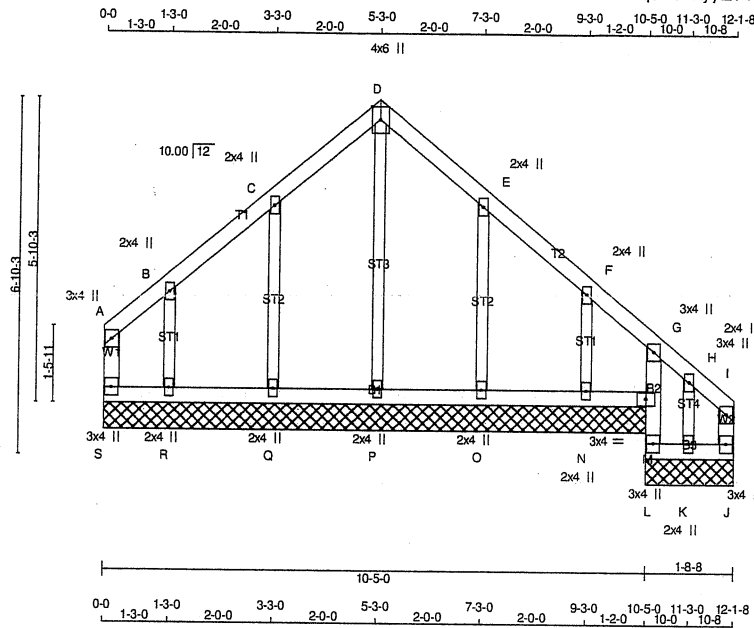
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2126316 *me*

JOB NAME 420230	TRUSS NAME T21S	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. Wed Aug 4 08:05:48 2021 Page 1
ID:xMw3vAjh1ncl6MqoYIJ1Kyytz7-RTutNT7?DBniUTKLkJH0NxmK3Rk2hpRnR3wnpeyrljX



Scale = 1:42.2

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - I	2x4	DRY No.2	SPF
S - A	2x4	DRY No.2	SPF
J - I	2x4	DRY No.2	SPF
S - M	2x4	DRY No.2	SPF
L - G	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
ALL GABLE WEBS	2x3	DRY No.2	SPF
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT	2-0-0	OC.	

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A, G, I					
A - TMV+p	MT20	3.0	4.0		
B, C, E, F, H					
B - TMV+w	MT20	2.0	4.0		
D - TTW+p	MT20	4.0	6.0	Edge	
J, L, S					
J - BMV1+p	MT20	3.0	4.0		
K, N, O, P, Q, R					
K - BMV1+w	MT20	2.0	4.0		
M - BVM1-i	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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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	-27 / 0	-84.9 -84.9	0.03 (1)	6.25	P-D	-154 / 0	0.08 (1)
B-C	-19 / 0	-84.9 -84.9	0.04 (1)	6.25	Q-C	-177 / 0	0.05 (1)
C-D	-18 / 0	-84.9 -84.9	0.04 (1)	6.25	R-B	-128 / 0	0.02 (1)
D-E	-17 / 0	-84.9 -84.9	0.04 (1)	6.25	O-E	-176 / 0	0.05 (1)
E-F	-20 / 0	-84.9 -84.9	0.04 (1)	6.25	N-F	-138 / 0	0.02 (1)
F-G	-26 / 0	-84.9 -84.9	0.03 (1)	6.25	K-H	-54 / 0	0.01 (1)
G-H	-16 / 0	-84.9 -84.9	0.00 (1)	6.25			
H-I	-24 / 0	-84.9 -84.9	0.01 (1)	6.25			
S-A	-64 / 0	0.0 0.0	0.02 (1)	7.81			
J-I	-52 / 0	0.0 0.0	0.01 (1)	7.81			
S-R	0 / 23	-18.5 -18.5	0.02 (1)	10.00			
R-Q	0 / 18	-18.5 -18.5	0.02 (4)	10.00			
Q-P	0 / 13	-18.5 -18.5	0.02 (4)	10.00			
P-O	0 / 13	-18.5 -18.5	0.02 (4)	10.00			
O-N	0 / 17	-18.5 -18.5	0.02 (4)	10.00			
N-M	0 / 24	-18.5 -18.5	0.01 (4)	10.00			
L-M	0 / 0	0.0 0.0	0.01 (1)	10.00			
M-G	-85 / 0	0.0 0.0	0.01 (1)	7.81			
L-K	0 / 12	-18.5 -18.5	0.01 (1)	10.00			
K-J	0 / 16	-18.5 -18.5	0.01 (1)	10.00			

TOTAL WEIGHT = 51 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.04/1.00 (B-C:1), BC=0.02/1.00 (R-S:1),
WB=0.08/1.00 (D-P:1), SSI=0.05/1.00 (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= 0.13 (C) (INPUT = 0.90)
JSI METAL= 0.09 (C) (INPUT = 1.00)

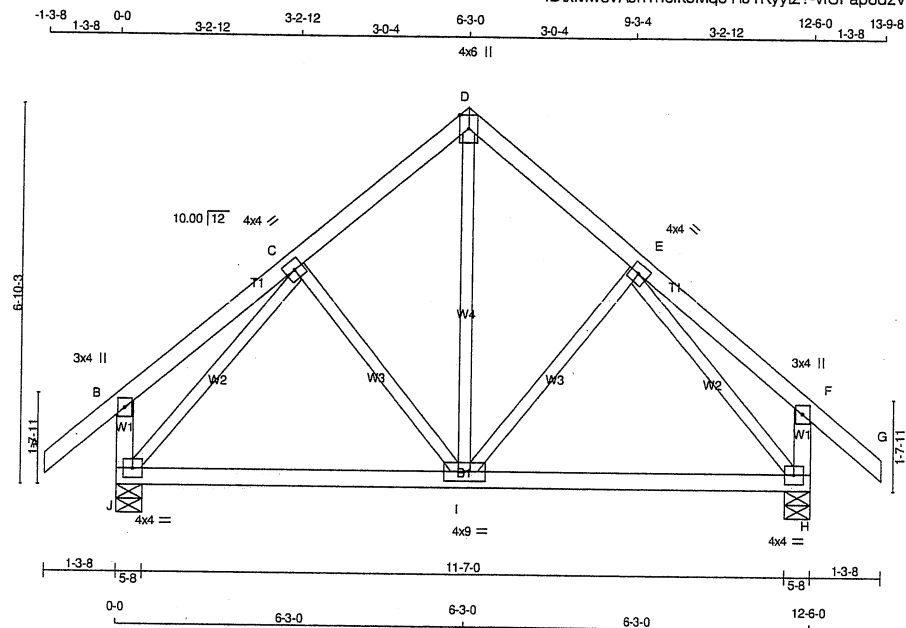


Structural component only
DWG# T-2126317

Tamarack Roof Truss, Burlington

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Scale = 1:39.6



TOTAL WEIGHT = 60 lb

M(F)

N. L. G. A. RULES

ALL WEBS 2x3 DRY
EXCEPT

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWV-t	MT20	4.0	4.0		
D	TTW+p	MT20	4.0	6.0		Edge
E	TMWV-t	MT20	4.0	4.0		
F	TMV+p	MT20	3.0	4.0		
H	BMWV-1-t	MT20	4.0	4.0		
I	BMWVWV-t	MT20	4.0	9.0		
J	BMWV-1-t	MT20	4.0	4.0		

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

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
J	764	0	764	0	0	5-8	5-8
H	764	0	764	0	0	5-8	5-8

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	540	356 / 0	0 / 0	0 / 0	0 / 0	184 / 0	0 / 0
H	540	356 / 0	0 / 0	0 / 0	0 / 0	184 / 0	0 / 0

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

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. 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 / 38	-84.9	-84.9	0.12 (1)	10.00	I-D	0 / 329
B-C	0 / 19	-84.9	-84.9	0.13 (1)	10.00	I-E	-120 / 0
C-D	-439 / 0	-84.9	-84.9	0.10 (1)	6.25	C-I	-120 / 0
D-E	-439 / 0	-84.9	-84.9	0.10 (1)	6.25	J-C	-640 / 0
E-F	0 / 19	-84.9	-84.9	0.13 (1)	10.00	E-H	-640 / 0
F-G	0 / 38	-84.9	-84.9	0.12 (1)	10.00		
J-B	-219 / 0	0.0	0.0	0.02 (1)	7.81		
H-F	-219 / 0	0.0	0.0	0.02 (1)	7.81		
J-I	0 / 399	-18.5	-18.5	0.24 (4)	10.00		
I-H	0 / 399	-18.5	-18.5	0.24 (4)	10.00		

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	36.7	PSF

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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.13/1.00 (B-C:1), BC=0.24/1.00 (I-J:4), WB=0.25/1.00 (E-H:1), SSI=0.10/1.00 (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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	650	371	1747	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

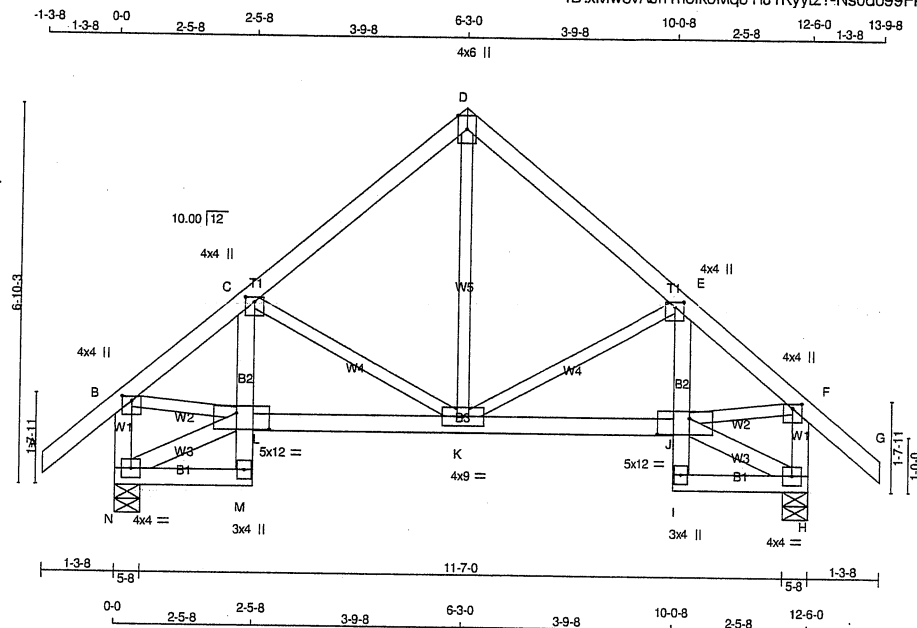
JSI GRIP= 0.70 (C) (INPUT = 0.90)
JSI METAL= 0.21 (C) (INPUT = 1.00)



Structural component only
DWG# T-2126318 *241*

JOB NAME 420230	TRUSS NAME T22S	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:39.6

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B, C, E, F						
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
D	TTW+p	MT20	4.0	6.0	Edge	
H	BMVW1-t	MT20	4.0	4.0		
I	BMV+p	MT20	3.0	4.0		
J	BMVWV-I	MT20	5.0	12.0	3.50	7.00
K	BMVWV-t	MT20	4.0	9.0		
L	BMVWV-I	MT20	5.0	12.0	3.50	7.00
M	BMV+p	MT20	3.0	4.0		
N	BMVW1-t	MT20	4.0	4.0		

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

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
N	764	0	764	0	5-8
H	764	0	764	0	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
N	540	356 / 0	0 / 0	0 / 0	0 / 0	184 / 0	0 / 0
H	540	356 / 0	0 / 0	0 / 0	0 / 0	184 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				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 / 38	-84.9	-84.9 0.12 (1)	10.00	K-D	0 / 343	0.08 (1)
B-C	-758 / 0	-84.9	-84.9 0.12 (1)	6.25	K-E	-278 / 0	0.09 (1)
C-D	-503 / 0	-84.9	-84.9 0.15 (1)	6.25	C-K	-278 / 0	0.09 (1)
D-E	-503 / 0	-84.9	-84.9 0.15 (1)	6.25	N-L	-18 / 0	0.00 (1)
E-F	-758 / 0	-84.9	-84.9 0.12 (1)	6.25	B-L	0 / 609	0.14 (1)
F-G	0 / 38	-84.9	-84.9 0.12 (1)	10.00	J-H	-18 / 0	0.00 (1)
N-B	-735 / 0	0.0	0.0 0.08 (1)	7.81	J-F	0 / 609	0.14 (1)
H-F	-735 / 0	0.0	0.0 0.08 (1)	7.81			
N-M	0 / 16	-18.5	-18.5 0.03 (4)	10.00			
M-L	0 / 24	0.0	0.0 0.03 (1)	10.00			
L-C	-10 / 34	0.0	0.0 0.02 (4)	7.81			
L-K	0 / 614	-18.5	-18.5 0.14 (1)	10.00			
K-J	0 / 614	-18.5	-18.5 0.14 (1)	10.00			
I-J	0 / 24	0.0	0.0 0.03 (1)	10.00			
J-E	-10 / 34	0.0	0.0 0.02 (4)	7.81			
I-H	0 / 16	-18.5	-18.5 0.03 (4)	10.00			

TOTAL WEIGHT = 66 lb
(M/F)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.15/1.00 (C-D:1), BC=0.14/1.00 (K-L:1), WB=0.14/1.00 (B-L:1), SS=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

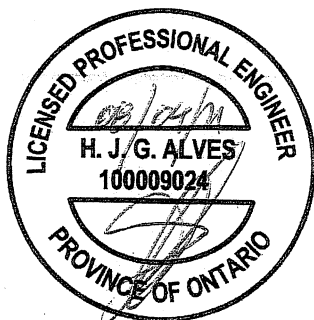
NAIL VALUES

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.

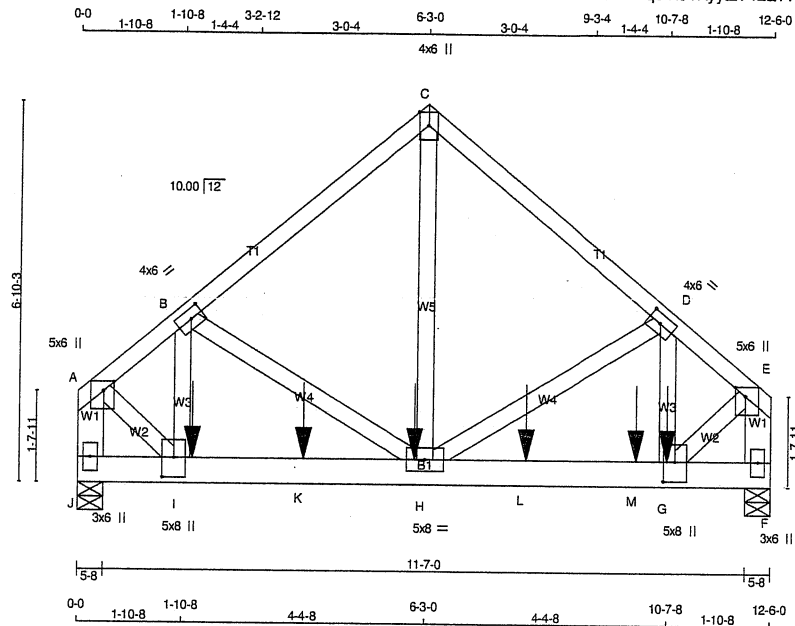
JSI GRIP= 0.81 (B) (INPUT = 0.90)
JSI METAL= 0.23 (F) (INPUT = 1.00)



Structural component only
DWG# T-2126319

JOB NAME 420230	TRUSS NAME T23	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:39.6

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY No.2	SPF			
C - E	2x4 DRY No.2	SPF			
J - A	2x6 DRY No.2	SPF			
F - E	2x6 DRY No.2	SPF			
J - F	2x6 DRY No.2	SPF			
ALL WEBS 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 1	12	TOP
C - E 1	12	TOP
J - A 2	12	TOP
F - E 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J - F 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x4 1	6	SIDE(564.6)
G - D 1	2	
I - B 1	2	

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 IN-SX	REQRD BRG IN-SX
JT	VERT	HORZ	DOWN	UPLIFT
J	1837	0	1837	0
F	3799	0	3799	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
J	1299	852 / 0	0 / 0	0 / 0	0 / 0	447 / 0
F	2690	1747 / 0	0 / 0	0 / 0	0 / 0	943 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	W E B S	MAX. FACTORED	MAX
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX	FORCE (LBS)	MAX
FR-TO		FROM	TO	LENGTH	FR-TO				
A - B	-1561 / 0	-84.9	-84.9	0.11 (1)	6.25	H - C	0 / 1712	0.15 (1)	
B - C	-1601 / 0	-84.9	-84.9	0.12 (1)	6.25	G - D	0 / 1567	0.14 (1)	
C - D	-1599 / 0	-84.9	-84.9	0.13 (1)	6.25	I - B	-339 / 0	0.02 (1)	
D - E	-3244 / 0	-84.9	-84.9	0.12 (1)	5.05	B - H	-23 / 2	0.00 (1)	
J - A	-1841 / 0	0.0	0.0	0.07 (1)	7.81	A - I	0 / 1473	0.13 (1)	
F - E	-3763 / 0	0.0	0.0	0.14 (1)	7.28	H - D	-1552 / 0	0.25 (1)	
J - I	0 / 0	-18.5	-18.5	0.02 (4)	10.00	G - E	0 / 3012	0.27 (1)	
I - K	0 / 1234	-18.5	-18.5	0.19 (1)	10.00				
K - H	0 / 1234	-18.5	-18.5	0.19 (1)	10.00				
H - L	0 / 2524	-18.5	-18.5	0.27 (1)	10.00				
L - M	0 / 2524	-18.5	-18.5	0.27 (1)	10.00				
M - G	0 / 2524	-18.5	-18.5	0.27 (1)	10.00				
G - F	0 / 0	-18.5	-18.5	0.01 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	10-7-8	-2031	-2031	---	BACK	VERT	TOTAL	---	C1
H	6-0-12	-208	-208	---	BACK	VERT	TOTAL	---	C1
I	2-0-12	-208	-208	---	BACK	VERT	TOTAL	---	C1
K	4-0-12	-208	-208	---	BACK	VERT	TOTAL	---	C1
L	8-0-12	-208	-208	---	BACK	VERT	TOTAL	---	C1
M	10-0-12	-208	-208	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 73 = 146 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 240 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.14/1.00 (E-F:1), BC=0.27/1.00 (G-H:1),
WB=0.27/1.00 (E-G:1), SS=0.11/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR 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= 0.62 (B) (INPUT = 0.90)
JSI METAL= 0.45 (I) (INPUT = 1.00)



Structural component only
DWG# T-2126320

CONTINUED ON PAGE 2

JOB NAME 420230	TRUSS NAME T23	QUANTITY 1	PLY 2	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
A	TMVW+p	MT20	5.0	6.0	2.00	2.25
B	TMWW-t	MT20	4.0	6.0	2.00	2.75
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMWW-t	MT20	4.0	6.0	2.00	2.75
E	TMVW+p	MT20	5.0	6.0	2.00	2.25
F	BMV1+p	MT20	3.0	6.0		
G	BMWW-t	MT20	5.0	8.0	4.25	2.50
H	BMWW-t	MT20	5.0	8.0		
I	BMWW-t	MT20	5.0	8.0	4.25	2.50
J	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

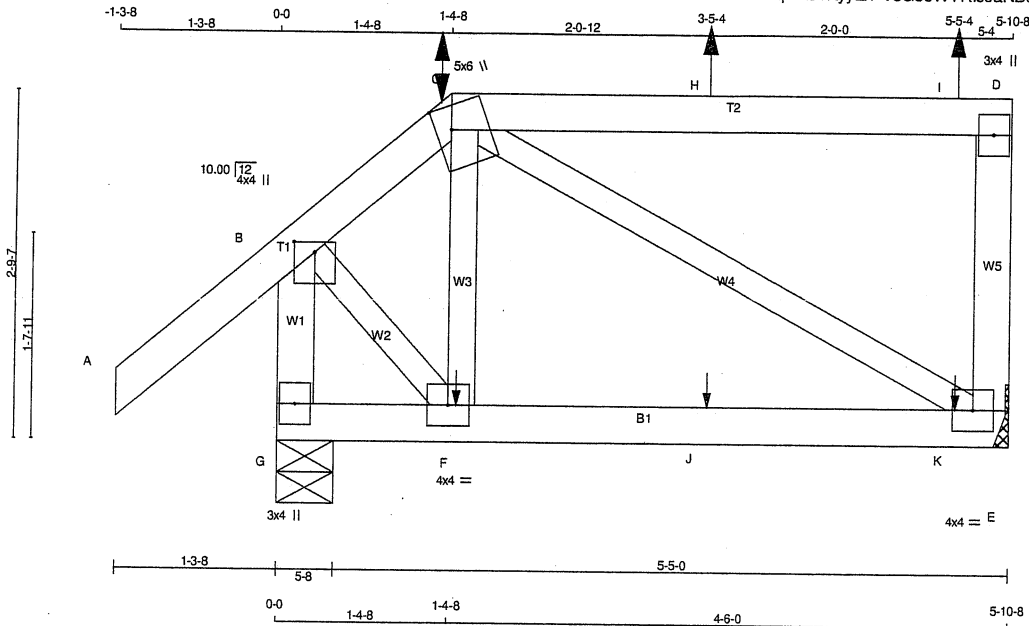
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2126320

JOB NAME 420305	TRUSS NAME T24	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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TOTAL WEIGHT = 27 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C	TTWW+m	MT20	5.0	6.0	2.25 1.50
D	TMV+p	MT20	3.0	4.0	
E	BMVW1+t	MT20	4.0	4.0	
F	BMVW1+t	MT20	4.0	4.0	
G	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
E	277	0	277	0	0
G	449	0	449	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
E	195	134 / 0	0 / 0	0 / 0	61 / 0	0 / 0
G	315	224 / 0	0 / 0	0 / 0	90 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO			
A-B	0 / 38	-84.9	10.00
B-C	-205 / 0	-84.9	6.25
C-H	0 / 0	-84.9	10.00
H-I	0 / 0	-84.9	10.00
I-D	0 / 0	-84.9	10.00
E-D	-174 / 0	0.0	7.81
G-B	-455 / 0	0.0	7.81
G-F	0 / 0	-18.5	10.00
F-J	0 / 126	-18.5	10.00
J-K	0 / 126	-18.5	10.00
K-E	0 / 126	-18.5	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-4-8	-18	-25	86	BACK	VERT	TOTAL	---	C1
F	1-5-4	1	1	---	BACK	VERT	TOTAL	---	C1
H	3-5-4	12	1	91	BACK	VERT	TOTAL	---	C1
I	5-5-4	9	1	75	BACK	VERT	TOTAL	---	C1
J	3-5-4	1	1	---	BACK	VERT	TOTAL	---	C1
K	5-5-4	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.29/1.00 (C-D:1), BC=0.10/1.00 (E-F:4), WB=0.06/1.00 (C-E:1), SS=0.16/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

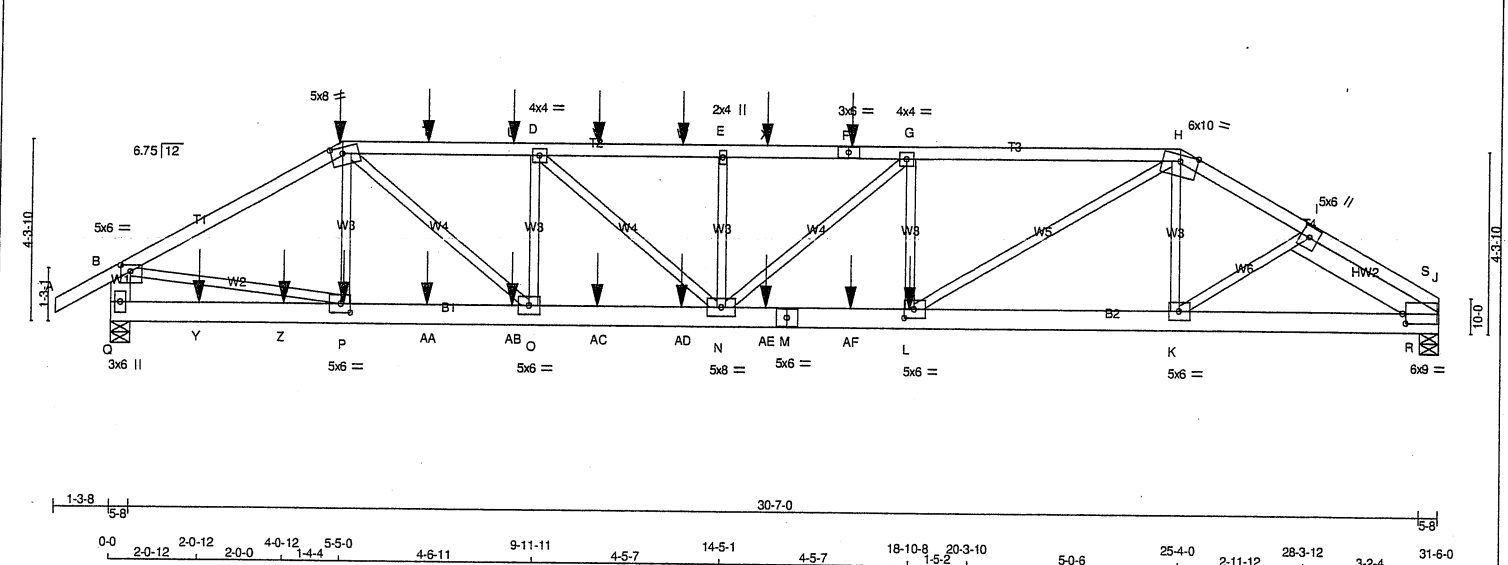
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2126328



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

REINFORCING MEMBERS	HW2	2x6 DRY	No.2	SPF
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF	

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(61.0)
C-F	12	SIDE(61.0)
F-H	12	SIDE(0.0)
H-J	12	TOP
Q-B	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
Q-M	12	SIDE(183.1)
M-J	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
P-C	6	SIDE(4.2)
L-G	6	SIDE(223.8)
2x3	1	
2x6	2	

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 IN-SX	REQRD BRG IN-SX
JT	VERT	HORZ		
J	3077	0	3077	0
Q	3492	0	3492	0

UNFACTORED REACTIONS	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
J	2179	1411 / 0	0 / 0
Q	2474	1599 / 0	0 / 0

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

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		FACTORED		MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 28	-84.9	-84.9	0.06 (1)	10.00	P-C	-466 / 0	0.06 (1)
B-C	-4899 / 0	-84.9	-84.9	0.41 (1)	4.03	K-H	0 / 90	0.02 (4)
C-T	-6492 / 0	-84.9	-84.9	0.44 (1)	3.49	B-P	0 / 4317	0.53 (1)
T-U	-6492 / 0	-84.9	-84.9	0.44 (1)	3.49	L-G	-478 / 0	0.07 (1)
U-D	-6492 / 0	-84.9	-84.9	0.44 (1)	3.49	N-G	-276 / 0	0.08 (1)
D-V	-7622 / 0	-84.9	-84.9	0.51 (1)	3.16	C-O	0 / 2952	0.37 (1)
V-W	-7622 / 0	-84.9	-84.9	0.51 (1)	3.16	N-E	-845 / 0	0.09 (1)
W-E	-7622 / 0	-84.9	-84.9	0.51 (1)	3.16	O-D	-1778 / 0	0.24 (1)
E-X	-7622 / 0	-84.9	-84.9	0.52 (1)	3.14	D-N	0 / 1507	0.19 (1)
X-F	-7622 / 0	-84.9	-84.9	0.52 (1)	3.14	L-H	0 / 4020	0.50 (1)
F-G	-7622 / 0	-84.9	-84.9	0.52 (1)	3.14	K-I	0 / 322	0.04 (1)
G-H	-7829 / 0	-84.9	-84.9	0.72 (1)	3.09	R-S	0 / 1335	0.00 (1)
H-I	-5051 / 0	-84.9	-84.9	0.14 (1)	4.21	R-I	-2577 / 0	0.15 (1)
I-S	-2510 / 0	-84.9	-84.9	0.05 (1)	5.68			
S-J	-3472 / 0	-84.9	-84.9	0.05 (1)	5.01			
Q-B	-3417 / 0	0.0	0.0	0.12 (1)	7.55			

Q-Y	0 / 0	-18.5	-18.5	0.06 (4)	10.00
Y-Z	0 / 0	-18.5	-18.5	0.06 (4)	10.00
Z-P	0 / 0	-18.5	-18.5	0.06 (4)	10.00
P-AA	0 / 4254	-18.5	-18.5	0.31 (1)	10.00
AA-AB	0 / 4254	-18.5	-18.5	0.31 (1)	10.00
AB-O	0 / 4254	-18.5	-18.5	0.31 (1)	10.00
O-AC	0 / 6492	-18.5	-18.5	0.47 (1)	10.00
AC-AD	0 / 6492	-18.5	-18.5	0.47 (1)	10.00
AD-N	0 / 6492	-18.5	-18.5	0.47 (1)	10.00
N-AE	0 / 7829	-18.5	-18.5	0.59 (1)	10.00
AE-M	0 / 7829	-18.5	-18.5	0.59 (1)	10.00
M-AF	0 / 7829	-18.5	-18.5	0.59 (1)	10.00
AF-L	0 / 7829	-18.5	-18.5	0.59 (1)	10.00
L-K	0 / 4391	-18.5	-18.5	0.35 (1)	10.00
K-R	0 / 4129	-18.5	-18.5	0.35 (1)	10.00
R-J	0 / 2192	-18.5	-18.5	0.23 (1)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-5-0	-335	---	---	FRONT	VERT	TOTAL	---	C1
F	17-5-12	-100	---	---	FRONT	VERT	TOTAL	---	C1
L	18-10-8	-1100	---	---	FRONT	VERT	TOTAL	---	C1
P	5-5-12	-25	---	---	FRONT	VERT	TOTAL	---	C1
T	7-5-12	-100	---	---	FRONT	VERT	TOTAL	---	C1
U	9-5-12	-100	---	---	FRONT	VERT	TOTAL	---	C1
V	11-5-12	-100	---	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF	

SPACING = 24.0 IN./C

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

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

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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.19")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.72/1.00 (G-H:1), BC=0.59/1.00 (L-N:1), WB=0.53/1.00 (B-P:1), SI=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) (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 (J) (INPUT = 0.90)
JSI METAL= 0.75 (M) (INPUT = 1.00)



Structural component only
DWG# T-2126339

JOB NAME 420307	TRUSS NAME T25X	QUANTITY 1	PLY 2	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
B	TMVW-p	MT20	5.0	6.0	1.75	2.75
C	TTWW-m	MT20	5.0	8.0	1.75	3.25
D	TMWW-t	MT20	4.0	4.0		
E	TMW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	6.0	10.0	Edge	
I	TMWW-t	MT20	5.0	6.0		
J	TMBMW1-t	MT20	6.0	9.0	2.75	1.00
K	BMWW-t	MT20	5.0	6.0		
L	BMWW-t	MT20	5.0	6.0	2.50	2.75
M	BS-t	MT20	5.0	6.0		
N	BMWW-t	MT20	5.0	8.0		
O	BMWW-t	MT20	5.0	6.0		
P	BMWW-t	MT20	5.0	6.0	2.50	2.75
Q	BMV1-p	MT20	3.0	6.0		

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

NOTES- (1)

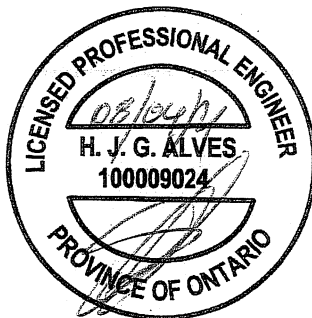
1) Lateral braces to be a minimum of 2X4 SPF #2.

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	13-5-12	-100	-100	---	FRONT	VERT	TOTAL	---	C1
X	15-5-12	-100	-100	---	FRONT	VERT	TOTAL	---	C1
Y	2-0-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
Z	4-0-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AA	7-5-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AB	9-5-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AC	11-5-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AD	13-5-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AE	15-5-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AF	17-5-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

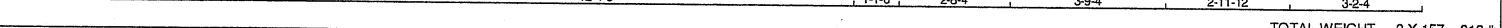


Structural component only
DWG# T-2126339 *M*

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 10:14:15 2021 Page 1
ID:3j58QWzqAirhOuMwta7eUuyvWfD-HA4RvmPKCA9bt0ZjQ2LEBTFUBzyFgBfDLecyrGr6

Diagram showing a roof truss structure with dimensions and member labels. The dimensions are: 1-3-8, 0-0, 1-9-8, 1-9-8, 3-7-8, 5-5-0, 5-7-8, 2-8, 12-2-0, 17-9-8, 18-10-8, 1-1-0, 2-8-4, 21-6-12, 3-9-4, 25-4-0, 2-11-12, 28-3-12, 3-2-4, 31-6-0. The scale is 1/2" = 1'-0".

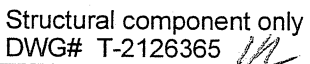


REINFORCING MEMBERS HW2 2x6 DRY No.2 SPF					X 2614 1704 / 0 0 / 0 0 / 0 0 / 0 911 / 0 0 / 0	TOTAL LOAD = 36.7 PSF
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) L, X						<u>SPACING = 24.0 IN. C/C</u>
ALL WEBS EXCEPT Q - N 2x6 DRY No.2 SPF X - V 2x4 DRY No.2 SPF					<u>BRACING</u> TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.59 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.	LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

FOLLOWS:			CHORDS					WEBS					SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015	
			MAX. FACTORED		FACTORED			MAX. FACTORED						
CHORDS #ROWS	SURFACE	LOAD(PLF)	MEMB.	FORCE	VERT. LOAD(LC1)	MAX.	MAX.	MEMB.	FORCE	MAX.				

X-B	-3306/0	0.0	0.0	0.12 (1)	7.64	WB=0.89/1.00 (B-V:1), SSI=0.39/1.00 (C-V:1)
X-W	0/553	-18.5	-18.5	0.04 (1)	10.00	DO LUMBER=1.00 NAIL=1.00 LS BEND=1.00

DWG# T-2126365 *IN*



CONTINUED ON PAGE 2

JOB NAME 420570	TRUSS NAME T25XS	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 10:14:15 2021 Page 2 ID:3j58QWzqAirhOuMwta7eUuyvWFd-HA4RvmPKCAn9bt0ZjQ2LEBTFUByzyFgBfdL6ecyrGr6			
		TRUSS DESC.			

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	12.0		
C	TMVW+p	MT20	4.0	4.0	1.50	2.00
D	TTWW-m	MT20	5.0	8.0	2.00	2.50
E	TMVW-t	MT20	4.0	4.0		
F	TMVW-t	MT20	4.0	4.0		
G	TS-t	MT20	3.0	8.0		
H	TMV+p	MT20	3.0	4.0		
I	TMVW+t	MT20	5.0	8.0	Edge	2.00
J	TTWW-m	MT20	5.0	8.0	1.75	3.00
K	TMVW+t	MT20	5.0	6.0		
L	TMBMW1-t	MT20	8.0	9.0	3.75	1.25
M, R, S, U						
M	BMVW-t	MT20	5.0	6.0		
N	BMVW-t	MT20	6.0	9.0	2.75	2.75
O	BMV+p	MT20	3.0	10.0		
P	NP+w	MT20	3.0	6.0		
Q	BVMVW-t	MT20	8.0	12.0	4.50	5.00
T	BS-t	MT20	5.0	6.0		
V	BVMVW-t	MT20	6.0	12.0	4.75	7.00
W	BMV+p	MT20	3.0	6.0		
X	BMVW1-t	MT20	5.0	6.0		
Y	NP+w	MT20	3.0	6.0		

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

NOTES- (1)

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

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-5-0	-45	-45	---	FRONT	VERT	DEAD	---	C1
D	5-5-0	-61	-61	---	FRONT	VERT	TOTAL	---	C1
D	5-5-0	-173	-173	---	FRONT	VERT	SNOW	---	C1
G	17-5-4	-55	-55	---	FRONT	VERT	TOTAL	---	C1
Q	18-10-8	-1100	-1100	---	FRONT	VERT	TOTAL	---	C1
U	5-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1
W	1-7-12	-186	-186	---	FRONT	VERT	TOTAL	---	C1
AB	7-5-4	-55	-55	---	FRONT	VERT	TOTAL	---	C1
AC	9-5-4	-55	-55	---	FRONT	VERT	TOTAL	---	C1
AD	11-5-4	-55	-55	---	FRONT	VERT	TOTAL	---	C1
AE	13-5-4	-55	-55	---	FRONT	VERT	TOTAL	---	C1
AF	15-5-4	-55	-55	---	FRONT	VERT	TOTAL	---	C1
AG	3-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1
AH	7-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1
AI	9-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1
AJ	11-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1
AK	13-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1
AL	15-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1
AM	17-5-4	-61	-61	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

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

JSI METAL= 0.69 (N) (INPUT = 1.00)

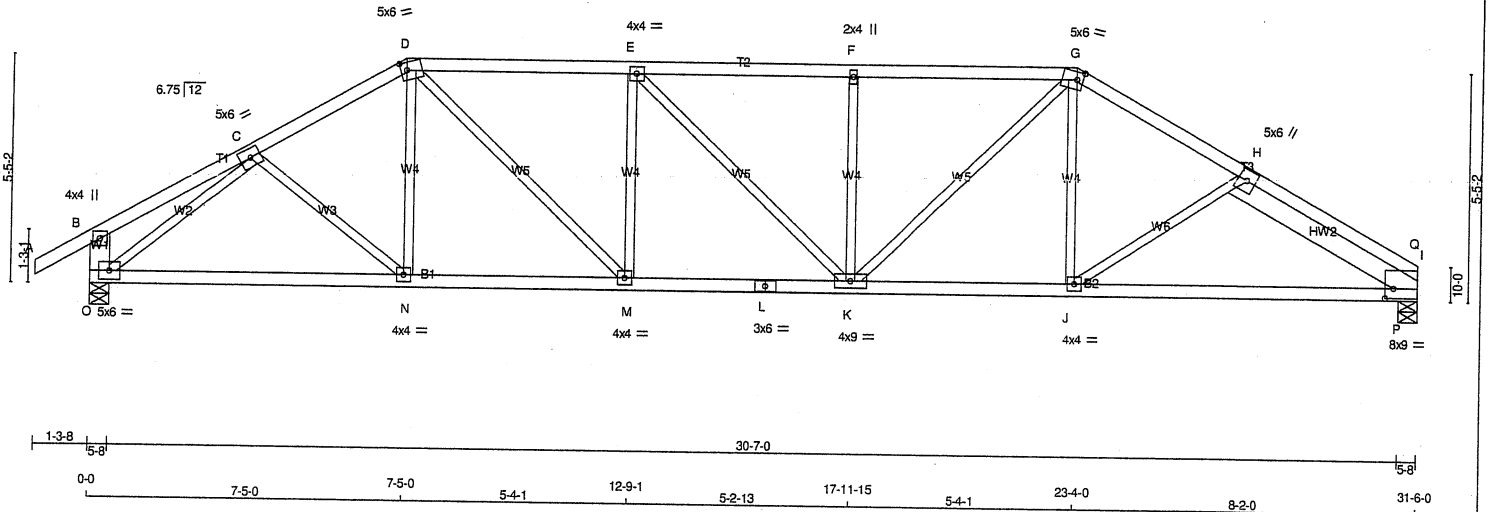
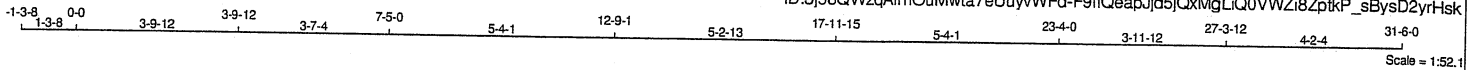


Structural component only

DWG# T-2126365 *M*

JOB NAME 420307	TRUSS NAME T26X	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. Wed Aug 4 09:04:15 2021 Page 1
ID:3j58QWzqAirhOuMwta7eUuyvWfd-F9ifQeapJjd5jQxMgLiQ0VWZi8ZptkP_sBysD2yrHsk



TOTAL WEIGHT = 131 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
O - B	2x6	DRY	No.2
O - L	2x4	DRY	No.2
L - I	2x4	DRY	No.2

REINFORCING MEMBERS			
HW2	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	4.0	4.0		
C	TMWW-t	MT20	5.0	6.0		
D	TTWW-m	MT20	5.0	6.0	2.25	1.75
E	TMWW-t	MT20	4.0	4.0		
F	TMW+w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	6.0	2.25	1.75
H	TMWW-t	MT20	5.0	6.0		
I	TMBMW1-t	MT20	8.0	9.0	2.75	2.25
J, M, N						
J	BMWW-t	MT20	4.0	4.0		
K	BMWWW-t	MT20	4.0	9.0		
L	BS-t	MT20	3.0	6.0		
O	BMW1-t	MT20	5.0	6.0		

NOTES-

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

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

BEARINGS

		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT.		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
I	1628	0	1628	0	0	5-8	5-8	5-8	
O	1744	0	1744	0	0	5-8	5-8	5-8	

UNFACTORED REACTIONS

		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
I	1156	734 / 0	0 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0	
O	1235	797 / 0	0 / 0	0 / 0	0 / 0	0 / 0	438 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.94 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 LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO					FR-TO		
A-B	0 / 28	-84.9	-84.9	0.11 (1)	10.00	C-N	0 / 77
B-C	0 / 15	-84.9	-84.9	0.16 (1)	10.00	N-D	0 / 112
C-D	-2103 / 0	-84.9	-84.9	0.22 (1)	4.48	D-M	0 / 881
D-E	-2455 / 0	-84.9	-84.9	0.45 (1)	3.97	M-E	-525 / 0
E-F	-2494 / 0	-84.9	-84.9	0.45 (1)	3.94	E-K	0 / 54
F-G	-2494 / 0	-84.9	-84.9	0.45 (1)	3.95	K-F	-485 / 0
G-H	-2236 / 0	-84.9	-84.9	0.25 (1)	4.35	K-G	0 / 770
H-Q	-1217 / 0	-84.9	-84.9	0.19 (1)	5.58	J-G	0 / 231
Q-I	-2061 / 0	-84.9	-84.9	0.13 (1)	4.61	O-C	-2283 / 0
O-B	-242 / 0	0.0	0.0	0.02 (1)	7.81	J-H	-172 / 0
						P-Q	0 / 1002
						P-H	-1267 / 0
O-N	0 / 1769	-18.5	-18.5	0.41 (1)	10.00		
N-M	0 / 1819	-18.5	-18.5	0.41 (1)	10.00		
M-L	0 / 2455	-18.5	-18.5	0.45 (1)	10.00		
L-K	0 / 2455	-18.5	-18.5	0.45 (1)	10.00		
K-J	0 / 1938	-18.5	-18.5	0.42 (1)	10.00		
J-P	0 / 2074	-18.5	-18.5	0.44 (1)	10.00		
P-I	0 / 1067	-18.5	-18.5	0.31 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.05")
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.05")
CALCULATED VERT. DEFL.(TL)= L/999 (0.23")

CSI: TC=0.45/1.00 (D-E-1), BC=0.45/1.00 (K-M-1), WB=0.80/1.00 (C-O-1), SSI=0.28/1.00 (I-P-4)

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	788	1987
			1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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

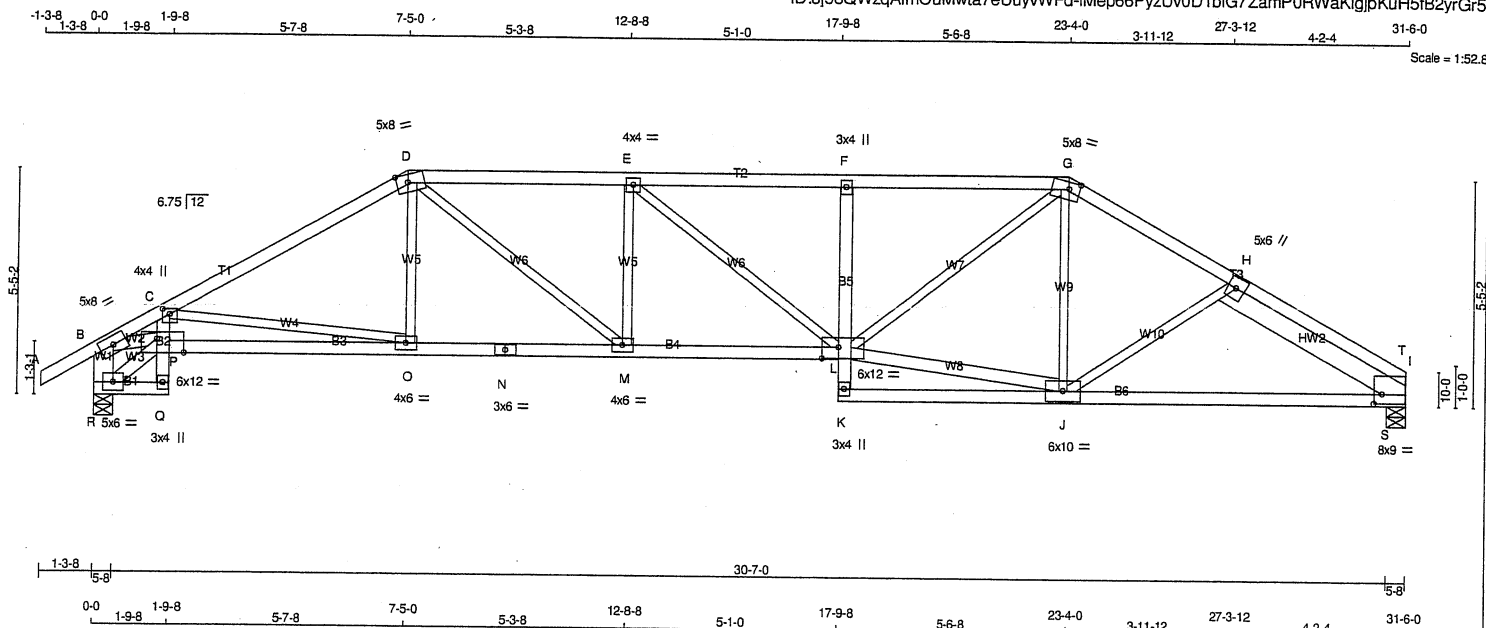


Structural component only
DWG# T-2126340

JOB NAME 420570	TRUSS NAME T26XS	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. Wed Aug 4 10:14:16 2021 Page 1
ID:3j58QWzqAirmOuMwta7eUuyvWFD-IMep66PyZUv0D1bIG7ZamP0RWaKigjpKuH5fB2yrGr5



LUMBER			
N. L. G. A. RULES.			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
R - B	2x6	DRY	No.2
R - Q	2x4	DRY	No.2
Q - C	2x4	DRY	No.2
P - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
K - F	2x4	DRY	No.2
K - I	2x4	DRY	No.2
REINFORCING MEMBERS			
HW2	2x6	DRY	No.2
ALL WEBS EXCEPT			
L - J	2x4	DRY	No.2
R - P	2x4	DRY	No.2
B - P	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
I	1625	0	1625	0	5-8
R	1746	0	1746	0	5-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	1154	732 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0
R	1237	798 / 0	0 / 0	0 / 0	0 / 0	439 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.41 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	0 / 28	C-O	-1242 / 0
A-B	-3649 / 0	O-D	0 / 230
B-C	-2576 / 0	L-J	0 / 1889
C-D	-3032 / 0	L-G	0 / 1426
D-E	-3085 / 0	J-G	-105 / 38
E-F	-3067 / 0	R-P	-218 / 0
F-G	-2237 / 0	B-P	0 / 3211
G-H	-1204 / 0	E-L	0 / 67
H-T	-2039 / 0	D-M	0 / 1005
T-I	-1608 / 0	M-E	-523 / 0
R-B	0 / 181	J-H	-170 / 0
R-Q	0 / 17	S-T	0 / 990
Q-P	0 / 351	S-H	-1278 / 0
P-C	0 / 3463		
P-O	-18.5 -18.5 0.44 (1)		
O-N	-18.5 -18.5 0.44 (1)		
N-M	-18.5 -18.5 0.44 (1)		
M-L	-18.5 -18.5 0.56 (1)		
K-L	0 / 38		
L-F	-486 / 0		
K-J	0 / 76		
J-S	0 / 2072		
S-I	0 / 1057		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC0 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.35")

CSI: TC=0.64/1.00 (C-D:1), BC=0.64/1.00 (O-P:1), WB=0.77/1.00 (C-O:1), SS=0.25/1.00 (I-S:4)

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

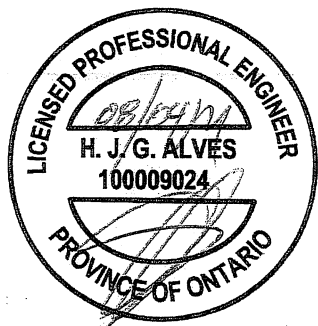
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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.

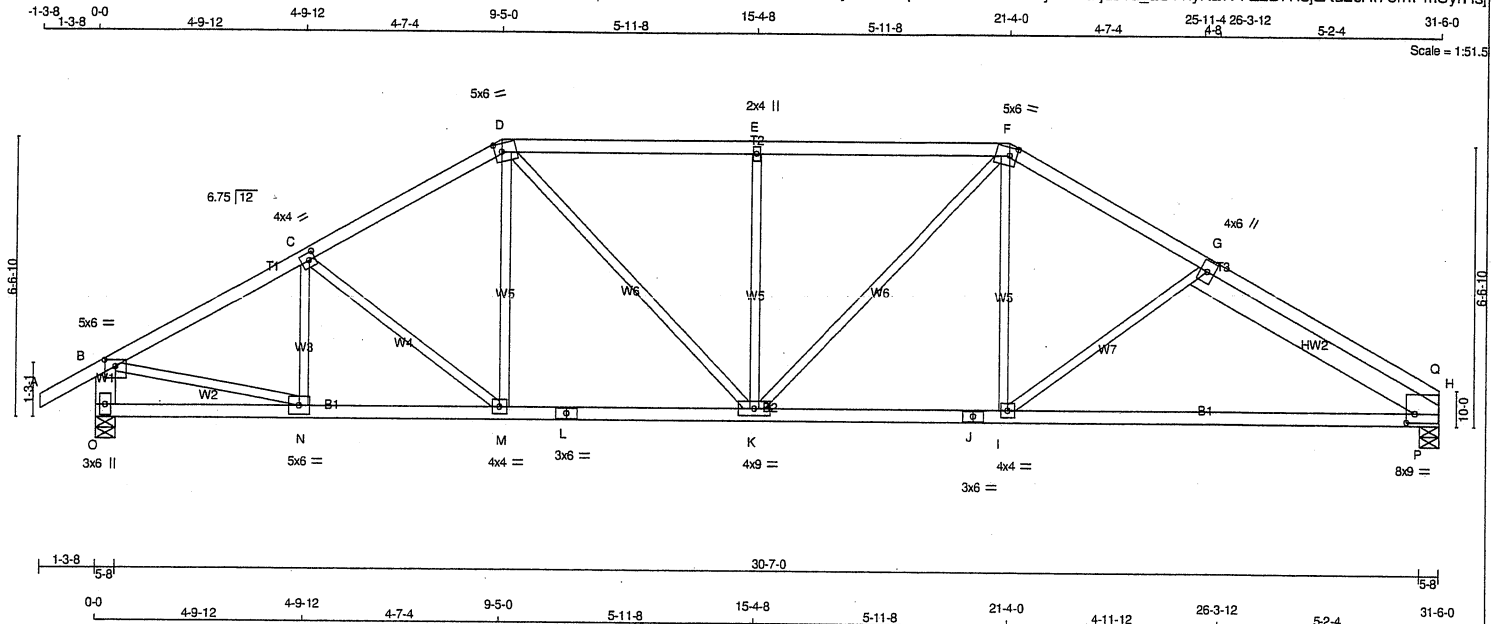
JSI GRIP= 0.89 (C) (INPUT = 0.90)
JSI METAL= 0.67 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126366

JOB NAME 420307	TRUSS NAME T27X	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:3j58QWzqAimOuMwta7eUuyvWfD-jLs1d_aS41lyKaWYE2DYf3jLXu2cH75rhPmUyrHsj



LUMBER				TOTAL WEIGHT = 134 lb	
N. L. G. A. RULES				[M][F]	
CHORDS	SIZE	LUMBER	DESCR.		
A - D	2x4	DRY	No.2		
D - F	2x4	DRY	No.2		
F - H	2x4	DRY	No.2		
O - B	2x6	DRY	No.2		
O - L	2x4	DRY	No.2		
L - J	2x4	DRY	No.2		
J - H	2x4	DRY	No.2		
REINFORCING MEMBERS					
HW2	2x6	DRY	No.2		
ALL WEBS 2x3 DRY EXCEPT					
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMW-p	MT20	5.0	6.0	1.75 3.00
C	TMW-t	MT20	4.0	4.0	2.00 1.75
D	TTW-m	MT20	5.0	6.0	2.25 2.00
E	TMW-w	MT20	2.0	4.0	
F	TTW-m	MT20	5.0	6.0	2.25 2.00
G	TMW-t	MT20	4.0	6.0	
H	TMBW-t	MT20	8.0	9.0	2.50 2.25
I	BMW-t	MT20	4.0	4.0	
J	BS-t	MT20	3.0	6.0	
K	BMW-t	MT20	4.0	9.0	
L	BS-t	MT20	3.0	6.0	
M	BMW-t	MT20	4.0	4.0	
N	BMW-t	MT20	5.0	6.0	
O	BMW-t	MT20	3.0	6.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	VERT	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
H	1628	0	1628	0	0	5-8	5-8	5-8	5-8
O	1744	0	1744	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT		COMBINED	SNOW	LIVE	PERM. LIVE
H	1156	734 / 0	0 / 0	0 / 0	0 / 0
O	1235	797 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 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		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.		FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO			
A-B	0 / 28	-84.9	-84.9	0.11 (1)	10.00	N-C	-284 / 0	0.07 (1)	
B-C	-2138 / 0	-84.9	-84.9	0.30 (1)	4.39	C-M	-199 / 0	0.12 (1)	
C-D	-2004 / 0	-84.9	-84.9	0.28 (1)	4.52	M-D	0 / 231	0.05 (4)	
D-E	-2109 / 0	-84.9	-84.9	0.45 (1)	4.21	D-K	0 / 551	0.12 (1)	
E-F	-2109 / 0	-84.9	-84.9	0.45 (1)	4.21	K-E	-619 / 0	0.44 (1)	
F-G	-2097 / 0	-84.9	-84.9	0.28 (1)	4.45	K-F	0 / 428	0.10 (1)	
G-Q	-1410 / 0	-84.9	-84.9	0.25 (1)	5.24	I-F	0 / 364	0.08 (1)	
Q-H	-2259 / 0	-84.9	-84.9	0.19 (1)	4.39	B-N	0 / 1918	0.43 (1)	
O-B	-1703 / 0	0.0	0.0	0.11 (1)	7.58	I-G	-333 / 0	0.21 (1)	
						P-Q	0 / 980	0.00 (1)	
O-N	0 / 0	-18.5	-18.5	0.09 (4)	10.00	P-G	-1025 / 0	0.37 (1)	
N-M	0 / 1882	-18.5	-18.5	0.37 (1)	10.00				
M-L	0 / 1729	-18.5	-18.5	0.35 (1)	10.00				
L-K	0 / 1729	-18.5	-18.5	0.35 (1)	10.00				
K-J	0 / 1813	-18.5	-18.5	0.45 (1)	10.00				
J-I	0 / 1813	-18.5	-18.5	0.45 (1)	10.00				
I-P	0 / 2070	-18.5	-18.5	0.51 (4)	10.00				
P-H	0 / 1235	-18.5	-18.5	0.47 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.45/1.00 (D-E:1), BC=0.51/1.00 (I-P:4), WB=0.44/1.00 (E-K:1), SSI=0.46/1.00 (H-P:4)

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

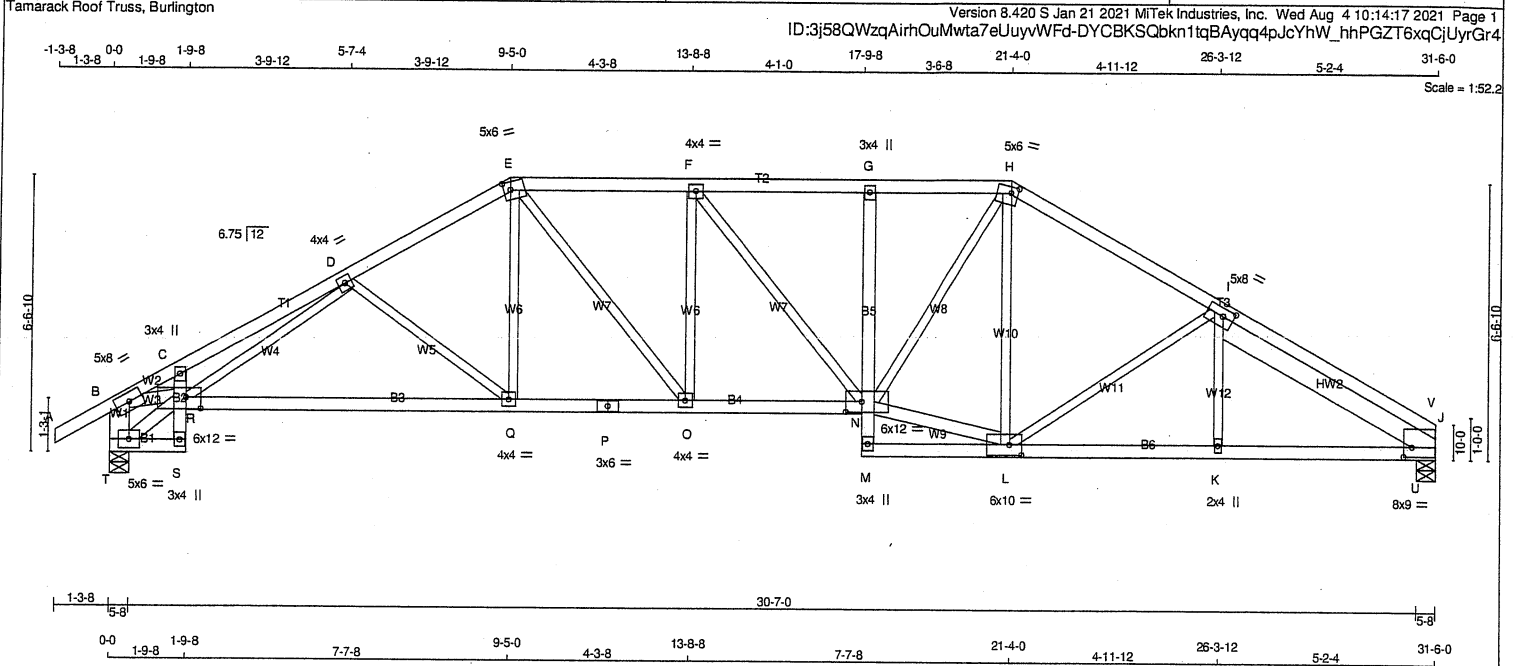
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (N) (INPUT = 0.90)
JSI METAL= 0.70 (J) (INPUT = 1.00)



Structural component only
DWG# T-2126341

JOB NAME 420570	TRUSS NAME T27XS	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. Wed Aug 4 10:14:17 2021 Page 1 ID:3j58QWzqAirhOuMwta7eUuyvWfD-DYCBKSQbkn1tqBAyqq4pJcYhW_hhPGZT6xqCjUyrGr4	



LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR.
A - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
T - B	2x6	DRY	No.2	SPF
T - S	2x4	DRY	No.2	SPF
S - C	2x4	DRY	No.2	SPF
R - P	2x4	DRY	No.2	SPF
P - N	2x4	DRY	No.2	SPF
M - G	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
REINFORCING MEMBERS				
HW2	2x6	DRY	No.2	SPF
ALL WEBS				
EXCEPT	2x3	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
T - R	2x4	DRY	No.2	SPF
B - R	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	5.0	8.0	
C	TMV+p	MT20	3.0	4.0	
D	TMVW-t	MT20	4.0	4.0	
E	TTWW-m	MT20	5.0	6.0	2.25 2.00
F	TTWW-t	MT20	4.0	4.0	
G	TMV+p	MT20	3.0	4.0	
H	TTWW-m	MT20	5.0	6.0	1.75 2.00
I	TMVW-t	MT20	5.0	8.0	2.25 3.00
J	TMBW-t	MT20	8.0	9.0	2.75 2.25
K	BMVW-w	MT20	2.0	4.0	
L	BMVW-t	MT20	6.0	10.0	3.00 3.50
M	BMV+p	MT20	3.0	4.0	
N	BVMW-WW-t	MT20	6.0	12.0	3.00 4.50
O	BS-t	MT20	4.0	4.0	
P	BS-t	MT20	3.0	6.0	
Q	BMVW-t	MT20	4.0	4.0	
R	BVMW-WW-t	MT20	6.0	12.0	3.25 4.00
S	BMV+p	MT20	3.0	4.0	
T	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		REQ'D	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
J		1625	0	1625	0	0	5-8	5-8	
T		1746	0	1746	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
J		1154	732 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0	
T		1237	798 / 0	0 / 0	0 / 0	0 / 0	439 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, T									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									

CHORDS					WEBS				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED	CS1 (LC)	MEMB.	FORCE (LBS)	MAX. FACTORED	CS1 (LC)	
FR-TO		FROM TO			FR-TO				
A-B	0 / 28	-84.9	-84.9	0.11 (1)	10.00	R-D	0 / 412	0.09 (1)	
B-C	-3031 / 0	-84.9	-84.9	0.18 (1)	3.89	D-Q	-485 / 0	0.21 (1)	
C-D	-3136 / 0	-84.9	-84.9	0.30 (1)	3.72	Q-E	0 / 438	0.10 (1)	
D-E	-2372 / 0	-84.9	-84.9	0.24 (1)	4.26	N-L	0 / 1829	0.29 (1)	
E-F	-2418 / 0	-84.9	-84.9	0.24 (1)	4.23	N-H	0 / 1102	0.25 (1)	
F-G	-2402 / 0	-84.9	-84.9	0.23 (1)	4.25	L-H	-202 / 0	0.14 (1)	
G-H	-2394 / 0	-84.9	-84.9	0.16 (1)	4.32	T-R	-165 / 0	0.02 (1)	
H-I	-2083 / 0	-84.9	-84.9	0.30 (1)	4.44	B-R	0 / 2605	0.42 (1)	
I-V	-1195 / 0	-84.9	-84.9	0.24 (1)	5.58	F-N	-26 / 0	0.02 (1)	
V-J	-1922 / 0	-84.9	-84.9	0.15 (1)	4.73	E-O	0 / 572	0.13 (1)	
T-B	-1645 / 0	0.0	0.0	0.11 (1)	7.68	O-F	-385 / 0	0.18 (1)	
T-S	0 / 141	-18.5	-18.5	0.03 (1)	10.00	K-I	0 / 104	0.04 (4)	
S-R	0 / 17	0.0	0.0	0.19 (1)	10.00	L-I	-388 / 0	0.26 (1)	
R-C	-159 / 0	0.0	0.0	0.15 (1)	7.81	U-V	0 / 822	0.00 (1)	
R-Q	0 / 2434	-18.5	-18.5	0.53 (1)	10.00	U-I	-1311 / 0	0.41 (1)	
Q-P	0 / 2056	-18.5	-18.5	0.46 (1)	10.00				
P-O	0 / 2056	-18.5	-18.5	0.46 (1)	10.00				
O-N	0 / 2418	-18.5	-18.5	0.44 (1)	10.00				
M-N	0 / 23	0.0	0.0	0.06 (1)	10.00				
N-G	-330 / 0	0.0	0.0	0.09 (1)	7.81				
M-L	0 / 41	-18.5	-18.5	0.09 (4)	10.00				
L-K	0 / 2113	-18.5	-18.5	0.39 (1)	10.00				
K-U	0 / 2114	-18.5	-18.5	0.39 (1)	10.00				
U-J	0 / 1050	-18.5	-18.5	0.18 (1)	10.00				

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH.	LL = 23.3 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 36.7 PSF
SPACING = 24.0 IN. C/C	
LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM	
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCS 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD	
ALLOWABLE DEFL.(LL)= L/360 (1.05")	
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.12")	
ALLOWABLE DEFL.(TL)= L/360 (1.05")	
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.27")	
CSI: TC=0.30/1.00 (C-D-1) , BC=0.53/1.00 (Q-R-1) , WB=0.42/1.00 (B-R-1) , SS=0.17/1.00 (H-I-1)	
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10	
COMPANION LIVE LOAD FACTOR = 1.00	
AUTOSOLVE HEELS OFF	
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.	
NAIL VALUES	
PLATE GRIP(DRY) SHEAR SECTION	
(PSI) (PLI) (PLI)	
MAX MIN MAX MIN MAX MIN	
MT20 650 371 1747 788 1987 1873	
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
JSI GRIP= 0.89 (H) (INPUT = 0.90)	
JSI METAL= 0.60 (P) (INPUT = 1.00)	

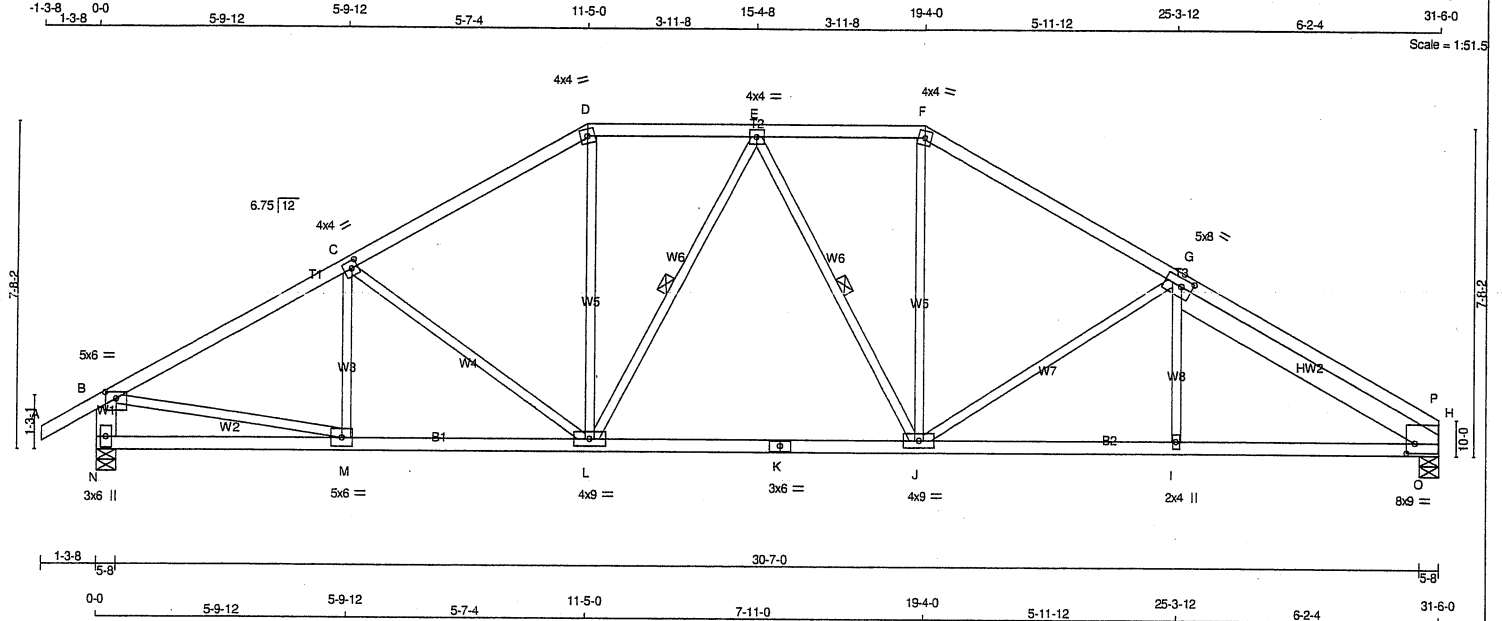


Structural component only
DWG# T-2126367

JOB NAME 420307	TRUSS NAME T28X	QUANTITY 1	PLY 1	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 - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
N - B	2x6	DRY	No.2	SPF
N - K	2x4	DRY	No.2	SPF
K - H	2x4	DRY	No.2	SPF

REINFORCING MEMBERS				
HW2	2x6	DRY	No.2	SPF
ALL WEBS				
EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.75	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	4.0		
G	TMVWW-t	MT20	5.0	8.0	2.25	3.00
H	TMBMW1-t	MT20	8.0	9.0	2.75	2.25
I	BMVW-w	MT20	2.0	4.0		
J	BMVWW-t	MT20	4.0	9.0		
K	BS-t	MT20	3.0	6.0		
L	BMVWW-t	MT20	4.0	9.0		
M	BMVWW-t	MT20	5.0	6.0		
N	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		REQ'D	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
H	1628	0	1628	0	0	5-8	5-8	5-8	5-8
N	1744	0	1744	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
H	1156	734 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0	
N	1235	797 / 0	0 / 0	0 / 0	0 / 0	438 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		W E B S		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 28	-84.9 -84.9	0.11 (1)	10.00	M-C	-204 / 12	0.06 (1)
B-C	-2174 / 0	-84.9 -84.9	0.44 (1)	4.20	C-L	-380 / 0	0.37 (1)
C-D	-1881 / 0	-84.9 -84.9	0.41 (1)	4.49	L-D	0 / 596	0.13 (1)
D-E	-1621 / 0	-84.9 -84.9	0.19 (1)	5.02	L-E	-271 / 0	0.13 (1)
E-F	-1662 / 0	-84.9 -84.9	0.19 (1)	4.97	E-J	-182 / 0	0.09 (1)
F-G	-1925 / 0	-84.9 -84.9	0.43 (1)	4.44	J-F	0 / 599	0.13 (1)
G-P	-1291 / 0	-84.9 -84.9	0.36 (1)	5.27	B-M	0 / 1943	0.44 (1)
P-H	-1991 / 0	-84.9 -84.9	0.21 (1)	4.60	I-G	0 / 118	0.04 (4)
N-B	-1696 / 0	0.0 0.0	0.11 (1)	7.60	J-G	-545 / 0	0.56 (1)
					O-P	0 / 767	0.00 (1)
					O-G	-1183 / 0	0.58 (1)
N-M	0 / 0	-18.5 -18.5	0.13 (4)	10.00			
M-L	0 / 1918	-18.5 -18.5	0.41 (1)	10.00			
L-K	0 / 1747	-18.5 -18.5	0.39 (1)	10.00			
K-J	0 / 1747	-18.5 -18.5	0.39 (1)	10.00			
J-I	0 / 2107	-18.5 -18.5	0.45 (1)	10.00			
I-O	0 / 2108	-18.5 -18.5	0.41 (1)	10.00			
O-H	0 / 1136	-18.5 -18.5	0.21 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.44/1.00 (B-C:1) , BC=0.45/1.00 (I-J:1) , WB=0.58/1.00 (G-O:1) , SSI=0.21/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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.

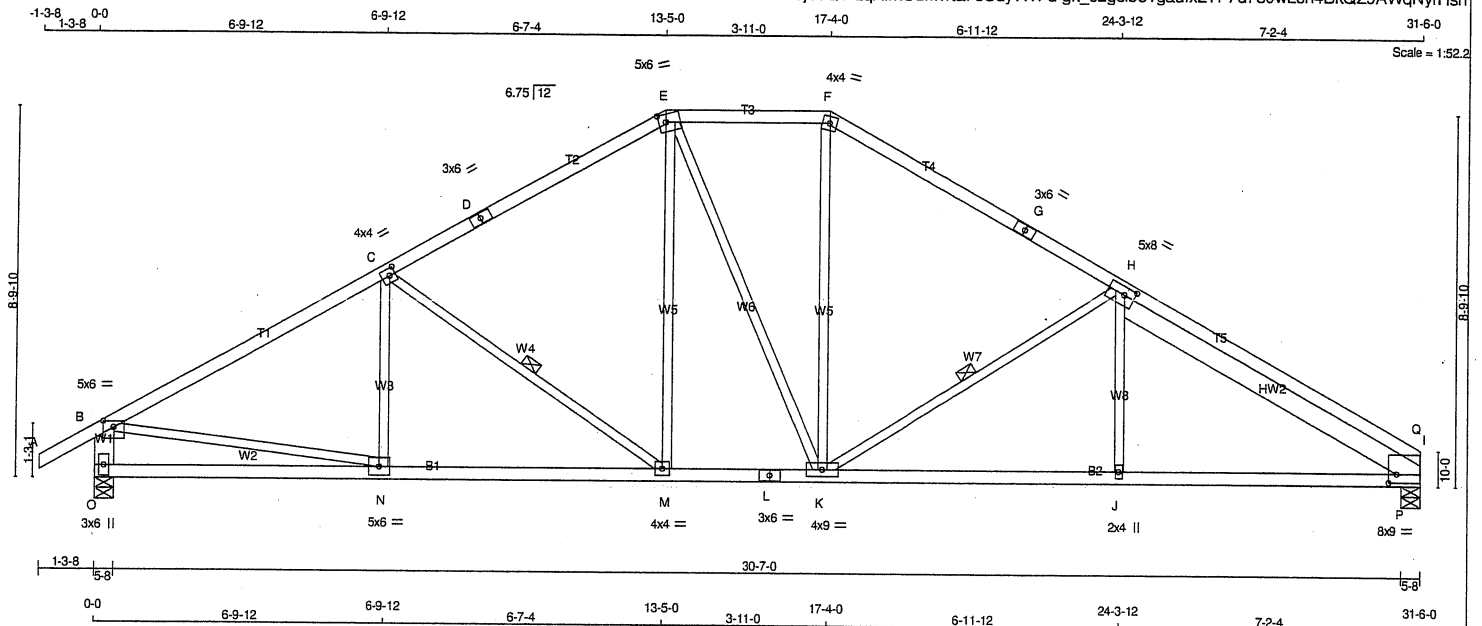
JSI GRIP= 0.88 (H) (INPUT = 0.90)
JSI METAL= 0.64 (K) (INPUT = 1.00)



Structural component only
DWG# T-2126342

[illegible]

JOB NAME 420307	TRUSS NAME T29X	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. Wed Aug 4 09:04:18 2021 Page 1 ID:3j58QWzqAirhOuMwta7eUuyvWFd-gk_o2gcibe?gauflTF7d780wLch4BkQZ9AWqNyrHsh			



TOTAL WEIGHT = 141 lb
[M/F]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
O - B	2x6	DRY	No.2
O - L	2x4	DRY	No.2
L - I	2x4	DRY	No.2

REINFORCING MEMBERS			
HW2	2x6	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	3.00
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTWV-m	MT20	5.0	6.0	2.25	2.00
F	TTW-m	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVWVW-t	MT20	5.0	8.0	2.25	3.00
I	TMBMW1-t	MT20	8.0	9.0	2.50	2.25
J	BMVW-w	MT20	2.0	4.0		
K	BMVWVW-t	MT20	4.0	9.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	4.0	4.0		
N	BMVW-t	MT20	5.0	6.0		
O	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	REORD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
O	1744	0	1744	0	5-8
I	1628	0	1628	0	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1235	797 / 0	0 / 0	0 / 0	0 / 0	438 / 0	0 / 0
I	1156	734 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX	MEMB.	MAX. FACTORED	FACTORED	MAX
FR-TO	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	FR-TO	FORCE (LBS)	MAX (LC)	
A-B	0 / 28	-84.9	-84.9 0.11 (1)	N-C	-125 / 67	0.05 (1)	
B-C	-2185 / 0	-84.9	-84.9 0.64 (1)	C-M	-563 / 0	0.26 (1)	
C-D	-1728 / 0	-84.9	-84.9 0.57 (1)	M-E	0 / 412	0.09 (1)	
D-E	-1728 / 0	-84.9	-84.9 0.57 (1)	E-K	0 / 48	0.01 (1)	
E-F	-1499 / 0	-84.9	-84.9 0.19 (1)	K-F	0 / 445	0.10 (1)	
F-G	-1746 / 0	-84.9	-84.9 0.59 (1)	B-N	0 / 1952	0.44 (1)	
G-H	-1746 / 0	-84.9	-84.9 0.59 (1)	J-H	0 / 153	0.05 (4)	
H-Q	-1390 / 0	-84.9	-84.9 0.51 (1)	K-H	-708 / 0	0.34 (1)	
Q-I	-2046 / 0	-84.9	-84.9 0.28 (1)	P-Q	0 / 694	0.00 (1)	
O-B	-1692 / 0	0.0	0.0 0.11 (1)	P-H	-1042 / 0	0.76 (1)	
O-N	0 / 0	-18.5	-18.5 0.21 (4)				
N-M	0 / 1934	-18.5	-18.5 0.42 (1)				
M-L	0 / 1480	-18.5	-18.5 0.31 (1)				
L-K	0 / 1480	-18.5	-18.5 0.31 (1)				
K-J	0 / 2087	-18.5	-18.5 0.44 (1)				
J-P	0 / 2088	-18.5	-18.5 0.44 (1)				
P-I	0 / 1224	-18.5	-18.5 0.23 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF	

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.64/1.00 (B-C:1), BC=0.44/1.00 (J-P:1),
WB=0.76/1.00 (H-P:1), SSI=0.24/1.00 (F-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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

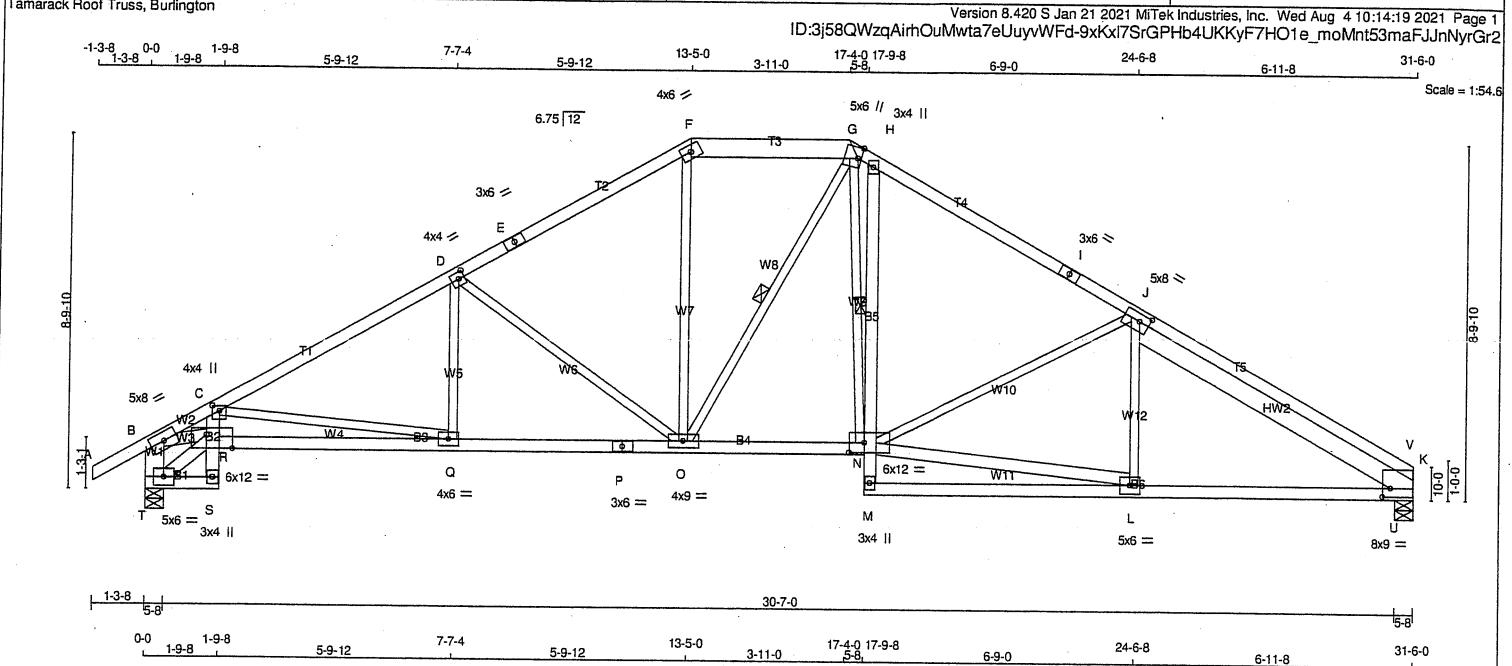
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.47 (L) (INPUT = 1.00)



Structural component only
DWG# T-2126343

JOB NAME 420570	TRUSS NAME T29XS	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
A - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x6	DRY	No.2
G - I	2x4	DRY	No.2
I - K	2x4	DRY	No.2
T - B	2x6	DRY	No.2
T - S	2x4	DRY	No.2
S - C	2x4	DRY	No.2
R - P	2x4	DRY	No.2
P - N	2x4	DRY	No.2
M - H	2x4	DRY	No.2
M - K	2x4	DRY	No.2
REINFORCING MEMBERS			
HW2	2x6	DRY	No.2
ALL WEBS			
N - L	2x4	DRY	No.2
T - R	2x4	DRY	No.2
B - R	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	5.0	8.0
C	TMVW+p	MT20	4.0	4.0 1.50 2.00
D	TMVW-t	MT20	4.0	4.0 2.00 1.75
E	TS-t	MT20	3.0	6.0
F	TTW-h	MT20	4.0	6.0
G	TTWW+m	MT20	5.0	6.0 3.25 1.00
H	TMV+p	MT20	3.0	4.0
I	TS-t	MT20	3.0	6.0
J	TMVWW-t	MT20	5.0	8.0 2.25 3.00
K	TMBMW1-t	MT20	8.0	9.0 2.50 2.25
L	BMVW-t	MT20	5.0	6.0
M	BMV+p	MT20	3.0	4.0
N	BVMWW-t	MT20	6.0	12.0 3.00 4.50
O	BMVWW-t	MT20	4.0	9.0
P	BS-t	MT20	3.0	6.0
Q	BMVW-t	MT20	4.0	6.0
R	BVMWW-t	MT20	6.0	12.0 Edge 7.50

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

BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT REQRD BRG
K	1625 0	1625 0	5-8
T	1746 0	1746 0	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	1154	732 / 0	0 / 0	0 / 0	0 / 0	422 / 0	0 / 0
T	1237	798 / 0	0 / 0	0 / 0	0 / 0	439 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.60 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-84.9	-84.9 0.11 (1)	C-Q	-1033 / 0	0.66 (1)	
B-C	-3533 / 0	-84.9	-84.9 0.21 (1)	Q-D	0 / 198	0.06 (4)	
C-D	-2618 / 0	-84.9	-84.9 0.51 (1)	D-O	-765 / 0	0.74 (1)	
D-E	-1963 / 0	-84.9	-84.9 0.44 (1)	O-F	0 / 595	0.13 (1)	
E-F	-1963 / 0	-84.9	-84.9 0.44 (1)	F-G	0 / 2064	0.33 (1)	
F-G	-1681 / 0	-84.9	-84.9 0.10 (1)	G-H	-347 / 0	0.38 (1)	
G-H	-2184 / 0	-84.9	-84.9 0.23 (1)	H-I	-164 / 46	0.05 (1)	
H-I	-2049 / 0	-84.9	-84.9 0.47 (1)	I-J	-211 / 0	0.02 (1)	
I-J	-2049 / 0	-84.9	-84.9 0.47 (1)	J-K	0 / 3083	0.50 (1)	
J-K	-1396 / 0	-84.9	-84.9 0.41 (1)	K-L	0 / 1128	0.25 (1)	
K-L	-2019 / 0	-84.9	-84.9 0.29 (1)	L-M	-39 / 0	0.02 (1)	
L-M	-1612 / 0	0.0	0.0 0.11 (1)	M-N	0 / 659	0.00 (1)	
M-N	0 / 175	-18.5	-18.5 0.04 (1)	N-O	-1034 / 0	0.69 (1)	
N-O	0 / 17	0.0	0.0 0.27 (1)	O-P			
O-P	0 / 341	0.0	0.0 0.32 (1)	P-Q			
P-Q	0 / 3327	-18.5	-18.5 0.61 (1)	Q-R			
Q-R	0 / 2304	-18.5	-18.5 0.44 (1)	R-S			
R-S	0 / 2304	-18.5	-18.5 0.44 (1)	S-T			
S-T	0 / 1700	-18.5	-18.5 0.34 (1)	T-U			
T-U	0 / 54	0.0	0.0 0.06 (1)	U-V			
U-V	-574 / 0	0.0	0.0 0.07 (1)	V-W			
V-W	0 / 40	-18.5	-18.5 0.20 (4)	W-X			
W-X	0 / 2079	-18.5	-18.5 0.45 (1)	X-Y			
X-Y	0 / 1223	-18.5	-18.5 0.21 (1)	Y-Z			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.51/1.00 (C-D:1), BC=0.61/1.00 (Q-R:1), WB=0.74/1.00 (D-O:1), SS=0.22/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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= 0.87 (L) (INPUT = 0.90)
JSI METAL= 0.66 (P) (INPUT = 1.00)



Structural component only
DWG# T-2126369

JOB NAME 420570	TRUSS NAME T29XS	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
S	BMV+p	MT20	3.0	4.0		
T	BMVW1-t	MT20	5.0	6.0		

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

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

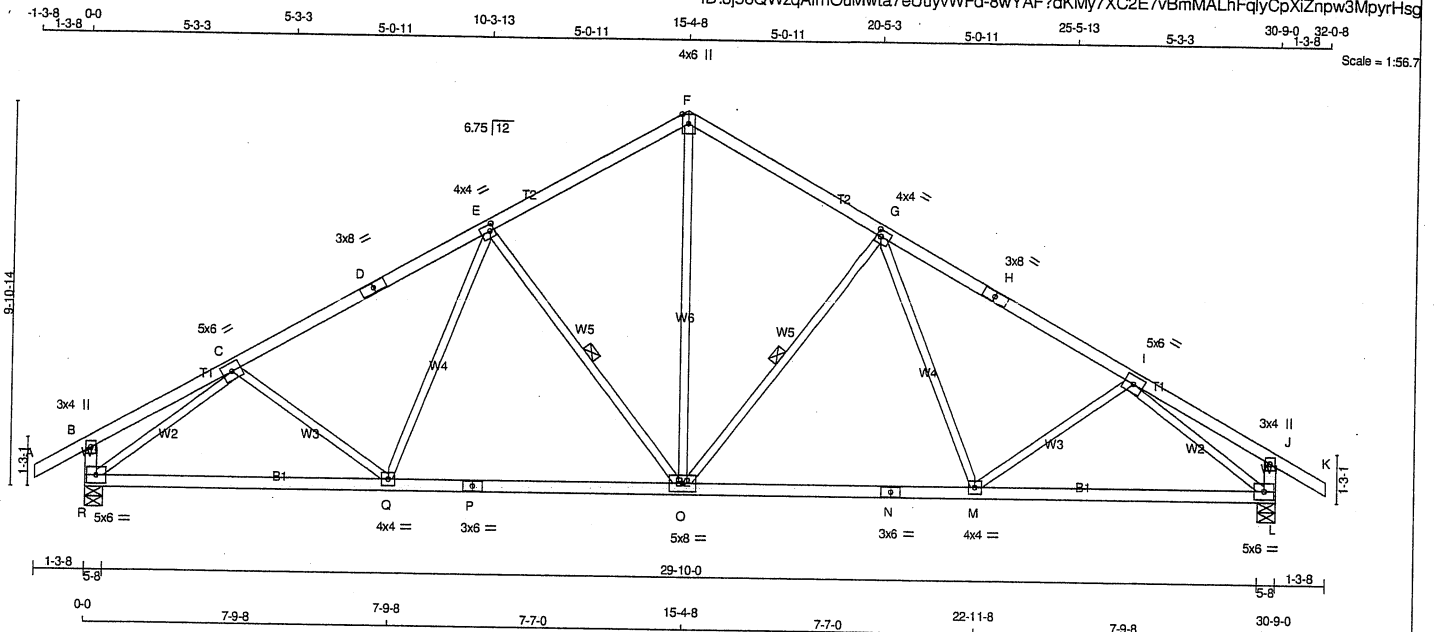


Structural component only
DWG# T-2126369 *mn*

JOB NAME 420307	TRUSS NAME T30	QUANTITY 9	PLY 1	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:3j58QWzqAirhOuMwta7eUuyvWfd-8wYAF?dKMy7XC2E7VBmMALhFqlyCpXiZnpw3MpyrHsg



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	MT20	5.0	6.0	
D	TS-t	MT20	3.0	8.0	
E	TMWW-t	MT20	4.0	4.0	2.00 1.25
F	TTW+p	MT20	4.0	6.0	Edge
G	TMWW-t	MT20	4.0	4.0	2.00 1.25
H	TS-t	MT20	3.0	8.0	
I	TMWW-t	MT20	5.0	6.0	
J	TMV+p	MT20	3.0	4.0	
L	BMVW1-t	MT20	5.0	6.0	
M	BMWW-t	MT20	4.0	4.0	
N	BS-t	MT20	3.0	6.0	
O	BMWW-t	MT20	5.0	8.0	
P	BS-t	MT20	3.0	6.0	
Q	BMWW-t	MT20	4.0	4.0	
R	BMVW1-t	MT20	5.0	6.0	

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
R	1705	0	1705	0	0	5-8	5-8	5-8	5-8
L	1705	0	1705	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1208	780 / 0	0 / 0	0 / 0	0 / 0	428 / 0	0 / 0
L	1208	780 / 0	0 / 0	0 / 0	0 / 0	428 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.41 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 G-O, 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		MAX. FACTORED		FACTORED		W E B S		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	CS1 (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX	CS1 (LC)
FR-TO		FROM	TO		LENGTH	FR-TO			
A-B	0 / 28	-84.9	-84.9	0.11 (1)	10.00	O-F	0 / 1133	0.25 (1)	
B-C	0 / 30	-84.9	-84.9	0.31 (1)	10.00	O-G	-624 / 0	0.30 (1)	
C-D	-1973 / 0	-84.9	-84.9	0.44 (1)	4.41	G-M	0 / 195	0.05 (4)	
D-E	-1973 / 0	-84.9	-84.9	0.44 (1)	4.41	M-I	-40 / 55	0.02 (4)	
E-F	-1500 / 0	-84.9	-84.9	0.36 (1)	4.97	E-O	-624 / 0	0.30 (1)	
F-G	-1500 / 0	-84.9	-84.9	0.36 (1)	4.97	Q-E	0 / 195	0.05 (4)	
G-H	-1973 / 0	-84.9	-84.9	0.44 (1)	4.41	C-Q	-40 / 55	0.02 (4)	
H-I	-1973 / 0	-84.9	-84.9	0.44 (1)	4.41	R-C	-2268 / 0	0.84 (1)	
I-J	0 / 30	-84.9	-84.9	0.31 (1)	10.00	I-L	-2268 / 0	0.84 (1)	
J-K	0 / 28	-84.9	-84.9	0.11 (1)	10.00				
R-B	-212 / 0	0.0	0.0	0.02 (1)	7.81				
L-J	-212 / 0	0.0	0.0	0.02 (1)	7.81				
R-Q	0 / 1757	-18.5	-18.5	0.42 (1)	10.00				
Q-P	0 / 1656	-18.5	-18.5	0.41 (4)	10.00				
P-O	0 / 1656	-18.5	-18.5	0.41 (4)	10.00				
O-N	0 / 1656	-18.5	-18.5	0.41 (4)	10.00				
N-M	0 / 1656	-18.5	-18.5	0.41 (4)	10.00				
M-L	0 / 1757	-18.5	-18.5	0.42 (1)	10.00				

TOTAL WEIGHT = 9 X 128 = 1153 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.44/1.00 (G-I:1), BC=0.42/1.00 (L-M:1), WB=0.84/1.00 (I-L:1), SSI=0.20/1.00 (G-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

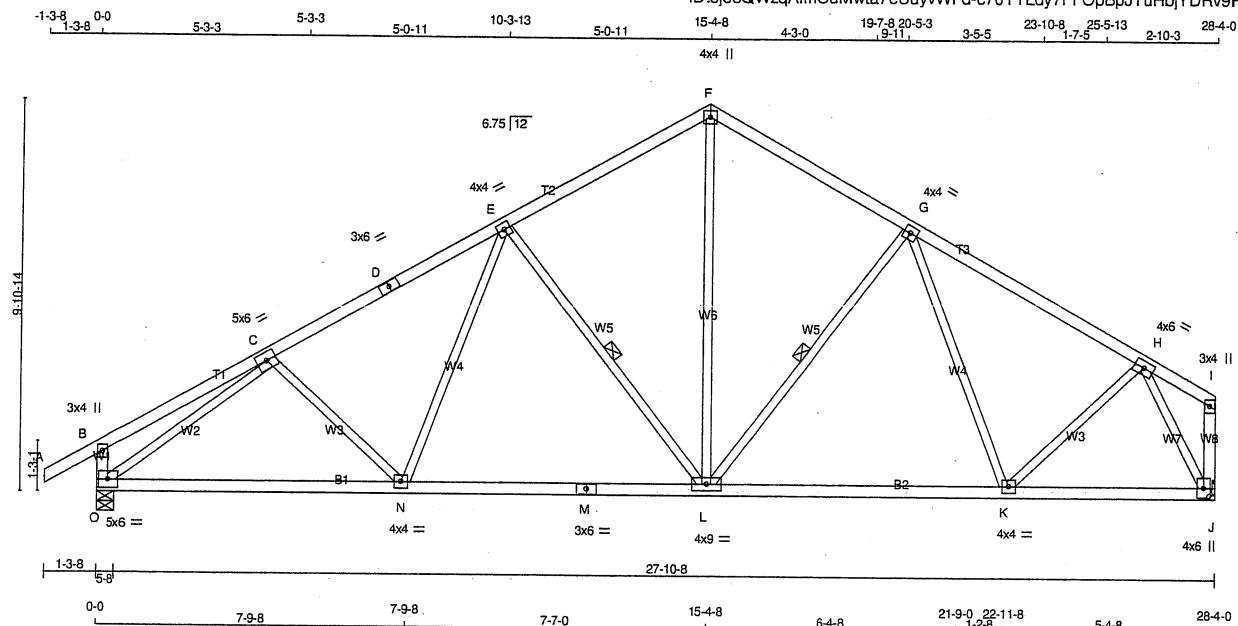
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (R) (INPUT = 0.90)
JSI METAL= 0.50 (C) (INPUT = 1.00)



Structural component only
DWG# T-2126344



Scale = 1:55.6

TOTAL WEIGHT = $2 \times 121 = 242$ lb

[MIF]

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
O - B	2x4	DRY	No.2	SPF
J - I	2x4	DRY	No.2	SPF
O - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

J	T	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	5.0	6.0		
D	TS-t	MT20	3.0	6.0		
E	TMWW-t	MT20	4.0	4.0		
F	TTW+p	MT20	4.0	4.0		
G	TMWW-t	MT20	4.0	4.0		
H	TMWW-t	MT20	4.0	6.0		
I	TMV+p	MT20	3.0	4.0		
J	BMVV1+p	MT20	4.0	6.0		
K	BMWW-t	MT20	4.0	4.0		
L	BMWWW-t	MT20	4.0	9.0		
M	BS-t	MT20	3.0	6.0		
N	BMWW-t	MT20	4.0	4.0		
O	BMVV1-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	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
O	1580	0	1580	0	0	5-8	5-8
J	1464	0	1464	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1119	723 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
J	1039	660 / 0	0 / 0	0 / 0	0 / 0	380 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	FACTORED LO. C1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	MAX. UNBRAC LENGTH	FR-TO		
A-B	0 / 28	-84.9	-84.9 0.11 (1)	10.00	C-N	-100 / 30	0.04 (1)
B-C	0 / 23	-84.9	-84.9 0.28 (1)	10.00	N-E	0 / 241	0.06 (4)
C-D	-1773 / 0	-84.9	-84.9 0.35 (1)	4.69	E-L	-629 / 0	0.31 (1)
D-E	-1773 / 0	-84.9	-84.9 0.35 (1)	4.69	L-F	0 / 887	0.20 (1)
E-F	-1268 / 0	-84.9	-84.9 0.31 (1)	5.37	L-G	-311 / 0	0.15 (1)
F-G	-1269 / 0	-84.9	-84.9 0.32 (1)	5.36	G-K	-255 / 0	0.25 (1)
G-H	-1350 / 0	-84.9	-84.9 0.33 (1)	5.23	K-H	0 / 538	0.12 (1)
H-I	0 / 48	-84.9	-84.9 0.25 (1)	10.00	C-C	-2082 / 0	0.98 (1)
O-B	-249 / 0	0.0	0.0 0.03 (1)	7.81	H-J	-1652 / 0	0.40 (1)
J-I	0 / 21	0.0	0.0 0.00 (1)	10.00			
C-N	0 / 1622	-18.5	-18.5 0.40 (4)	10.00			
N-M	0 / 1466	-18.5	-18.5 0.39 (4)	10.00			
M-L	0 / 1466	-18.5	-18.5 0.39 (4)	10.00			
L-K	0 / 1272	-18.5	-18.5 0.32 (1)	10.00			
K-J	0 / 793	-18.5	-18.5 0.25 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL =	23.3	PSF
		DL =	6.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.4	PSF
TOTAL LOAD		=	36.7	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15")

CSI: TC=0.35/1.00 (C-E:1) , BC=0.40/1.00 (N-O:4) ,
WB=0.98/1.00 (C-O:1) , SSI=0.18/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

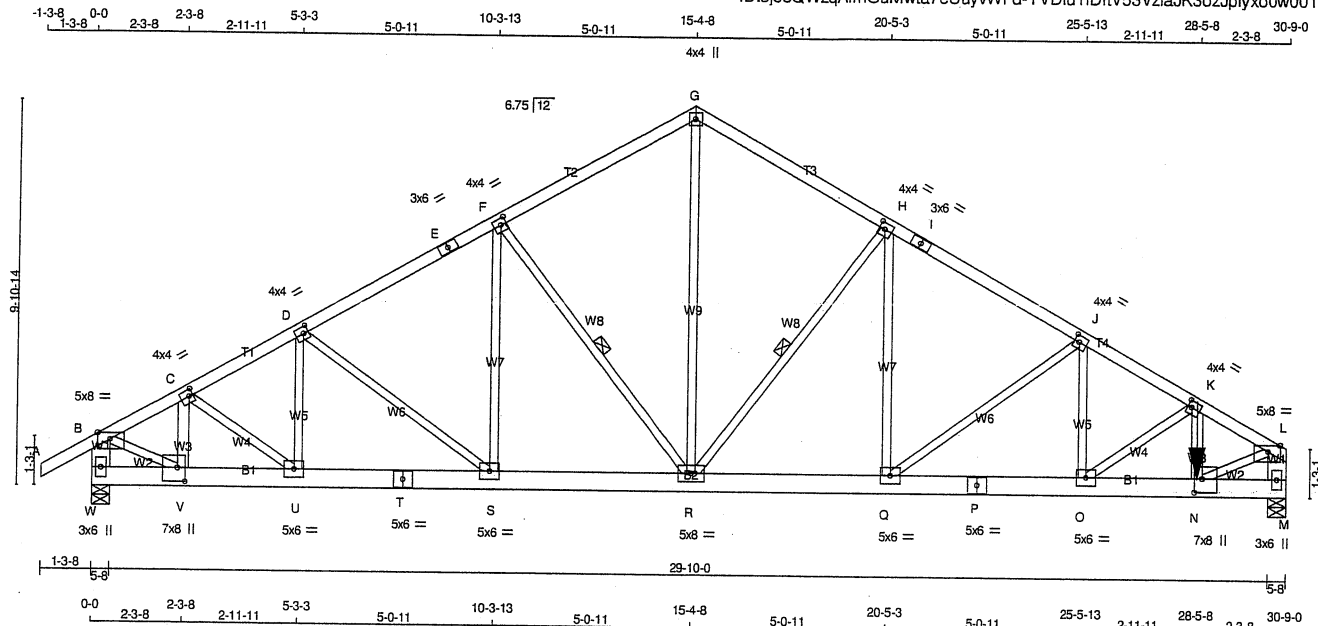
PLATE ROTATION TOL. = 5.0 Deg

JSI GRIP= 0.82 (O) (INPUT = 0.90)
JSI METAL= 0.51 (M) (INPUT = 1.00)



Structural component only
DWG# T-2126345

JOB NAME 420307	TRUSS NAME T31	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
A - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
W - B	2x6	DRY	No.2
M - L	2x6	DRY	No.2
W - T	2x6	DRY	No.2
T - P	2x6	DRY	No.2
P - M	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
N - K	2x4	DRY	No.2
V - C	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-E	12	TOP
E-G	12	TOP
G-I	12	TOP
I-L	12	TOP
W-B	12	TOP
M-L	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W-T	9	TOP
T-P	12	TOP
P-M	9	SIDE(305.2)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	SIDE(831.9)
N-K	2	
2x4	2	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX
W	2030	0	0	2030	0	0	0	5-8	5-8
M	5623	0	0	5623	0	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
W	1438	928 / 0	0 / 0	0 / 0	510 / 0	0 / 0
M	3986	2562 / 0	0 / 0	0 / 0	1424 / 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 = 3.71 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX. FORCE	LC1 MAX
FR-TO		FROM	TO	FR-TO			
A-B	0 / 28	-84.9	-84.9 0.06 (1)	R-G	0 / 1705	0.21 (1)	
B-C	-2162 / 0	-84.9	-84.9 0.05 (1)	R-H	-1395 / 0	0.34 (1)	
C-D	-2615 / 0	-84.9	-84.9 0.11 (1)	Q-H	0 / 1093	0.14 (1)	
D-E	-2481 / 0	-84.9	-84.9 0.21 (1)	Q-J	-1708 / 0	0.61 (1)	
E-F	-2481 / 0	-84.9	-84.9 0.21 (1)	O-J	0 / 1411	0.17 (1)	
F-G	-2108 / 0	-84.9	-84.9 0.20 (1)	F-R	-585 / 0	0.14 (1)	
G-H	-2108 / 0	-84.9	-84.9 0.20 (1)	S-F	0 / 169	0.03 (4)	
H-I	-3044 / 0	-84.9	-84.9 0.23 (1)	D-S	-152 / 0	0.05 (1)	
I-J	-3044 / 0	-84.9	-84.9 0.23 (1)	U-D	-191 / 0	0.03 (1)	
J-K	-4586 / 0	-84.9	-84.9 0.17 (1)	N-K	0 / 1895	0.17 (1)	
K-L	-6440 / 0	-84.9	-84.9 0.21 (1)	N-L	0 / 5981	0.74 (1)	
W-B	-1974 / 0	0.0	0.0 0.07 (1)	O-K	-1944 / 0	0.24 (1)	
M-L	-5375 / 0	0.0	0.0 0.19 (1)	V-C	-720 / 0	0.04 (1)	
				B-V	0 / 2016	0.25 (1)	
				C-U	0 / 500	0.06 (1)	
W-V	0 / 0	-18.5	-18.5 0.03 (1)				
V-U	0 / 1888	-18.5	-18.5 0.15 (1)				
U-T	0 / 2293	-18.5	-18.5 0.17 (1)				
T-S	0 / 2293	-18.5	-18.5 0.17 (1)				
S-R	0 / 2171	-18.5	-18.5 0.17 (1)				
R-Q	0 / 2661	-18.5	-18.5 0.20 (1)				
Q-P	0 / 4024	-18.5	-18.5 0.28 (1)				
P-O	0 / 4024	-18.5	-18.5 0.28 (1)				
O-N	0 / 5600	-18.5	-18.5 0.56 (1)				
N-M	0 / 0	-18.5	-18.5 0.19 (1)				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
N	28-5-8	-3088			BACK	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.02")
CALCULATED VERT. DEFL.(LL)= L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (1.02")
CALCULATED VERT. DEFL.(TL)= L/999 (0.12")

CSI: TC=0.23/1.00 (H-J:1), BC=0.56/1.00 (N-O:1), WB=0.74/1.00 (L-N:1), SS=0.10/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (N) (INPUT = 0.90)
JSI METAL= 0.72 (N) (INPUT = 1.00)



Structural component only
DWG# T-2126346

CONTINUED ON PAGE 2

JOB NAME 420307	TRUSS NAME T31	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	3.75
C	TMWW-t	MT20	4.0	4.0	2.00	1.25
D	TMWW-t	MT20	4.0	4.0	2.00	1.50
E	TS-t	MT20	3.0	6.0		
F	TMWW-t	MT20	4.0	4.0	2.00	1.75
G	TTW+p	MT20	4.0	4.0		
H	TMWW-t	MT20	4.0	4.0	2.00	1.75
I	TS-t	MT20	3.0	6.0		
J	TMWW-t	MT20	4.0	4.0	2.00	1.50
K	TMWW-t	MT20	4.0	4.0	2.00	1.25
L	TMVW-p	MT20	5.0	8.0	Edge	3.75
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-t	MT20	7.0	8.0	4.25	2.50
O, Q, S, U						
O	BMWW-t	MT20	5.0	6.0		
P	BS-t	MT20	5.0	6.0		
R	BMWWWW-t	MT20	5.0	8.0		
T	BS-t	MT20	5.0	6.0		
V	BMWW-t	MT20	7.0	8.0	4.25	2.50
W	BMV1+p	MT20	3.0	6.0		

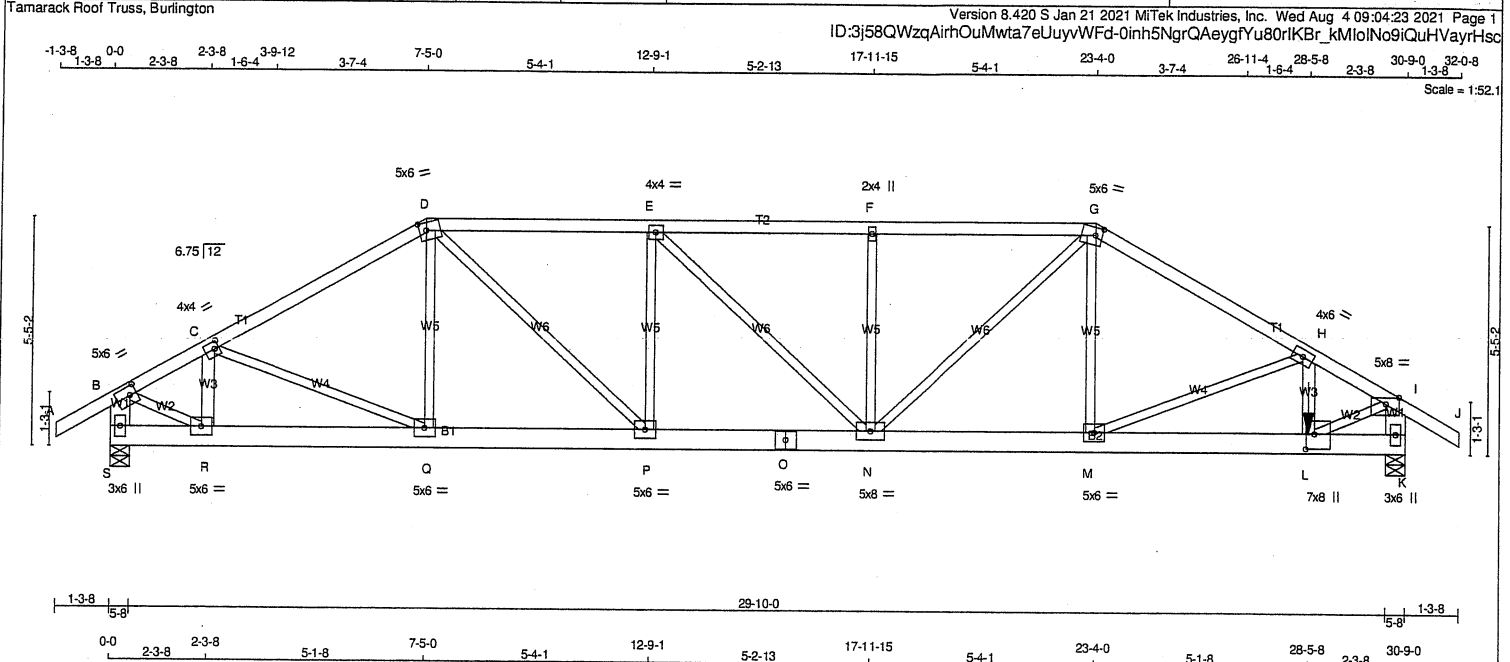
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

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



Structural component only
DWG# T-2126346 *in*

JOB NAME 420307	TRUSS NAME T32	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 09:04:23 2021 Page 1 ID:3j58QWzqAihRouMwta7eUuyvWFd-0inh5NgrQAeygfYu80rIKBr_kMloIno9iQuHVayrHsc			



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
S - B	2x6	DRY	No.2
K - I	2x6	DRY	No.2
S - O	2x6	DRY	No.2
O - K	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
L - H	2x4	DRY	No.2
R - C	2x4	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-D 1	12	TOP
D-G 1	12	TOP
G-J 1	12	TOP
S-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-O 2	12	TOP
O-K 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE(183.1)
L-H 2	6	SIDE(852.6)
2x4 1	6	SIDE(852.6)

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	REQ'D BRG
JT	VERT	HORZ	DOWN	UPLIFT	IN-SX
S	2001	0	2001	0	5-8
K	5379	0	5379	0	5-8

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	1418	915 / 0	0 / 0	0 / 0	0 / 0	503 / 0	0 / 0
K	3811	2461 / 0	0 / 0	0 / 0	0 / 0	1350 / 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 = 3.79 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 28	Q-D	0 / 77
B-C	-2189 / 0	D-P	0 / 1263
C-D	-2570 / 0	P-E	-771 / 0
D-E	-3141 / 0	E-N	0 / 410
E-F	-3436 / 0	N-F	-482 / 0
F-G	-3436 / 0	G-H	0 / 358
G-H	-3632 / 0	H-I	0 / 1148
H-I	-6106 / 0	I-J	0 / 1736
I-J	0 / 28	J-K	-2370 / 0
S-B	-1952 / 0	K-L	0 / 5707
K-I	-5169 / 0	L-M	-710 / 0
		M-N	0 / 2075
		N-O	0 / 302
S-R	0 / 0		
R-Q	0 / 1943		
Q-P	0 / 2223		
P-O	0 / 3141		
O-N	0 / 3141		
N-M	0 / 3176		
M-L	0 / 5344		
L-K	0 / 0		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
L	28-5-8	-2813	-2813	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.25/1.00 (G-H:1), BC=0.51/1.00 (L-M:1),
WB=0.71/1.00 (L-L:1), SSI=0.12/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

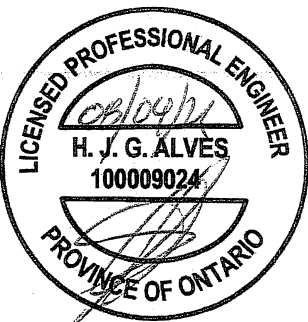
NAIL VALUES

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= 0.86 (I) (INPUT = 0.90)
JSI METAL= 0.69 (L) (INPUT = 1.00)



Structural component only
DWG# T-2126347

CONTINUED ON PAGE 2

JOB NAME 420307	TRUSS NAME T32	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 09:04:23 2021 Page 2
ID:3i58QWzgAirhOuMwta7eUuyvWFD-0inh5NgrQAeygfYu80rIKBr kMloINo9iQuHVayrHsc

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	2.00
C	TMWW-t	MT20	4.0	4.0	2.00	1.25
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMWW-t	MT20	4.0	4.0		
F	TMW+w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	6.0	2.25	2.00
H	TMWW-t	MT20	4.0	6.0		
I	TMVW-p	MT20	5.0	8.0	Edge	3.75
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-t	MT20	7.0	8.0	4.25	2.50
M, P, Q, R						
M	BMWW-t	MT20	5.0	6.0		
N	BMWWW-t	MT20	5.0	8.0		
O	BS-t	MT20	5.0	6.0		
S	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

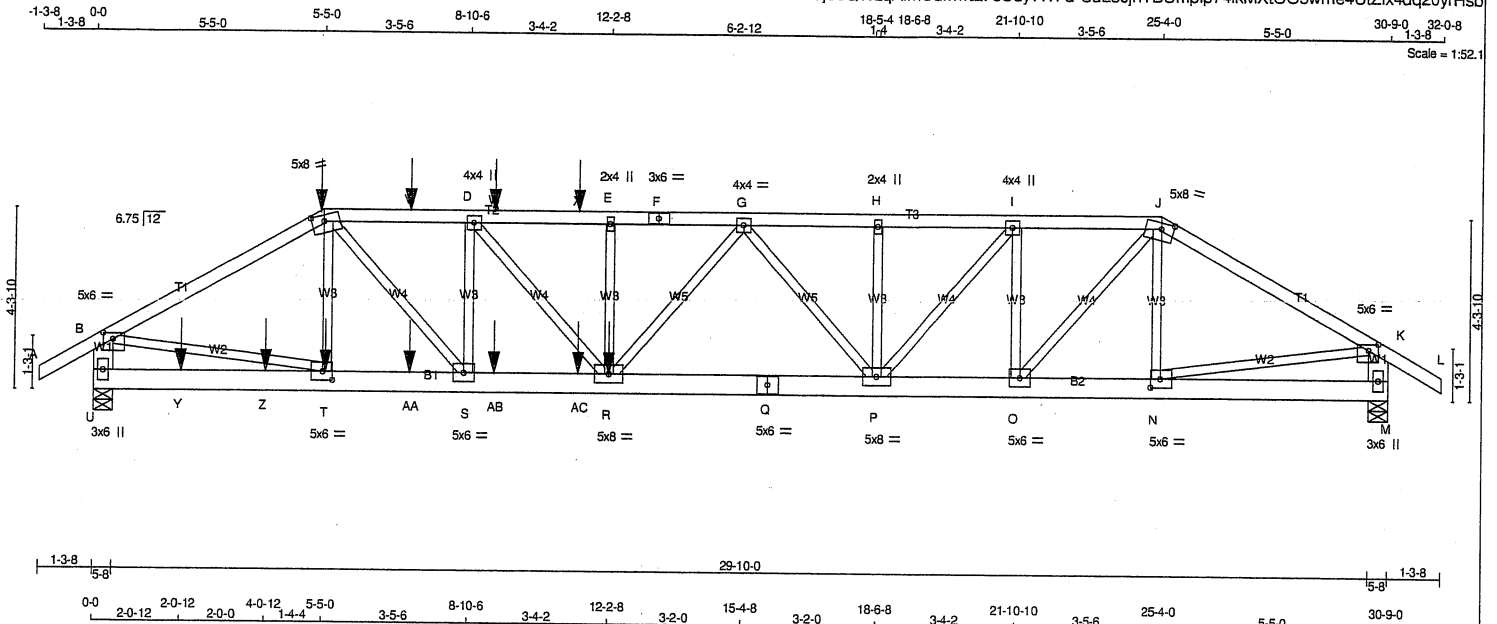
1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only
DWG# T-2126347 312

JOB NAME 420307	TRUSS NAME T33	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 09:04:24 2021 Page 1
ID:3j58QWzqAirhOuMwta7eUuyvWfD-UuL3JhTBUmpl74ikMXtOO5wme4UtZlx4dq20yrHsb



CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - J	2x4	DRY	No.2
J - L	2x4	DRY	No.2
U - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
U - Q	2x6	DRY	No.2
Q - M	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(61.0)
C-F	12	SIDE(61.0)
F-J	12	TOP
J-L	12	TOP
U-B	2	TOP
M-K	2	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
U-Q	12	SIDE(183.1)
Q-M	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
T-C	1	SIDE(4.2)
R-E	1	SIDE(254.1)
2x3	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
U	3563	0	3563	0
M	2631	0	2631	0

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
U	2523	1637 / 0	0 / 0	0 / 0	886 / 0
M	1862	1213 / 0	0 / 0	0 / 0	648 / 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 = 3.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	UNBRAC	WEBS	MAX. FACTORED	MAX
MEMB.	FORCE (LBS)	VERT. (PLF)	CSI (LC)	MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX	CSI (LC)	MAX
FR-TO						FR-TO				
A-B	0 / 28	-84.9	-84.9	0.06 (1)	10.00	T-C	-508 / 0	0.07 (1)		
B-C	-5004 / 0	-84.9	-84.9	0.42 (1)	3.99	N-J	-390 / 0	0.05 (1)		
C-V	-6176 / 0	-84.9	-84.9	0.28 (1)	3.72	B-T	0 / 4410	0.55 (1)		
V-D	-6176 / 0	-84.9	-84.9	0.28 (1)	3.72	N-K	0 / 3139	0.39 (1)		
D-W	-7326 / 0	-84.9	-84.9	0.34 (1)	3.38	R-E	-371 / 0	0.05 (1)		
W-X	-7326 / 0	-84.9	-84.9	0.34 (1)	3.38	P-H	-255 / 0	0.03 (1)		
X-E	-7326 / 0	-84.9	-84.9	0.34 (1)	3.38	D-R	0 / 1773	0.22 (1)		
E-F	-7326 / 0	-84.9	-84.9	0.24 (1)	3.49	C-S	0 / 2773	0.34 (1)		
F-G	-7326 / 0	-84.9	-84.9	0.24 (1)	3.49	S-D	-1945 / 0	0.26 (1)		
G-H	-5858 / 0	-84.9	-84.9	0.17 (1)	3.92	O-J	0 / 2363	0.29 (1)		
H-I	-5858 / 0	-84.9	-84.9	0.19 (1)	3.91	P-I	0 / 1859	0.23 (1)		
I-J	-4853 / 0	-84.9	-84.9	0.15 (1)	4.35	O-I	-1725 / 0	0.23 (1)		
J-K	-3562 / 0	-84.9	-84.9	0.33 (1)	4.66	R-G	0 / 987	0.12 (1)		
K-L	0 / 28	-84.9	-84.9	0.06 (1)	10.00	G-P	-1351 / 0	0.29 (1)		
U-B	-3483 / 0	0.0	0.0	0.12 (1)	7.49					
M-K	-2579 / 0	0.0	0.0	0.09 (1)	7.81					

U-Y	0 / 0	-18.5	-18.5	0.06 (4)	10.00
Y-Z	0 / 0	-18.5	-18.5	0.06 (4)	10.00
Z-T	0 / 0	-18.5	-18.5	0.06 (4)	10.00
T-AA	0 / 4344	-18.5	-18.5	0.31 (1)	10.00
AA-S	0 / 4344	-18.5	-18.5	0.31 (1)	10.00
S-AB	0 / 6176	-18.5	-18.5	0.46 (1)	10.00
AB-AC	0 / 6176	-18.5	-18.5	0.46 (1)	10.00
AC-R	0 / 6176	-18.5	-18.5	0.46 (1)	10.00
R-Q	0 / 6706	-18.5	-18.5	0.50 (1)	10.00
Q-P	0 / 6706	-18.5	-18.5	0.50 (1)	10.00
P-O	0 / 4653	-18.5	-18.5	0.32 (1)	10.00
O-N	0 / 3092	-18.5	-18.5	0.22 (1)	10.00
N-M	0 / 0	-18.5	-18.5	0.03 (4)	10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-5-0	-335	-335	---	BACK	VERT	TOTAL	---	C1
R	12-2-8	-1182	-1182	---	BACK	VERT	TOTAL	---	C1
T	5-5-12	-25	-25	---	BACK	VERT	TOTAL	---	C1
V	7-5-12	-100	-100	---	BACK	VERT	TOTAL	---	C1
W	9-5-12	-100	-100	---	BACK	VERT	TOTAL	---	C1
X	11-5-12	-100	-100	---	BACK	VERT	TOTAL	---	C1
Y	2-0-12	-25	-25	---	BACK	VERT	TOTAL	---	C1
Z	4-0-12	-25	-25	---	BACK	VERT	TOTAL	---	C1
AA	7-5-12	-25	-25	---	BACK	VERT	TOTAL	---	C1
AB	9-5-12	-25	-25	---	BACK	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.02")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.02")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TC=0.42/1.00 (B-C:1), BC=0.50/1.00 (P-R:1), WB=0.55/1.00 (B-T:1), CSI=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (C) (INPUT = 0.90)
JSI METAL = 0.65 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2126348

CONTINUED ON PAGE 2

JOB NAME 420307	TRUSS NAME T33	QUANTITY 1	PLY 2	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
B	TMVW-p	MT20	5.0	6.0	1.75	2.75
C	TTWW-m	MT20	5.0	8.0	1.75	3.50
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	TMW-w	MT20	2.0	4.0		
I	TMVW-t	MT20	4.0	4.0		
J	TTWW-m	MT20	5.0	8.0	1.75	3.50
K	TMVW-p	MT20	5.0	6.0	1.75	2.75
M	BMV1+p	MT20	3.0	6.0		
N	BMVW-t	MT20	5.0	6.0	2.50	2.75
O	BMVW-t	MT20	5.0	6.0		
P	BMVWW-t	MT20	5.0	8.0		
Q	BS-t	MT20	5.0	6.0		
R	BMVWW-t	MT20	5.0	8.0		
S	BMVW-t	MT20	5.0	6.0		
T	BMVW-t	MT20	5.0	6.0	2.50	2.75
U	BMV1+p	MT20	3.0	6.0		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
AC	11-5-12	-25	-25	--	BACK	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

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

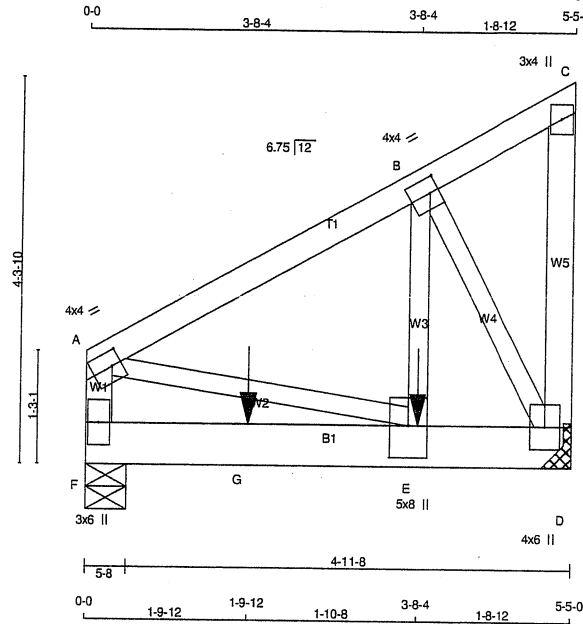
NOTES- (1)

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



Structural component only
DWG# T-2126348 *in*

JOB NAME 420307	TRUSS NAME T34	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 09:04:25 2021 Page 1 ID:3j58QWzqAirhOuMwta7eUuyvWFd-y4vRW3h5yougwzHFRtmQcxLpA4HDPoSakNoaTyrHsa			



Scale = 1/24.5

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A 1	12	TOP
A-C 1	12	TOP
C-D 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
E-B 1	3	SIDE(323.3)
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	4.0	2.00	1.25
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TMV+p	MT20	3.0	4.0		
D	BMVW1+p	MT20	4.0	6.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	1084	0	1084	0	0
D	1694	0	1694	0	0

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	764	515 / 0	0 / 0	0 / 0	0 / 0	249 / 0	0 / 0
D	1197	791 / 0	0 / 0	0 / 0	0 / 0	406 / 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)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-A	-885 / 0	E-B	0 / 1833
A-B	-1071 / 0	A-E	0 / 968
B-C	-22 / 0	B-D	-1856 / 0
D-C	-28 / 0		
F-G	0 / 0		
G-E	0 / 0		
E-D	0 / 943		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-8-4	-1373	-1373	---	BACK	VERT	TOTAL	---	C1
G	1-9-12	-191	-191	---	TOP	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

DESIGN CRITERIA

SPECIFIED LOADS:	
TOP CH. LL	= 23.3 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.09/1.00 (A-B:1) , BC=0.12/1.00 (E-F:1) ,
WB=0.23/1.00 (B-E:1) , SS=0.07/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

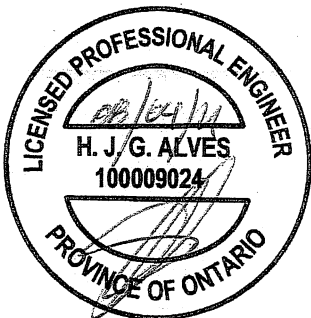
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (B) (INPUT = 0.90)
JSI METAL= 0.28 (E) (INPUT = 1.00)



Structural component only
DWG# T-2126349

CONTINUED ON PAGE 2

JOB NAME 420307	TRUSS NAME T34	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:3j58QWzqAirhOuMwta7eUuyvWFD-y4vRW3h5yougwziHFRtmQcxLoA4HDPoSakNOaTyrHsa

PLATES (table is in inches)

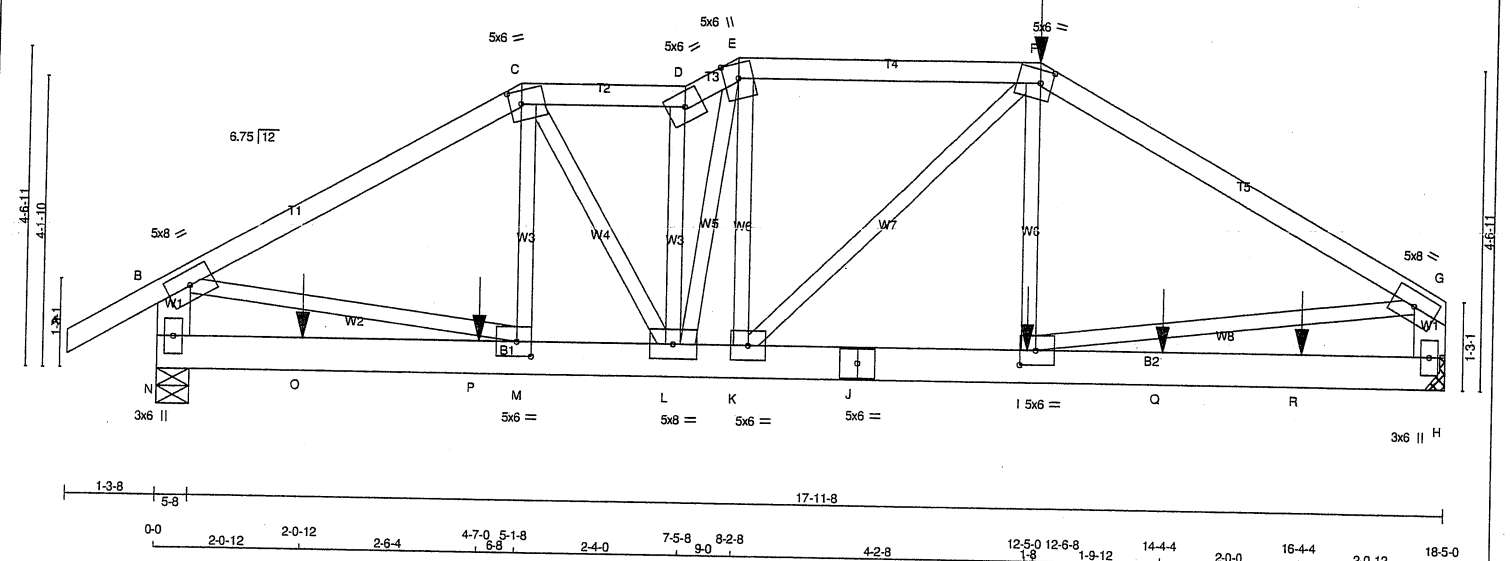
JT	TYPE	PLATES	W	LEN	Y	X
E	BMW+ ^t	MT20	5.0	8.0	4.25	2.50
F	BMV1+ ^p	MT20	3.0	6.0		

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



Structural component only
DWG# T-2126349 *TH*

JOB NAME 420307	TRUSS NAME T35	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. Wed Aug 4 09:04:26 2021 Page 1 ID:3j58QWzqAirhOuMwta7eUuyvWFD-RHTpjPij50XX6HTp9O?ypTKJZlJynebOO6x6vyrHsZ	



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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0		
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TTW-h	MT20	5.0	6.0		
E	TTWW+m	MT20	5.0	6.0	Edge	
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-t	MT20	5.0	8.0		
H	BMV1+p	MT20	3.0	6.0		
I	BMVW-t	MT20	5.0	6.0	2.50	2.75
J	BS-t	MT20	5.0	6.0		
K	BMVW-t	MT20	5.0	6.0		
L	BMVWW-t	MT20	5.0	8.0		
M	BMVW-t	MT20	5.0	6.0	2.50	2.50
N	BMV1+p	MT20	3.0	6.0		

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

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
N	2113	0	2113	0	5-8
H	1960	0	1960	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	MAX./MIN. WIND	MAX./MIN. DEAD	MAX./MIN. SOIL
N	1491	996 / 0	0 / 0	0 / 0	0 / 0	495 / 0	0 / 0
H	1387	902 / 0	0 / 0	0 / 0	0 / 0	485 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.31 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 UNBRACED LENGTH (LC)
FR-TO			
A-B	0 / 28	-84.9	-84.9 0.12 (1)
B-C	-2619 / 0	-84.9	-84.9 0.64 (1)
C-D	-2408 / 0	-84.9	-84.9 0.16 (1)
D-E	-2811 / 0	-84.9	-84.9 0.10 (1)
E-F	-2302 / 0	-84.9	-84.9 0.40 (1)
F-G	-2626 / 0	-84.9	-84.9 0.87 (1)
G-H	-1995 / 0	0.0	0.0 0.14 (1)
H-I	-1868 / 0	0.0	0.0 0.13 (1)
I-J	0 / 0	-18.5	-18.5 0.22 (1)
J-K	0 / 0	-18.5	-18.5 0.22 (1)
K-L	0 / 0	-18.5	-18.5 0.22 (1)
L-M	0 / 2302	-18.5	-18.5 0.52 (1)
M-N	0 / 2293	-18.5	-18.5 0.48 (1)
N-O	0 / 2299	-18.5	-18.5 0.35 (1)
O-P	0 / 2299	-18.5	-18.5 0.35 (1)
P-Q	0 / 0	-18.5	-18.5 0.16 (4)
Q-R	0 / 0	-18.5	-18.5 0.16 (4)
R-H	0 / 0	-18.5	-18.5 0.16 (4)

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	12-6-8	-259	-259		FRONT	VERT	TOTAL		C1
I	12-5-0	-490	-490		FRONT	VERT	TOTAL		C1
O	2-0-12	-23	-23		FRONT	VERT	TOTAL		C1
P	4-7-0	-617	-617		FRONT	VERT	TOTAL		C1
Q	14-4-4	-29	-29		FRONT	VERT	TOTAL		C1
R	16-4-4	-29	-29		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.61")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.61")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.87/1.00 (F-G:1), BC=0.52/1.00 (L-M:1), WB=0.57/1.00 (B-M:1), SI=0.59/1.00 (M-N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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

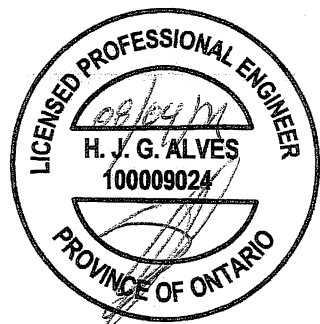
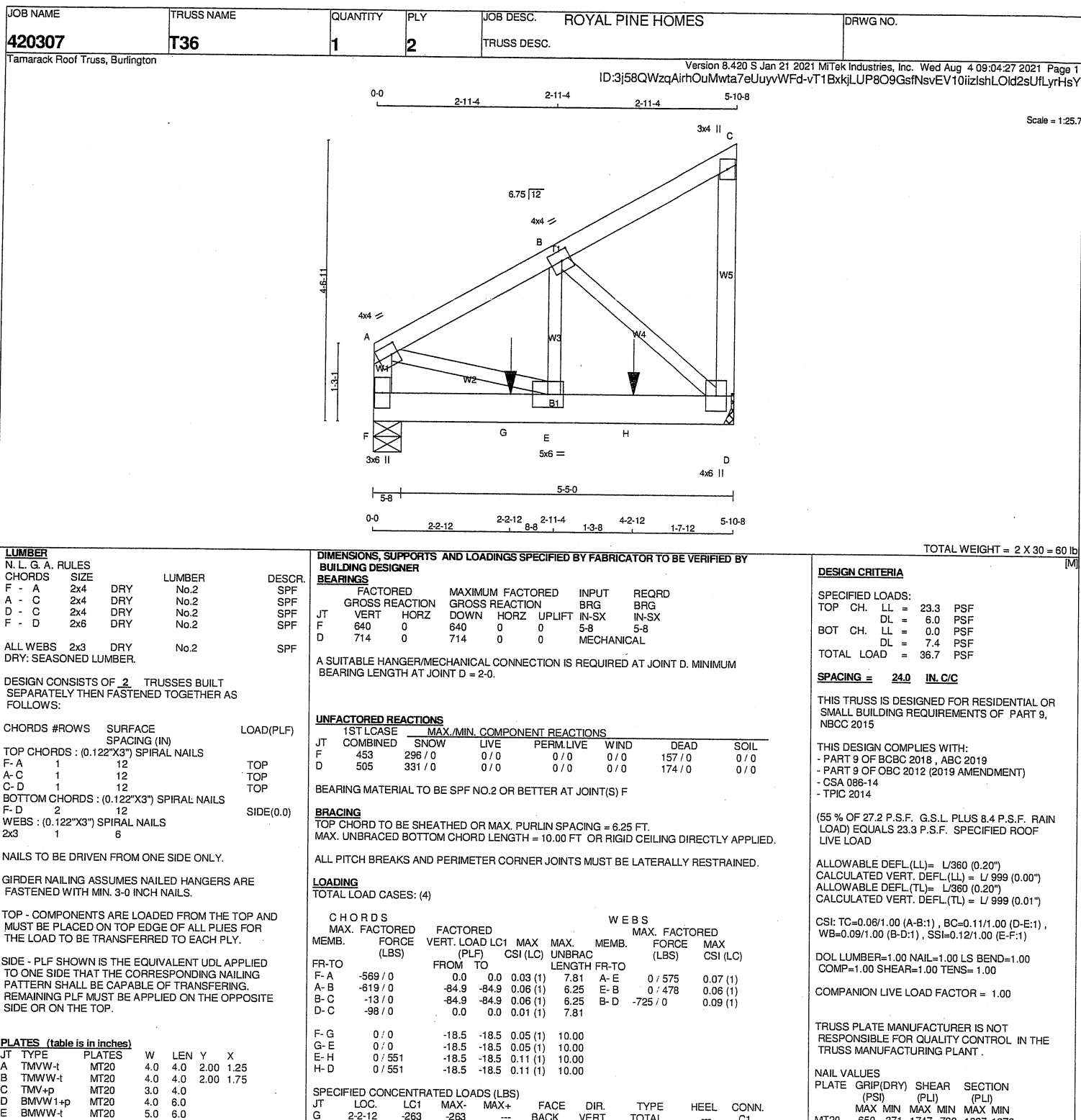
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (I) (INPUT = 0.90)
JSI METAL = 0.52 (M) (INPUT = 1.00)



Structural component only
DWG# T-2126350



Structural component only
DWG# T-2126351

JOB NAME 420307	TRUSS NAME T36	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

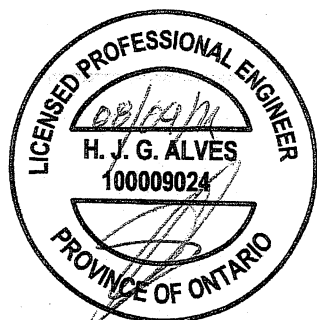
Version 8.420 S Jan 21 2021 MITek Industries, Inc. Wed Aug 4 09:04:27 2021 Page 2
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PLATES (table is in inches)

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

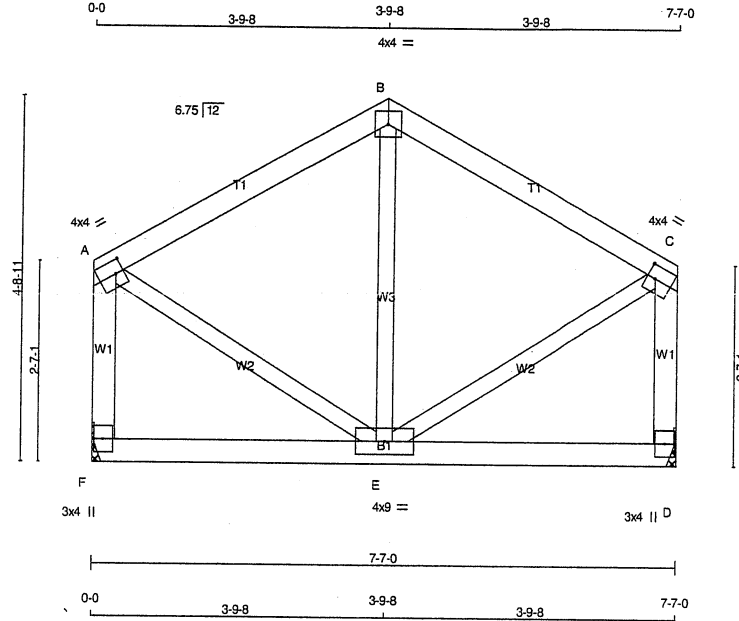
NOTES- (1)

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



Structural component only
DWG# T-2126351 *2/2*

JOB NAME 420307	TRUSS NAME T37	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 09:04:28 2021 Page 1 ID:3j58QWzqAirhOuMwta7eUuyvWFd-Nfba84kzFjGFnQQsxaRT1EZrzn5jQpMusib2BoyrHsX			
		Scale = 1:28.4			



TOTAL WEIGHT = 2 X 34 = 67 lb
(M)(F)

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	4.0	2.00	1.25
B	TTW-p	MT20	4.0	4.0		
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	BMV1+p	MT20	3.0	4.0		
E	BMVWW-t	MT20	4.0	9.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES-

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
F	392 0	392 0	0	0
D	392 0	392 0	0	0

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	278	177 / 0	0 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0
D	278	177 / 0	0 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LO)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
A-B	-201 / 0	-84.9	-84.9	0.16 (1)	6.25	E-B	-125 / 14	0.04 (1)	
B-C	-201 / 0	-84.9	-84.9	0.16 (1)	6.25	A-E	0 / 204	0.05 (1)	
F-A	-365 / 0	0.0	0.0	0.05 (1)	7.81	E-C	0 / 204	0.05 (1)	
D-C	-365 / 0	0.0	0.0	0.05 (1)	7.81				
F-E	0 / 0	-18.5	-18.5	0.07 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.07 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.16/1.00 (B-C:1), BC=0.07/1.00 (D-E:4), WB=0.05/1.00 (A-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

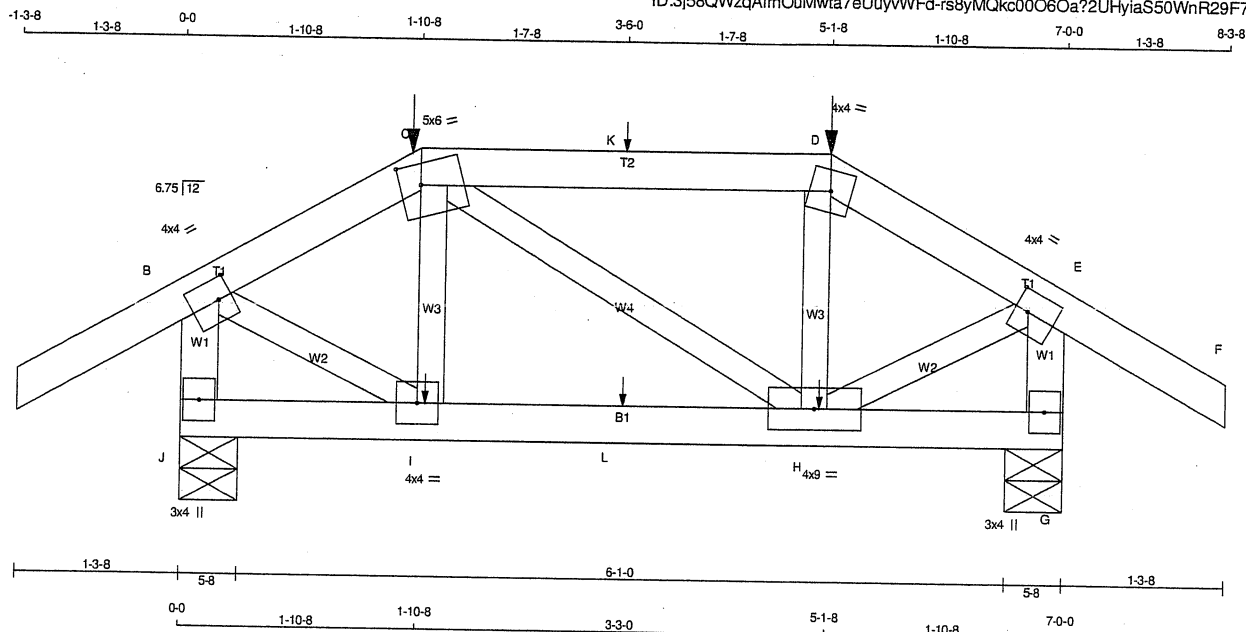
JSI GRIP= 0.28 (A) (INPUT = 0.90)
JSI METAL= 0.10 (A) (INPUT = 1.00)



Structural component only
DWG# T-2126352

JOB NAME 420307	TRUSS NAME T38	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTWW-m	MT20	5.0	6.0	2.00	2.00
D	TTW-m	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	4.0	2.00	1.25
G	BMV1+p	MT20	3.0	4.0		
H	BMWW-t	MT20	4.0	9.0		
I	BMWW-t	MT20	4.0	4.0		
J	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
J	542	0	542	0	0
G	542	0	542	0	0

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN.	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	381	262 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0
G	381	262 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 28	I-C	-82 / 14
B-C	-341 / 0	C-H	0 / 0
C-K	-274 / 0	H-D	-82 / 15
K-D	-274 / 0	D-I	0 / 308
D-E	-340 / 0	E-H	0 / 308
E-F	0 / 28		
J-B	-528 / 0		
G-E	-528 / 0		
J-I	0 / 0		
I-L	0 / 274		
L-H	0 / 274		
H-G	0 / 0		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-10-8	-45	-45	70	FRONT	VERT	TOTAL	---	C1
D	5-1-8	-45	-45	70	FRONT	VERT	TOTAL	---	C1
H	5-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1
I	1-11-4	1	1	---	FRONT	VERT	TOTAL	---	C1
K	3-6-0	1	1	70	FRONT	VERT	TOTAL	---	C1
L	3-6-0	1	1	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.17/1.00 (C-D:1), BC=0.07/1.00 (H-I:1), WB=0.08/1.00 (B-I:1), SS=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

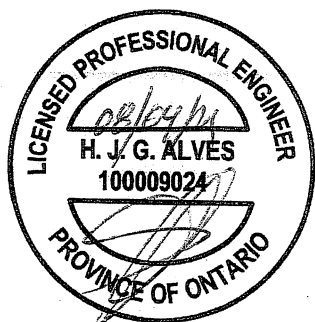
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.43 (B) (INPUT = 0.90)
JSI METAL = 0.15 (B) (INPUT = 1.00)

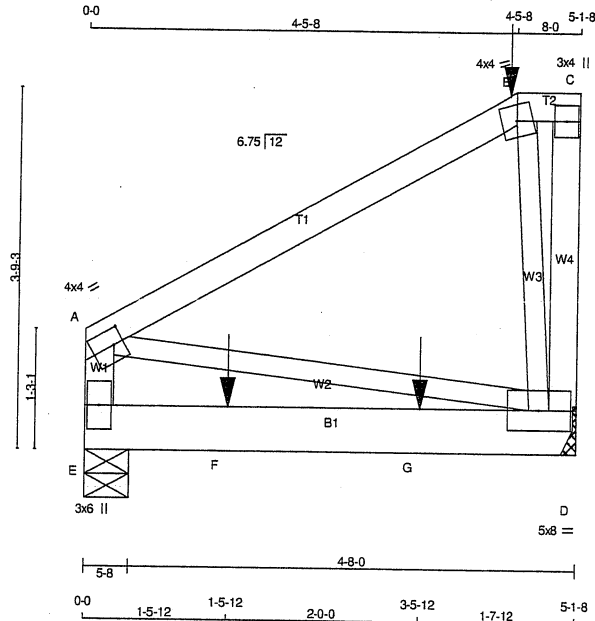


Structural component only
DWG# T-2126353

JOB NAME 420307	TRUSS NAME T39	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:22.9

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B	12	SIDE(61.0)
B-C	12	SIDE(61.0)
C-D	12	TOP
E-A	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
E-D	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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	UP	IN-SX
D	900	0	900	0	MECHANICAL
E	691	0	691	0	5-8

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	632	440 / 0	0 / 0	0 / 0	0 / 0	191 / 0	0 / 0
E	488	324 / 0	0 / 0	0 / 0	0 / 0	164 / 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		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC)	UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
FR-TO							FR-TO		
A-B	-108 / 0	-84.9	-84.9	0.16 (1)	6.25		B-D	-488 / 0	0.06 (1)
B-C	0 / 0	-84.9	-84.9	0.00 (1)	10.00		A-D	0 / 96	0.01 (1)
D-C	-28 / 0	0.0	0.0	0.00 (1)	7.81				
E-A	-258 / 0	0.0	0.0	0.01 (1)	7.81				
E-F	0 / 0	-18.5	-18.5	0.24 (1)	10.00				
F-G	0 / 0	-18.5	-18.5	0.24 (1)	10.00				
G-D	0 / 0	-18.5	-18.5	0.24 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	4-5-8	-217	-217	---	BACK	VERT	TOTAL	---	C1
F	1-5-12	-263	-263	---	FRONT	VERT	TOTAL	---	C1
G	3-5-12	-263	-263	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 26 = 52 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.16/1.00 (A-B:1), BC=0.24/1.00 (D-E:1), WB=0.06/1.00 (B-D:1), SS=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126354

CONTINUED ON PAGE 2

JOB NAME 420307	TRUSS NAME T39	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 09:04:30 2021 Page 2
ID:3j58QWzgAirhOuMwta7eUuyvWFd-J2iKZmlEnKWz0kaE2 Tx7fe8RBldujiBJ049FgyrHsV

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TTW-m	MT20	4.0	4.0		
C	TMV+p	MT20	3.0	4.0		
D	BMVWW1-t	MT20	5.0	8.0		
E	BMV1+p	MT20	3.0	6.0		

NOTES: (1)

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

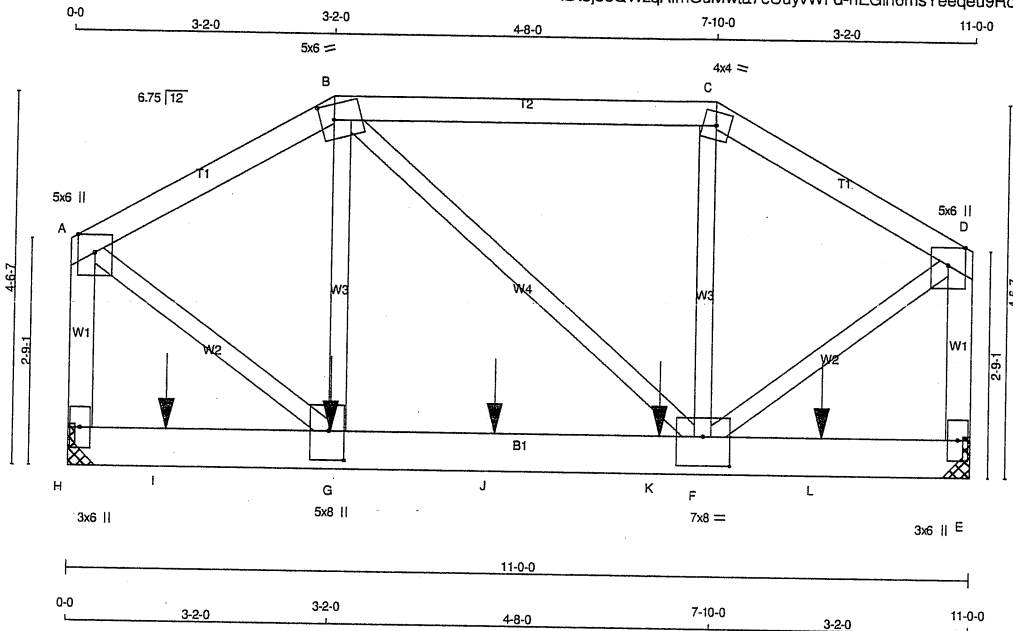


Structural component only
DWG# T-2126354 *m*

JOB NAME 420307	TRUSS NAME T40	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. Wed Aug 4 09:04:31 2021 Page 1
ID:3j58QWzqAirhOuMwta7eUuyvWfd-nEGin6msYeeqeu9Rci_AftAKUa0dd4GKYgqio7yrHsU



TOTAL WEIGHT = 2 X 55 = 110 lb [M]

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B 1	12	TOP
B-C 1	12	TOP
C-D 1	12	TOP
H-A 1	12	TOP
E-D 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
H-E 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
G-B 1	6	SIDE(194.1)
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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	UP
H		4377	0	4377	0
E		3989	0	3989	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
H	3103	1994 / 0	0 / 0	0 / 0	0 / 0	1109 / 0	0 / 0
E	2828	1817 / 0	0 / 0	0 / 0	0 / 0	1011 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.12 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	WEBS		MAX. FACTORED MEMB. FORCE (LBS)	MAX. LC1 (LC)
FR-TO			FROM TO			FR-TO			
A-B	-3160 / 0	-84.9	-84.9	0.12 (1)	5.12	G-B	0 / 1250	0.15 (1)	
B-C	-2754 / 0	-84.9	-84.9	0.21 (1)	5.29	B-F	-37 / 0	0.01 (1)	
C-D	-3130 / 0	-84.9	-84.9	0.12 (1)	5.14	F-C	0 / 1209	0.15 (1)	
H-A	-3674 / 0	0.0	0.0	0.27 (1)	6.13	A-G	0 / 3391	0.42 (1)	
E-D	-3640 / 0	0.0	0.0	0.26 (1)	6.16	F-D	0 / 3358	0.42 (1)	
H-I	0 / 0	-18.5	-18.5	0.30 (1)	10.00				
I-G	0 / 0	-18.5	-18.5	0.30 (1)	10.00				
G-J	0 / 2782	-18.5	-18.5	0.57 (1)	10.00				
J-K	0 / 2782	-18.5	-18.5	0.57 (1)	10.00				
K-F	0 / 2782	-18.5	-18.5	0.57 (1)	10.00				
F-L	0 / 0	-18.5	-18.5	0.39 (1)	10.00				
L-E	0 / 0	-18.5	-18.5	0.39 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	3-2-4	-1025	-1025	---	BACK	VERT	TOTAL	---	C1
I	1-2-4	-1025	-1025	---	BACK	VERT	TOTAL	---	C1
J	5-2-4	-1025	-1025	---	BACK	VERT	TOTAL	---	C1
K	7-2-4	-1025	-1025	---	BACK	VERT	TOTAL	---	C1
L	9-2-4	-1025	-1025	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.27/1.00 (A-H:1), BC=0.57/1.00 (F-G:1),
WB=0.42/1.00 (A-G:1), SS=0.66/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.82 (A) (INPUT = 0.90)
JSI METAL= 0.60 (A) (INPUT = 1.00)



Structural component only
DWG# T-2126355

CONTINUED ON PAGE 2

JOB NAME 420307	TRUSS NAME T40	QUANTITY 1	PLY 2	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
A	TMVW+p	MT20	5.0	6.0	Edge	
B	TTWW-m	MT20	5.0	6.0	2.25	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMVW+p	MT20	5.0	6.0	Edge	
E	BMV1+p	MT20	3.0	6.0		
F	BMVWW-t	MT20	7.0	8.0	4.25	4.00
G	BMVW-t	MT20	5.0	8.0	4.25	2.25
H	BMV1+p	MT20	3.0	6.0		

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

NOTES- (1)

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

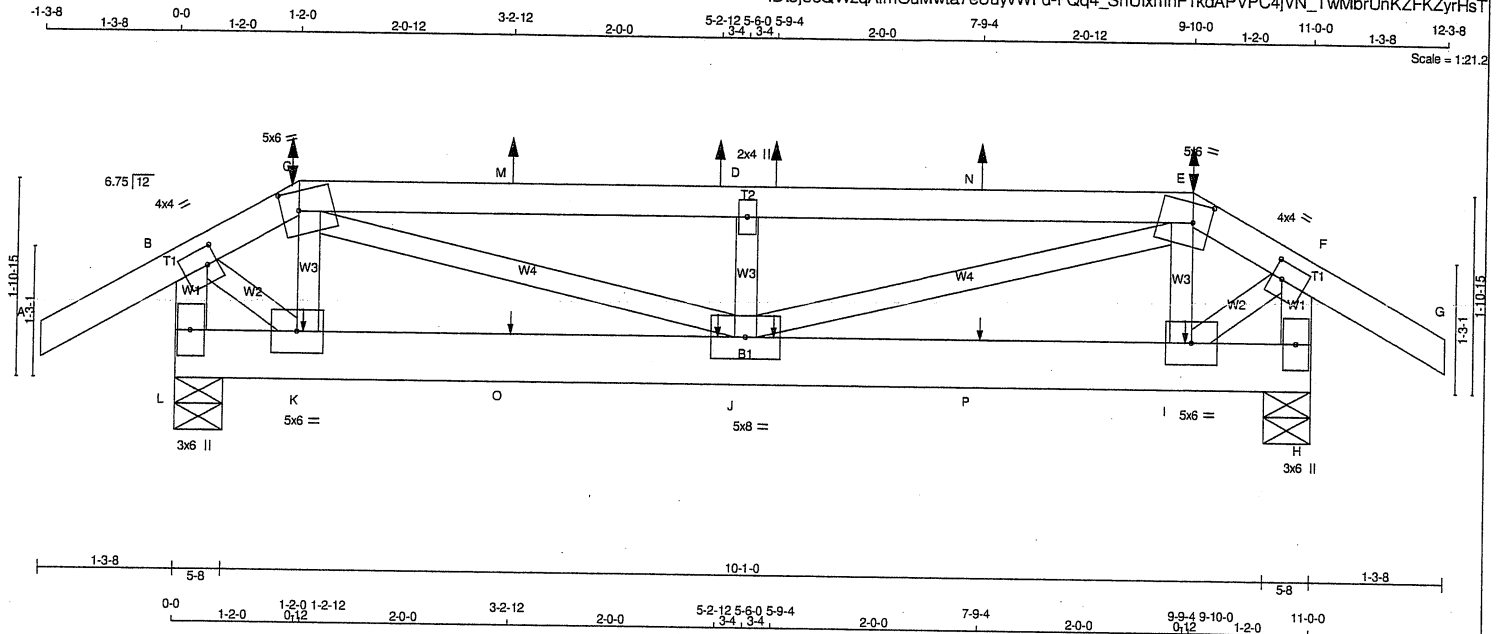


Structural component only
DWG# T-2126355 *ma*

JOB NAME 420307	TRUSS NAME T41	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. Wed Aug 4 09:04:32 2021 Page 1
ID:3j58QWzqAirhOuMwta7eUuyvWFd-FQq4_SnUlxmhF1kdAPVPC4jVN_TwMbrUnKZFKZyrHsT



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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTWW-m	MT20	5.0	6.0	2.25	2.00
D	TMW-w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-t	MT20	4.0	4.0	2.00	1.25
H	BMV1+p	MT20	3.0	6.0		
I	BMWV-t	MT20	5.0	6.0		
J	BMWVW-t	MT20	5.0	8.0		
K	BMWVW-t	MT20	5.0	6.0		
L	BMV1+p	MT20	3.0	6.0		

NOTES - (1)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
L	667	0	667	0
H	667	0	667	0

UNFACTORED REACTIONS

	1ST LOASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	466	338 / 0	0 / 0	0 / 0	0 / 0	129 / 0	0 / 0
H	466	338 / 0	0 / 0	0 / 0	0 / 0	129 / 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 = 6.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS				WEBS			
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 / 28	-84.9	-84.9	0.12 (1)	10.00	K-C	-110 / 52
B-C	-479 / 0	-84.9	-84.9	0.12 (1)	6.25	C-J	0 / 570
C-M	-917 / 0	-84.9	-84.9	0.26 (1)	6.08	J-D	-383 / 19
M-D	-917 / 0	-84.9	-84.9	0.26 (1)	6.08	J-E	0 / 570
D-N	-917 / 0	-84.9	-84.9	0.26 (1)	6.08	I-E	-110 / 52
N-E	-917 / 0	-84.9	-84.9	0.26 (1)	6.08	B-K	0 / 467
E-F	-479 / 0	-84.9	-84.9	0.12 (1)	6.25	I-F	0 / 467
F-G	0 / 28	-84.9	-84.9	0.12 (1)	10.00		
L-B	-715 / 0	0.0	0.0	0.08 (1)	7.81		
H-F	-715 / 0	0.0	0.0	0.08 (1)	7.81		
L-K	0 / 0	-18.5	-18.5	0.06 (1)	10.00		
K-O	0 / 379	-18.5	-18.5	0.12 (1)	10.00		
O-J	0 / 379	-18.5	-18.5	0.12 (1)	10.00		
J-P	0 / 379	-18.5	-18.5	0.12 (1)	10.00		
P-I	0 / 379	-18.5	-18.5	0.12 (1)	10.00		
I-H	0 / 0	-18.5	-18.5	0.06 (1)	10.00		

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-2-0	-12	-21	93	FRONT	VERT	TOTAL	---	C1
D	5-2-12	15	1	98	FRONT	VERT	TOTAL	---	C1
E	5-9-4	15	1	98	FRONT	VERT	TOTAL	---	C1
D	9-10-0	-12	-21	93	FRONT	VERT	TOTAL	---	C1
I	9-9-4	1	1	---	FRONT	VERT	TOTAL	---	C1
J	5-2-12	1	1	---	FRONT	VERT	TOTAL	---	C1
J	5-9-4	1	1	---	FRONT	VERT	TOTAL	---	C1
K	1-2-12	1	1	---	FRONT	VERT	TOTAL	---	C1
M	3-2-12	15	1	98	FRONT	VERT	TOTAL	---	C1
N	7-9-4	15	1	98	FRONT	VERT	TOTAL	---	C1
O	3-2-12	1	1	---	FRONT	VERT	TOTAL	---	C1
P	7-9-4	1	1	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.28/1.00 (C-D:1), BC=0.12/1.00 (I-J:1), WB=0.14/1.00 (C-J:1), SSI=0.18/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

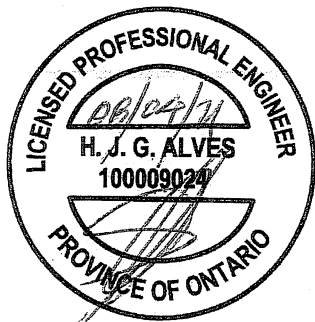
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

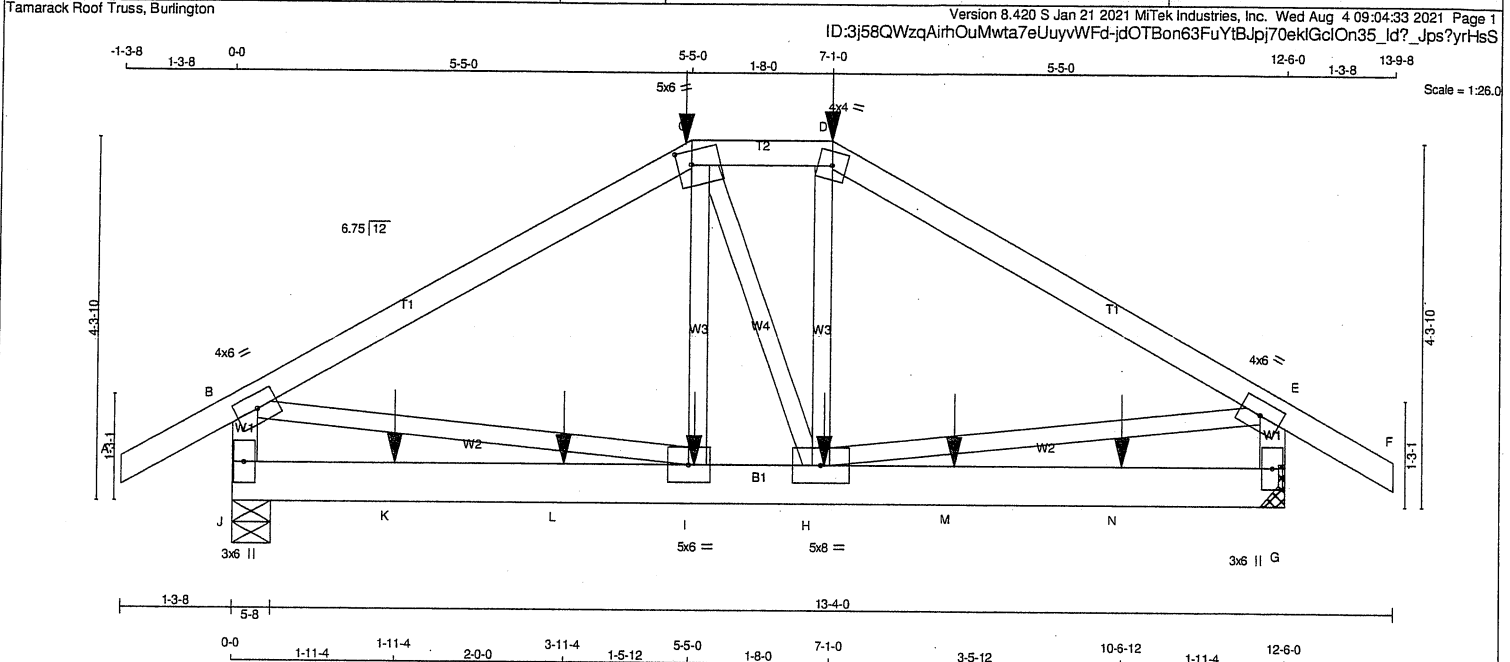
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.78 (C) (INPUT = 0.90)
JSI METAL= 0.19 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126356

JOB NAME 420307	TRUSS NAME T42	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	4.0	6.0	
C	TTVW-m	MT20	5.0	6.0	2.00 2.00
D	TTVW-m	MT20	4.0	4.0	
E	TMVW-t	MT20	4.0	6.0	
G	BMV1-p	MT20	3.0	6.0	
H	BMVW-t	MT20	5.0	6.0	
I	BMVW-t	MT20	5.0	6.0	
J	BMV1-p	MT20	3.0	6.0	

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

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

BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG
J	1340	0	1340
G	1340	0	1340

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

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD
J	949	616 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0
G	949	616 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.64 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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO			
A-B	0 / 28	-84.9	10.00
B-C	-1468 / 0	-84.9	4.64
C-D	-1275 / 0	-84.9	5.62
D-E	-1468 / 0	-84.9	4.64
E-F	0 / 28	-84.9	10.00
J-B	-1266 / 0	0.0	7.12
G-E	-1264 / 0	0.0	7.13
J-K	0 / 0	-18.5	10.00
K-L	0 / 0	-18.5	10.00
L-I	0 / 0	-18.5	10.00
I-H	0 / 1277	-18.5	10.00
H-M	0 / 0	-18.5	10.00
M-N	0 / 0	-18.5	10.00
N-G	0 / 0	-18.5	10.00

SPECIFIED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	HEEL
C	5-5-0	-335	-335	---	BACK	VERT	C1
D	7-1-0	-335	-335	---	BACK	VERT	C1
H	7-0-4	-25	-25	---	BACK	VERT	C1
I	5-5-12	-25	-25	---	BACK	VERT	C1
K	1-11-4	-25	-25	---	BACK	VERT	C1
L	3-11-4	-25	-25	---	BACK	VERT	C1
M	8-6-12	-25	-25	---	BACK	VERT	C1
N	10-6-12	-25	-25	---	BACK	VERT	C1

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.42")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.57/1.00 (B-C:1), BC=0.19/1.00 (H-I:1), WB=0.32/1.00 (B-I:1), SSI=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (D) (INPUT = 0.90)
JSI METAL= 0.37 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126357

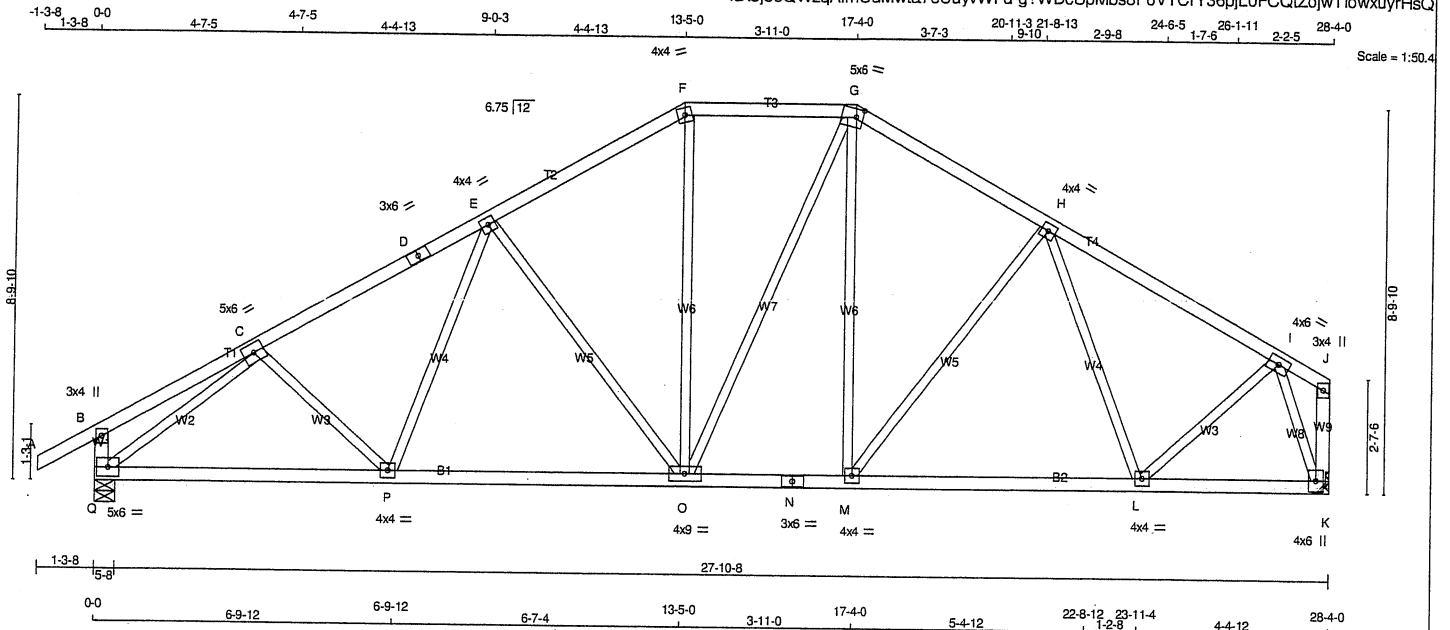


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Structural component only
DWG# T-2126358

JOB NAME 420307	TRUSS NAME T45	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMWW-t	MT20	5.0	6.0	
D	TS-t	MT20	3.0	6.0	
E	TMWW-t	MT20	4.0	4.0	
F	TTW-m	MT20	4.0	4.0	
G	TTWW-m	MT20	5.0	6.0	2.25 2.00
H	TMWW-t	MT20	4.0	4.0	
I	TMWW-t	MT20	4.0	6.0	
J	TMV+p	MT20	3.0	4.0	
K	BMVW1+p	MT20	4.0	6.0	
L, M, P					
L	BMWW-t	MT20	4.0	4.0	
N	BS-t	MT20	3.0	6.0	
O	BMWWW-t	MT20	4.0	9.0	
Q	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

	FACTORED		MAXIMUM FACTORED		INPUT		REQD	
	GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
Q	1580	0	1580	0	5-8			
K	1464	0	1464	0	0	MECHANICAL		

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

UNFACTORED REACTIONS

	1ST LCASE MAX/MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT	1119	723 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
K	1039	660 / 0	0 / 0	0 / 0	0 / 0	380 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				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	LENGTH	FR-TO			
A-B	0 / 28	-84.9 -84.9	0.11 (1)	10.00	C-P	0 / 60	0.02 (4)
B-C	0 / 20	-84.9 -84.9	0.20 (1)	10.00	P-E	0 / 147	0.05 (4)
C-D	-1810 / 0	-84.9 -84.9	0.28 (1)	4.72	E-O	-519 / 0	0.59 (1)
D-E	-1810 / 0	-84.9 -84.9	0.28 (1)	4.72	O-F	0 / 377	0.08 (1)
E-F	-1420 / 0	-84.9 -84.9	0.25 (1)	5.22	O-G	0 / 135	0.03 (1)
F-G	-1221 / 0	-84.9 -84.9	0.18 (1)	5.61	M-G	0 / 224	0.05 (1)
G-H	-1359 / 0	-84.9 -84.9	0.25 (1)	5.30	M-H	-161 / 0	0.18 (1)
H-I	-1284 / 0	-84.9 -84.9	0.25 (1)	5.42	H-L	-399 / 0	0.29 (1)
I-J	0 / 61	-84.9 -84.9	0.21 (1)	10.00	L-I	0 / 724	0.16 (1)
Q-B	-227 / 0	0.0 0.0	0.02 (1)	7.81	Q-C	-2046 / 0	0.71 (1)
K-J	0 / 76	0.0 0.0	0.01 (1)	10.00	I-K	-1625 / 0	0.32 (1)
Q-P	0 / 1579	-18.5 -18.5	0.36 (1)	10.00			
P-O	0 / 1533	-18.5 -18.5	0.35 (1)	10.00			
O-N	0 / 1165	-18.5 -18.5	0.25 (1)	10.00			
N-M	0 / 1165	-18.5 -18.5	0.25 (1)	10.00			
M-L	0 / 1261	-18.5 -18.5	0.28 (1)	10.00			
L-K	0 / 593	-18.5 -18.5	0.20 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.28/1.00 (C-E:1), BC=0.36/1.00 (P-Q:1), WB=0.71/1.00 (C-Q:1), SSI=0.16/1.00 (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)
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

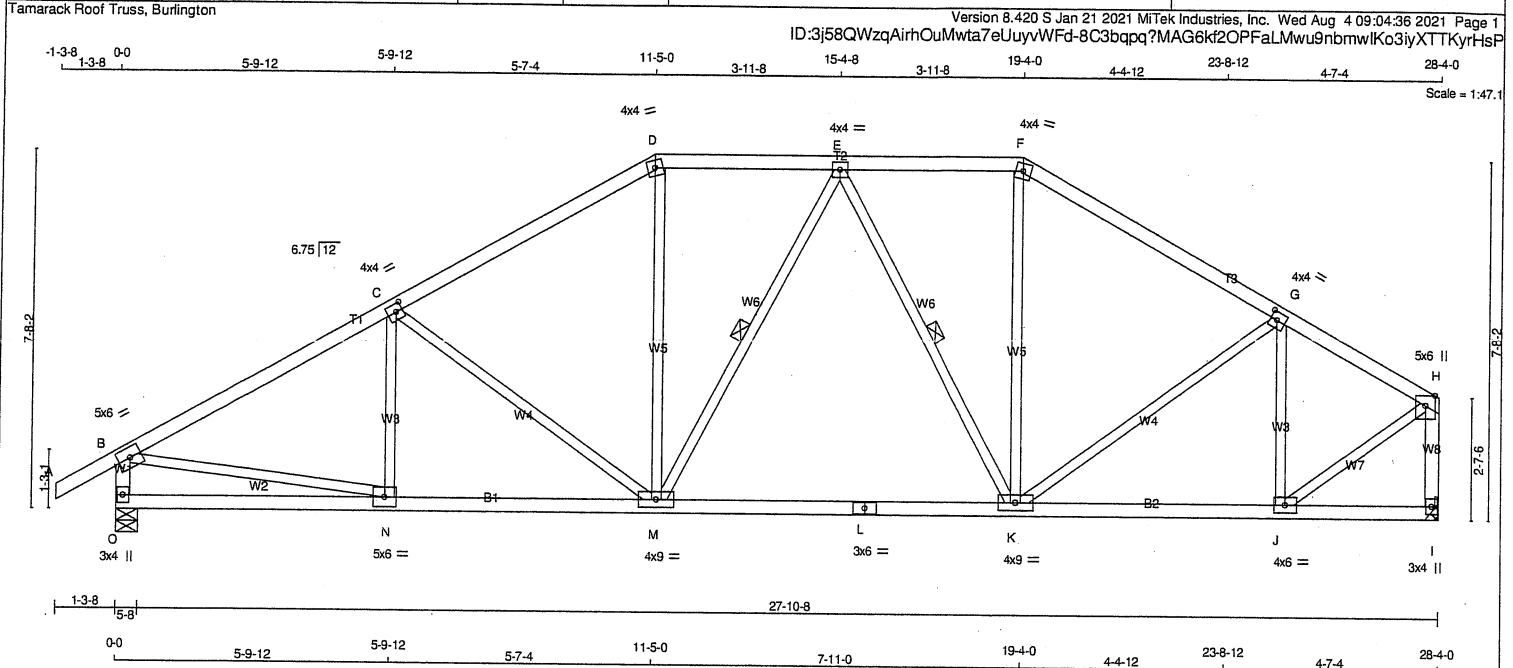
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (Q) (INPUT = 0.90)
JSI METAL= 0.46 (C) (INPUT = 1.00)



Structural component only
DWG# T-2126359

JOB NAME 420307	TRUSS NAME T46	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. TOTAL WEIGHT = 123 lb [M/F]

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - H	2x4	DRY No.2	SPF
O - B	2x4	DRY No.2	SPF
I - H	2x4	DRY No.2	SPF
O - L	2x4	DRY No.2	SPF
L - I	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0		
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTW-m	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	TTW-m	MT20	4.0	4.0		
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-p	MT20	5.0	6.0	Edge	
I	BMV1+p	MT20	3.0	4.0		
J	BMVW-t	MT20	4.0	6.0		
K	BMVWW-t	MT20	4.0	9.0		
L	BS-t	MT20	3.0	6.0		
M	BMVWW-t	MT20	4.0	9.0		
N	BMVW-t	MT20	5.0	6.0		
O	BMV1+p	MT20	3.0	4.0		

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
O	1580	0	1580	0	0	5-8	5-8		
I	1464	0	1464	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1119	723 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
I	1039	660 / 0	0 / 0	0 / 0	0 / 0	380 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-M, E-K.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 28	-84.9	-84.9 0.11 (1)	10.00	N-C	-167 / 26	0.05 (1)
B-C	-1915 / 0	-84.9	-84.9 0.42 (1)	4.44	C-M	-415 / 0	0.40 (1)
C-D	-1590 / 0	-84.9	-84.9 0.39 (1)	4.82	M-D	0 / 455	0.10 (1)
D-E	-1366 / 0	-84.9	-84.9 0.18 (1)	5.38	M-E	-88 / 6	0.04 (1)
E-F	-1236 / 0	-84.9	-84.9 0.18 (1)	5.59	E-K	-369 / 0	0.17 (1)
F-G	-1434 / 0	-84.9	-84.9 0.34 (1)	5.08	K-F	0 / 367	0.08 (1)
G-H	-1229 / 0	-84.9	-84.9 0.27 (1)	5.47	K-G	0 / 160	0.04 (1)
O-B	-1533 / 0	0.0	0.0 0.16 (1)	6.64	J-G	-666 / 0	0.20 (1)
I-H	-1439 / 0	0.0	0.0 0.20 (1)	6.81	B-N	0 / 1716	0.39 (1)
					J-H	0 / 1331	0.30 (1)
O-N	0 / 0	-18.5	-18.5 0.13 (4)	10.00			
N-M	0 / 1693	-18.5	-18.5 0.37 (1)	10.00			
M-L	0 / 1407	-18.5	-18.5 0.33 (1)	10.00			
L-K	0 / 1407	-18.5	-18.5 0.33 (1)	10.00			
K-J	0 / 1102	-18.5	-18.5 0.29 (4)	10.00			
J-I	0 / 0	-18.5	-18.5 0.07 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TG=0.42/1.00 (B-C:1), BC=0.37/1.00 (M-N:1), WB=0.40/1.00 (C-M:1), SS=0.21/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

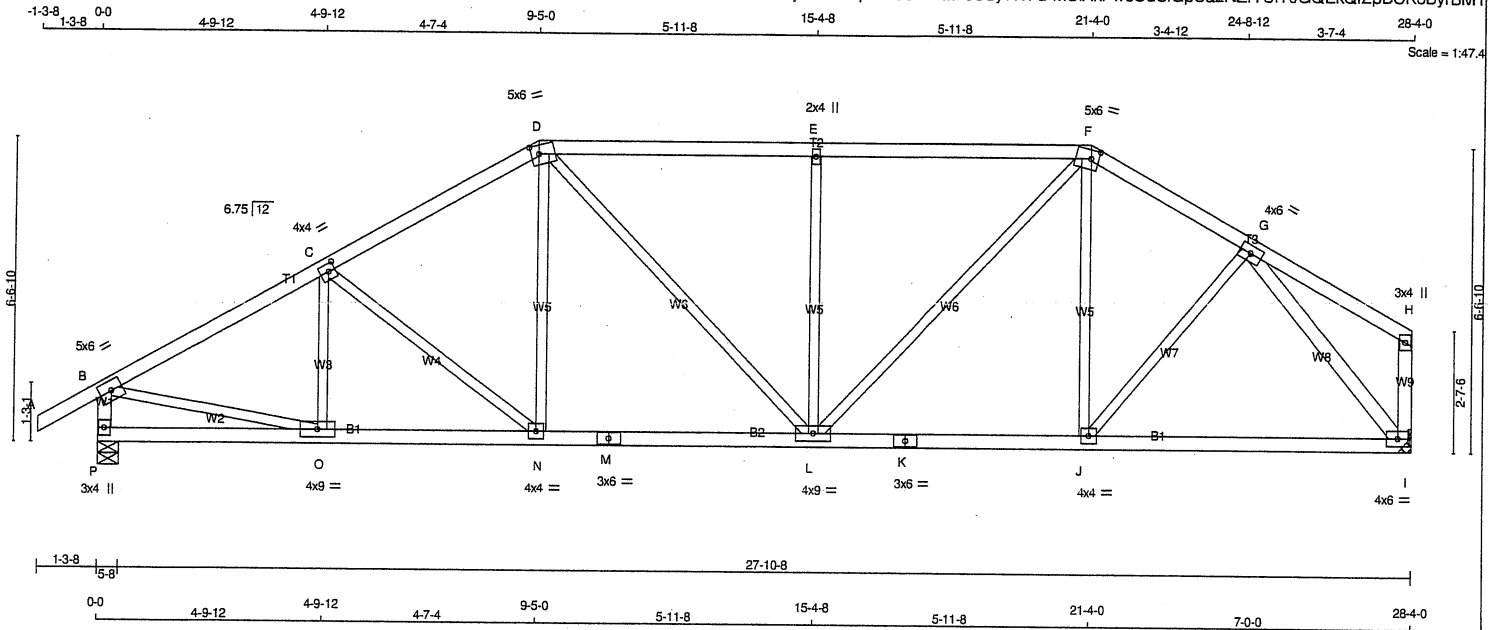
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (J) (INPUT = 0.90)
JSI METAL= 0.54 (L) (INPUT = 1.00)



Structural component only
DWG# T-2126360



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
P - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
P - M	2x4	DRY	No.2
M - K	2x4	DRY	No.2
K - I	2x4	DRY	No.2
ALL WEBS EXCEPT G - I	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0		
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	2.00
G	TMVW-t	MT20	4.0	6.0		
H	TMVW-p	MT20	3.0	4.0		
I	BMVW-t	MT20	4.0	6.0		
J	BMVW-t	MT20	4.0	4.0		
K	BS-t	MT20	3.0	6.0		
L	BMVW-t	MT20	4.0	9.0		
M	BS-t	MT20	3.0	6.0		
N	BMVW-t	MT20	4.0	4.0		
O	BMVW-t	MT20	4.0	9.0		
P	BMVW-t	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT 1580	0	5-8	5-8
P	HORZ 1464	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX. MIN. SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1119	723 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
I	1039	660 / 0	0 / 0	0 / 0	0 / 0	380 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.62 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0 / 28	-84.9 -84.9	0.11 (1)	10.00	O-C	-240 / 0	0.06 (1)
B-C	-1892 / 0	-84.9 -84.9	0.28 (1)	4.63	C-N	-241 / 0	0.15 (1)
C-D	-1720 / 0	-84.9 -84.9	0.27 (1)	4.82	N-D	0 / 253	0.06 (1)
D-E	-1708 / 0	-84.9 -84.9	0.43 (1)	4.62	D-L	0 / 328	0.07 (1)
E-F	-1708 / 0	-84.9 -84.9	0.43 (1)	4.62	L-E	-621 / 0	0.44 (1)
F-G	-1454 / 0	-84.9 -84.9	0.15 (1)	5.29	L-F	0 / 664	0.15 (1)
G-H	0 / 16	-84.9 -84.9	0.16 (1)	10.00	J-F	-83 / 42	0.06 (1)
P-B	-1540 / 0	0.0 0.0	0.16 (1)	6.63	J-G	0 / 292	0.07 (1)
I-H	-115 / 0	0.0 0.0	0.02 (1)	7.81	B-O	0 / 1700	0.38 (1)
					G-I	-1676 / 0	0.59 (1)
P-O	0 / 0	-18.5 -18.5	0.09 (4)	10.00			
O-N	0 / 1668	-18.5 -18.5	0.33 (1)	10.00			
N-M	0 / 1482	-18.5 -18.5	0.30 (1)	10.00			
M-L	0 / 1482	-18.5 -18.5	0.30 (1)	10.00			
L-K	0 / 1250	-18.5 -18.5	0.32 (4)	10.00			
K-J	0 / 1250	-18.5 -18.5	0.32 (4)	10.00			
J-I	0 / 1063	-18.5 -18.5	0.30 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL)= L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL)= L/999 (0.14")

CSI: TC=0.43/1.00 (D-E:1), BC=0.33/1.00 (N-O:1), WB=0.59/1.00 (G-I: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= 0.79 (F) (INPUT = 0.90)
JSI METAL= 0.47 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126361

CONTINUED ON PAGE 2

JOB NAME 420307	TRUSS NAME T48	QUANTITY 1	PLY 2	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

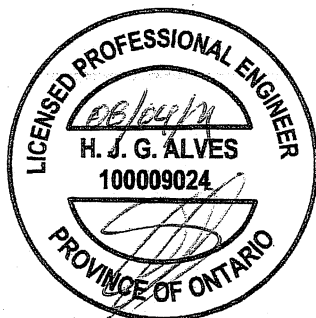
Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Wed Aug 4 09:04:38 2021 Page 2
ID:3j58QWzqAirhOuMwta7eUuyvWFD-4aBMFVrFunXqzyBnWgcpRLzb0PTqmi2M9G0aXDyrHsN

PLATES (table is in inches)

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

NOTES- (1)

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

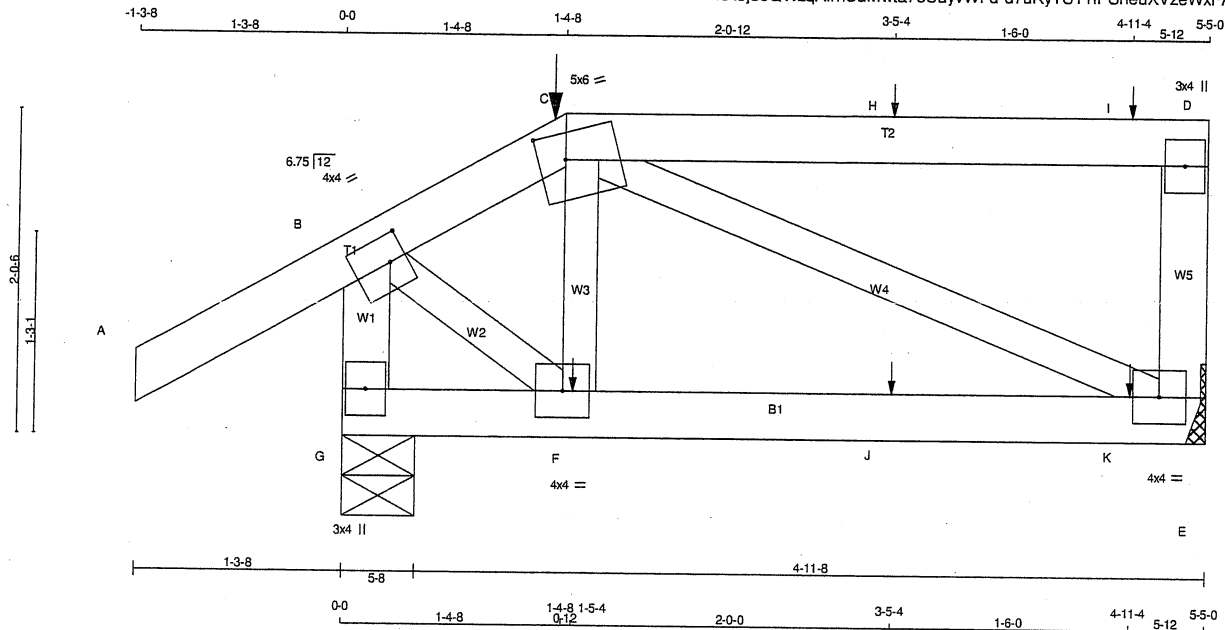


Structural component only
DWG# T-2126362 *TH*

JOB NAME 420570	TRUSS NAME T49	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. Wed Aug 4 10:14:20 2021 Page 1
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Scale = 1:13.8

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
C	TTWW-m	MT20	5.0	6.0	2.00	2.00
D	TMV+p	MT20	3.0	4.0		
E	BMVW-t	MT20	4.0	4.0		
F	BMVW-t	MT20	4.0	4.0		
G	BMV+p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
E	275	0	275	0	0
G	437	0	437	0	0

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

UNFACTORED REACTIONS

JT	COMBINED	1ST LOASE	SNOW	MAX/MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	195	123	-11	0/0	0/0	0/0	0/0	72/0	0/0
G	307	213	0	0/0	0/0	0/0	0/0	95/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

CHORDS		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRACED LENGTH	WEBS		MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO			FROM	TO			FR-TO			
A-B	0/28	-84.9	-84.9	0.12	(1)	10.00	F-C	-40/48	0.01	(4)
B-C	-224/0	-84.9	-84.9	0.12	(1)	6.25	C-E	-183/0	0.06	(1)
C-H	0/0	-84.9	-84.9	0.26	(1)	10.00	B-F	0/202	0.05	(1)
H-I	0/0	-84.9	-84.9	0.26	(1)	10.00				
I-D	0/0	-84.9	-84.9	0.26	(1)	10.00				
E-D	-171/0	0.0	0.0	0.02	(1)	7.81				
G-B	-437/0	0.0	0.0	0.05	(1)	7.81				
G-F	0/0	-18.5	-18.5	0.06	(4)	10.00				
F-J	0/168	-18.5	-18.5	0.08	(4)	10.00				
J-K	0/168	-18.5	-18.5	0.08	(4)	10.00				
K-E	0/168	-18.5	-18.5	0.08	(4)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	1-4-8	-25	-25	78	BACK	VERT	TOTAL	---	C1
F	1-5-4	1	1	---	BACK	VERT	TOTAL	---	C1
H	3-5-4	1	1	78	BACK	VERT	TOTAL	---	C1
I	4-11-4	1	1	66	BACK	VERT	TOTAL	---	C1
J	3-5-4	1	1	---	BACK	VERT	TOTAL	---	C1
K	4-11-4	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.26/1.00 (C-D:1), BC=0.08/1.00 (E-F:4), WB=0.06/1.00 (C-E:1), SSI=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

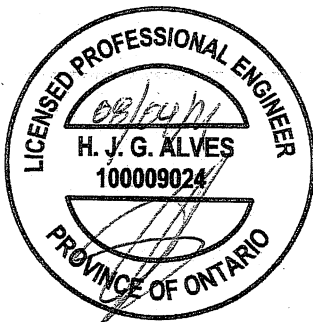
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

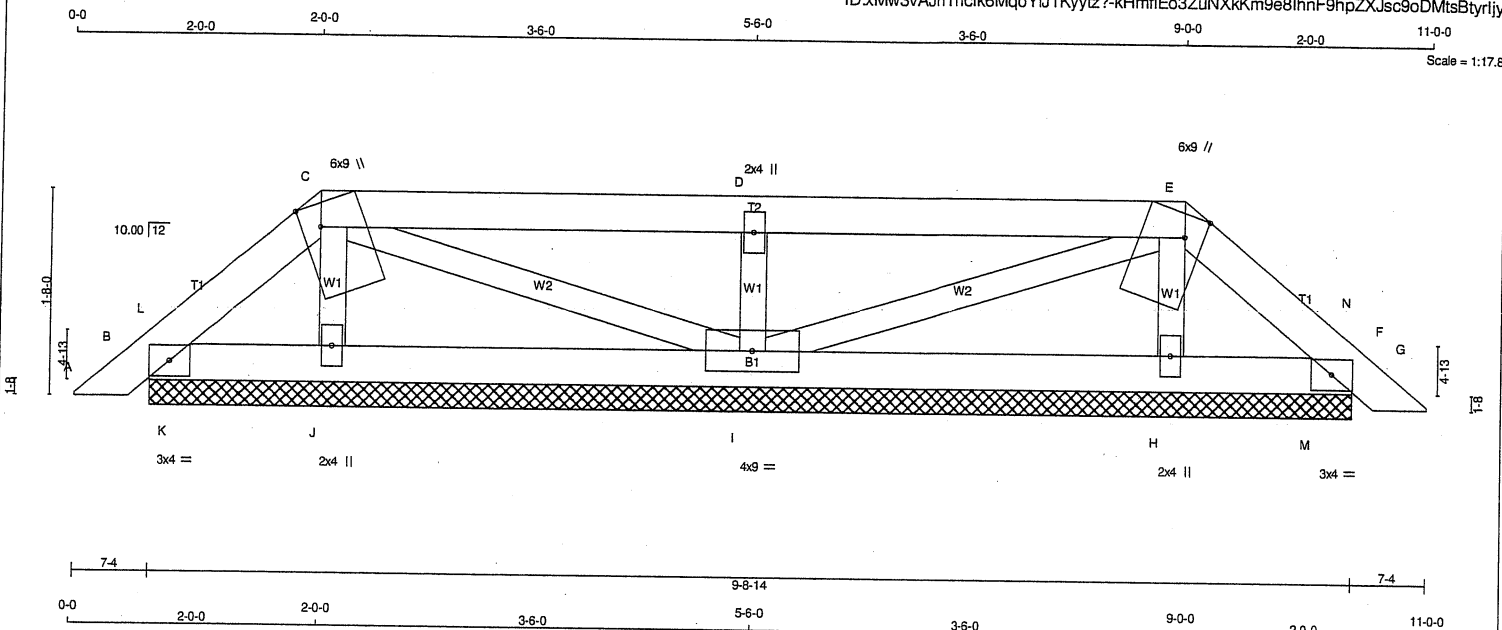
JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126370

JOB NAME 420230	TRUSS NAME PB1	QUANTITY 2	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Wed Aug 4 08:05:21 2021 Page 1
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LUMBER				DESCR.	
N. L. G. A. RULES	SIZE	LUMBER		SPF	
CHORDS				SPF	
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
B - F	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTWW+m	MT20	6.0	9.0	Edge 1.75
D	TTWW+w	MT20	2.0	4.0	
E	TTWW+m	MT20	6.0	9.0	Edge 1.75
F	TMB1-I	MT20	3.0	4.0	
H	BMW1+w	MT20	2.0	4.0	
I	BMW1+w	MT20	4.0	9.0	
J	BMW1+w	MT20	2.0	4.0	

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
B	133	0	133	0	0	0	9-8-14	9-8-14	
F	133	0	133	0	0	0	9-8-14	9-8-14	
J	192	0	192	0	0	0	9-8-14	9-8-14	
I	445	0	445	0	0	0	9-8-14	9-8-14	
H	192	0	192	0	0	0	9-8-14	9-8-14	

UNFACTORED REACTIONS		1ST LC CASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
B	92	71/0	0/0	0/0	0/0
F	92	71/0	0/0	0/0	0/0
J	138	77/0	0/0	0/0	0/0
I	315	208/0	0/0	0/0	0/0
H	138	77/0	0/0	0/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	0/13	FR-TO	0/13
A-B	-33/0	A-B	-126/0
B-L	-41/0	B-L	-16/0
C-D	-4/0	C-D	-371/0
D-E	-4/0	D-E	-16/0
E-N	-41/0	E-N	-126/0
N-F	-33/0	N-F	-69/0
F-G	0/13	F-G	-69/0
B-K	0/30	B-K	-18.5
K-J	0/30	K-J	-18.5
J-I	0/19	J-I	-18.5
I-H	0/19	I-H	-18.5
H-M	0/30	H-M	-18.5
M-F	0/30	M-F	-18.5

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (D-E:1) , BC=0.05/1.00 (I-J:4) , WB=0.05/1.00 (D-I:1) , SS=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= 0.18 (D) (INPUT = 0.90)
JSI METAL= 0.08 (D) (INPUT = 1.00)

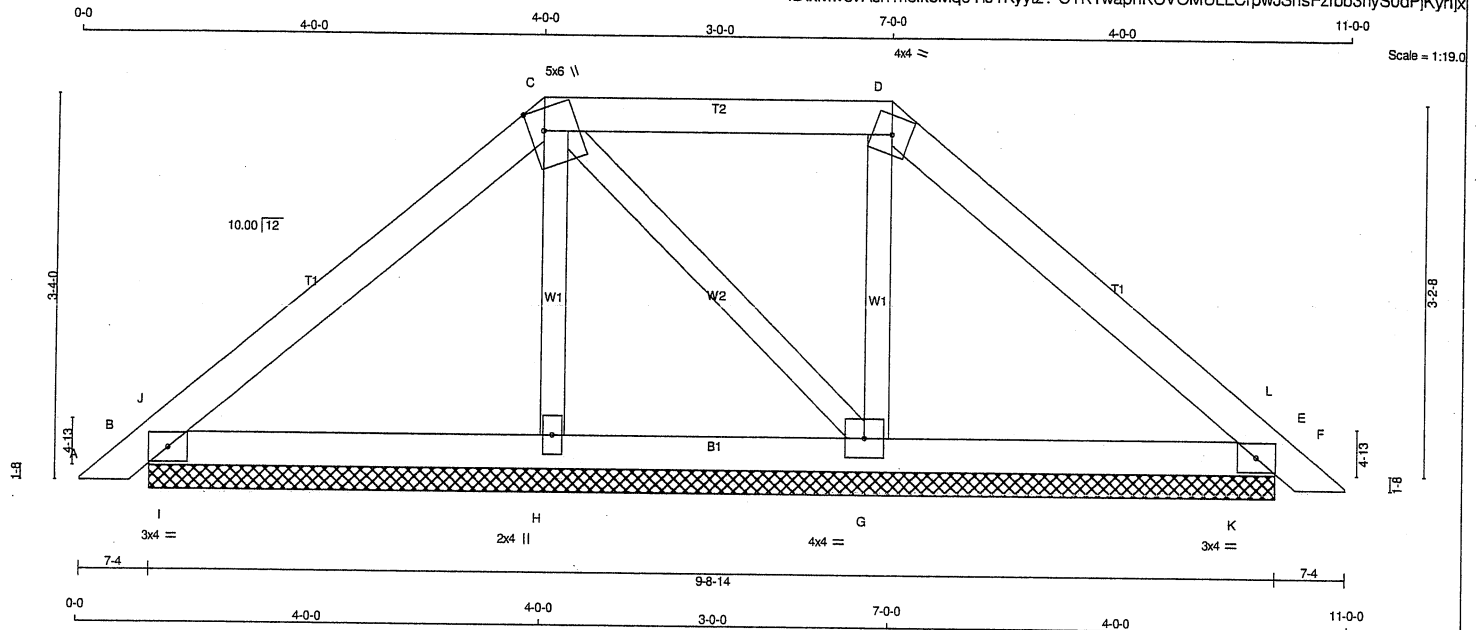


Structural component only
DWG# T-2126292

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
420230	PB2	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 34 = 67 lb [M]

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-t	MT20	3.0	4.0	
C	TTWW+m	MT20	5.0	6.0	2.25 1.50
D	TTWW-m	MT20	4.0	4.0	
E	TMB1-t	MT20	3.0	4.0	
G	BMWW1-t	MT20	4.0	4.0	
H	BMWW1-w	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
B	300	0	300	0	0	9-8-14	9-8-14	9-8-14	9-8-14
E	279	0	279	0	0	9-8-14	9-8-14	9-8-14	9-8-14
H	222	0	222	0	0	9-8-14	9-8-14	9-8-14	9-8-14
G	295	0	295	0	0	9-8-14	9-8-14	9-8-14	9-8-14

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	210	147 / 0	0 / 0	0 / 0	0 / 0	64 / 0	0 / 0
E	196	135 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0
H	159	90 / 0	0 / 0	0 / 0	0 / 0	69 / 0	0 / 0
G	210	131 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO		FR-TO			
A-B	0 / 13	-84.9	-84.9 0.02 (1)	10.00	H-C	-135 / 0	0.03 (1)
B-J	-45 / 0	-84.9	-84.9 0.05 (1)	6.25	C-G	-37 / 0	0.01 (1)
J-C	-144 / 0	-84.9	-84.9 0.12 (1)	6.25	G-D	-182 / 0	0.03 (1)
C-D	-73 / 0	-84.9	-84.9 0.13 (1)	6.25	I-J	-276 / 0	0.00 (1)
D-L	-112 / 0	-84.9	-84.9 0.12 (1)	6.25	K-L	-281 / 0	0.00 (1)
L-E	-36 / 0	-84.9	-84.9 0.05 (1)	6.25			
E-F	0 / 13	-84.9	-84.9 0.02 (1)	10.00			
B-I	0 / 104	-18.5	-18.5 0.11 (1)	10.00			
I-H	0 / 104	-18.5	-18.5 0.11 (1)	10.00			
H-G	0 / 99	-18.5	-18.5 0.06 (1)	10.00			
G-K	0 / 80	-18.5	-18.5 0.11 (1)	10.00			
K-E	0 / 80	-18.5	-18.5 0.11 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.13/1.00 (C-D:1) , BC=0.11/1.00 (B-I:1) , WB=0.03/1.00 (D-G:1) , SS=0.22/1.00 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

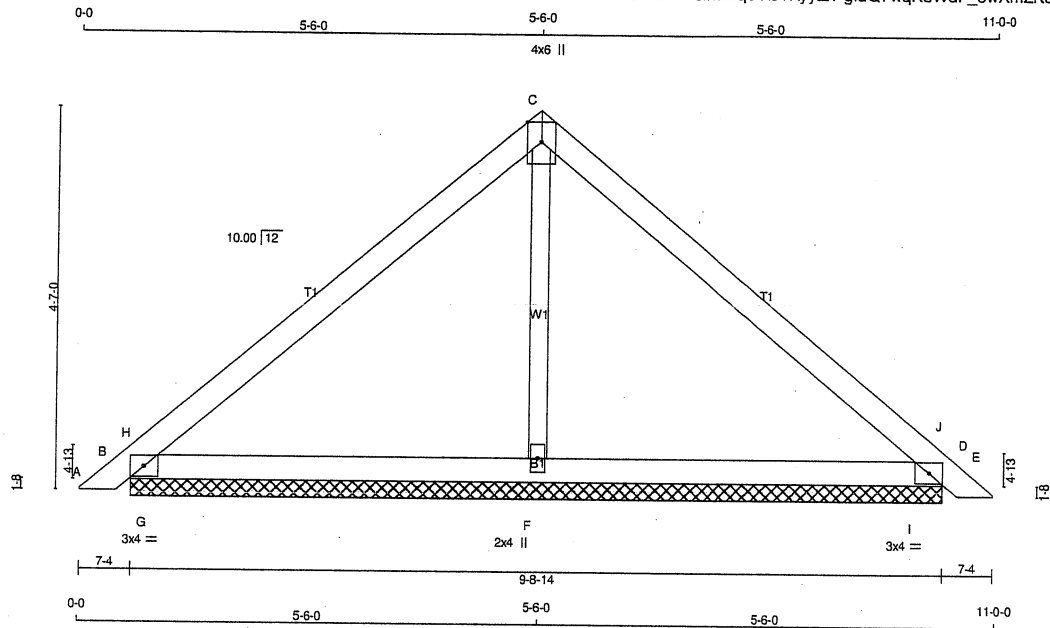


Structural component only
DWG# T-2126293

JOB NAME 420230	TRUSS NAME PB3	QUANTITY 12	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:25.3

TOTAL WEIGHT = 12 X 30 = 366 lb [M]

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMB1-I	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

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

NOTES- (1)

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UP/LIFT	IN-SX
B	399	0	399	0	9-8-14
D	399	0	399	0	9-8-14
F	297	0	297	0	9-8-14

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	280	194 / 0	0 / 0	0 / 0	0 / 0	86 / 0	0 / 0	0 / 0
D	280	194 / 0	0 / 0	0 / 0	0 / 0	86 / 0	0 / 0	0 / 0
F	215	114 / 0	0 / 0	0 / 0	0 / 0	101 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	FROM	TO	FR-TO
A-B	0 / 13	-84.9	0.02 (1)
B-H	-34 / 100	-84.9	0.16 (1)
H-C	-215 / 0	-84.9	0.24 (1)
C-J	-215 / 0	-84.9	0.24 (1)
J-D	-34 / 100	-84.9	0.16 (1)
D-E	0 / 13	-84.9	0.02 (1)
B-G	0 / 154	-18.5	-18.5 0.23 (1)
G-F	0 / 154	-18.5	-18.5 0.23 (1)
F-I	0 / 154	-18.5	-18.5 0.23 (1)
I-D	0 / 154	-18.5	-18.5 0.23 (1)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.24/1.00 (C-J:1), BC=0.23/1.00 (D-I:1),
WB=0.03/1.00 (C-F:1), SS=0.48/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(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= 0.33 (B) (INPUT = 0.90)
JSI METAL= 0.09 (D) (INPUT = 1.00)

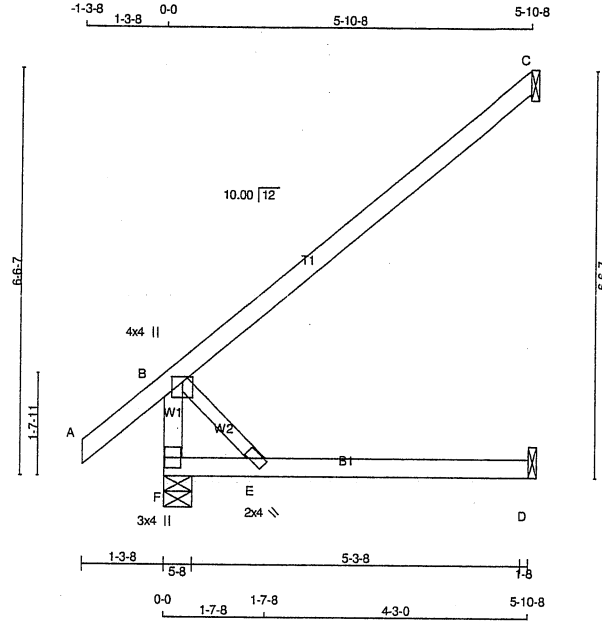


Structural component only
DWG# T-2126294

JOB NAME 420230	TRUSS NAME J1	QUANTITY 8	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Wed Aug 4 08:05:08 2021 Page 1
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Scale = 1:35.3



TOTAL WEIGHT = 8 X 20 = 164 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMV+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
F	VERT	DOWN	HORZ	UPLIFT	IN-SX
C	421	0	421	0	5-8
D	249	0	249	0	1-8
E	54	0	54	0	1-8

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

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
F	297	201 / 0	0 / 0	0 / 0	0 / 0	95 / 0
C	172	137 / 0	0 / 0	0 / 0	0 / 0	35 / 0
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-B	-367 / 0	B-E	0 / 0
A-B	0 / 38		
B-C	0 / 0		
F-E	0 / 0		
E-D	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.50/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

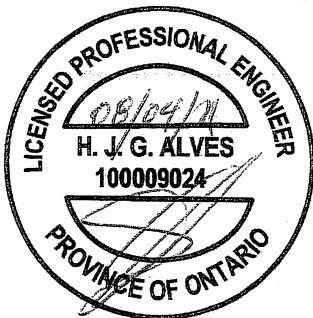
NAIL VALUES

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

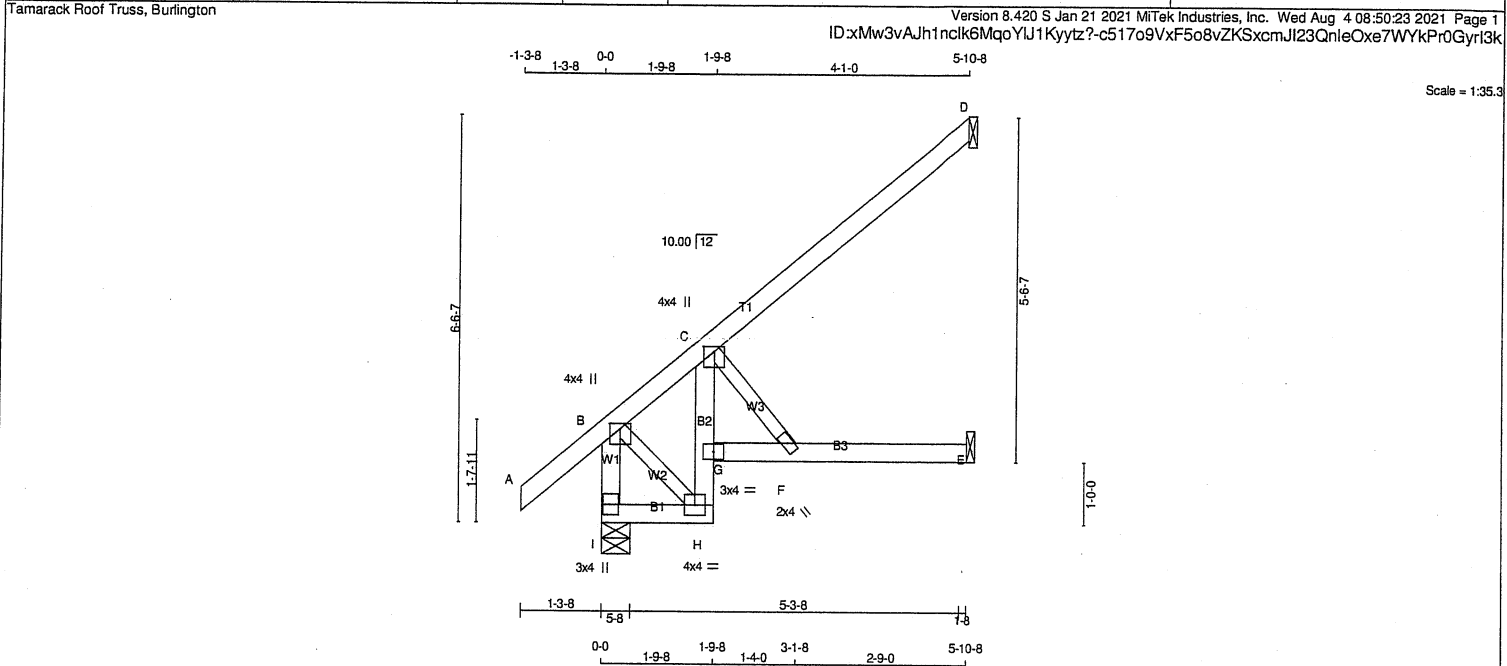
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126278

JOB NAME 420305	TRUSS NAME J1S	QUANTITY 8	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
TRUSS DESC.					



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMVW+w	MT20	2.0	4.0		
G	BMVH-i	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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQD BRG IN-SX
I	435 0	435 0	5-8	5-8
D	176 0	176 0	1-8	1-8
E	114 0	114 0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX./MIN. SNOW	MAX./MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	306	209 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0
D	122	93 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0
E	84	36 / 0	0 / 0	0 / 0	0 / 0	47 / 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

C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
I-B	-420 / 0	0.0 0.0	0.04 (1)	7.81	B-H	0 / 150	0.03 (1)		
A-B	0 / 38	-84.9 -84.9	0.12 (1)	10.00	C-F	-301 / 0	0.05 (1)		
B-C	-179 / 0	-84.9 -84.9	0.11 (1)	6.25					
C-D	-2 / 4	-84.9 -84.9	0.25 (1)	10.00					
I-H	0 / 0	-18.5 -18.5	0.01 (4)	10.00					
H-G	-78 / 0	0.0 0.0	0.16 (1)	7.81					
G-C	0 / 121	0.0 0.0	0.18 (1)	10.00					
G-F	0 / 188	-18.5 -18.5	0.37 (1)	10.00					
F-E	0 / 0	-18.5 -18.5	0.34 (1)	10.00					

TOTAL WEIGHT = 8 X 25 = 198 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 23.3 PSF
 DL = 6.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
 - OVERHANG NOT TO BE ALTERED OR CUT OFF.
 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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/ 590 (0.12")

CSI: TC=0.25/1.00 (C-D:1), BC=0.37/1.00 (F-G:1), WB=0.05/1.00 (C-F:1), SSI=0.16/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

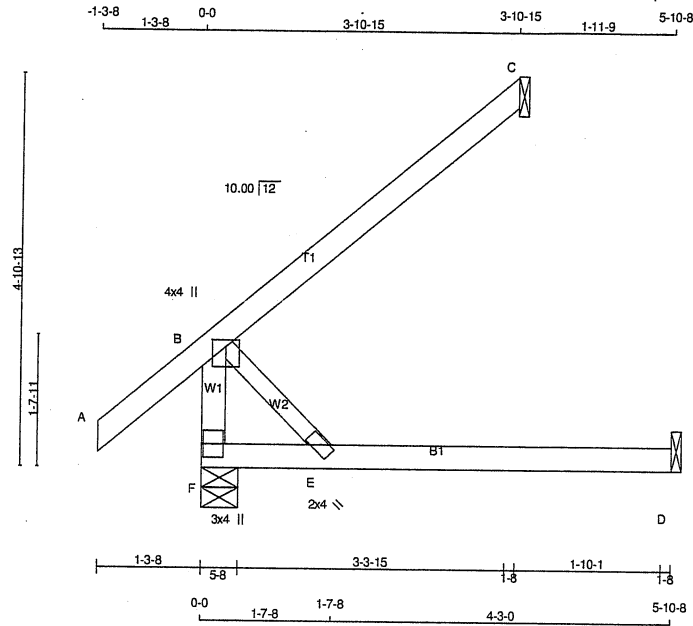
JSI GRIP= 0.28 (B) (INPUT = 0.90)
 JSI METAL= 0.14 (F) (INPUT = 1.00)



Structural component only
 DWG# T-2126321

JOB NAME 420230	TRUSS NAME J1C	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:27.5

TOTAL WEIGHT = 18 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
E	BMV+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT REQ'D	
	VERT	HORZ	DOWN	HORZ	BRG	IN-SX
F	338	0	338	0	5-8	5-8
C	166	0	166	0	1-8	1-8
D	54	0	61	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		DEAD		SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND		
F	239	156 / 0	0 / 0	0 / 0	0 / 0	84 / 0	0 / 0
C	115	91 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MEMB. FORCE (LBS)	MAX	FORCE (LBS)	MAX
FR-TO								
F-B	-284 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 38	-84.9	-84.9	0.12 (1)	10.00			
B-C	0 / 0	-84.9	-84.9	0.22 (1)	10.00			
F-E	0 / 0	-18.5	-18.5	0.14 (4)	10.00			
E-D	0 / 0	-18.5	-18.5	0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.22/1.00 (B-C:1), BC=0.19/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

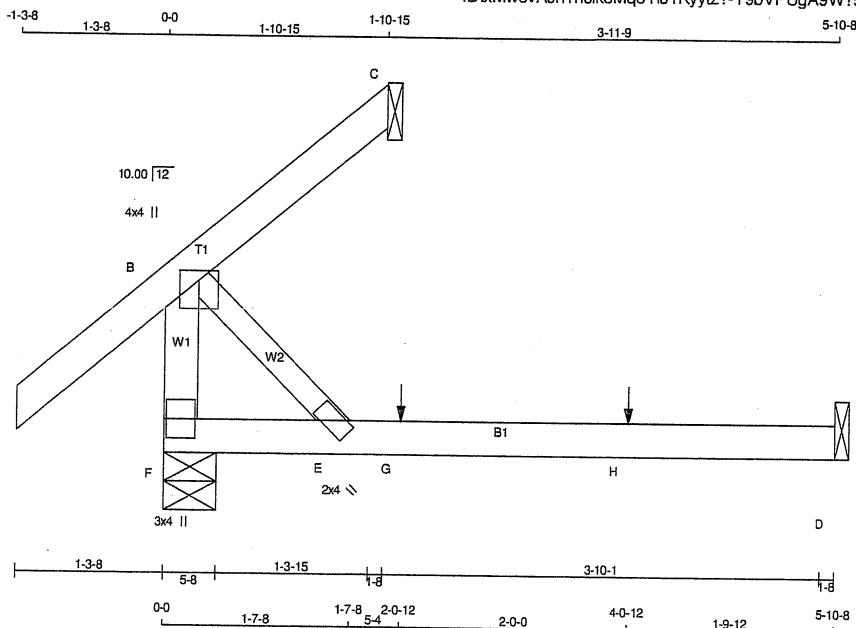


Structural component only
DWG# T-2126279

JOB NAME 420230	TRUSS NAME J1C1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:19.2

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
E	BMW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F	296	0	296	0	0	5-8	5-8	
C	39	0	39	0	0	1-8	1-8	
D	54	0	61	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	210	132 / 0	0 / 0	0 / 0	0 / 0	78 / 0	0 / 0
C	27	21 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
D	43	0 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO		LENGTH FR-TO
F-B	-241 / 0	0.0	0.0	0.03 (1)
A-B	0 / 38	-84.9	-84.9	0.12 (1)
B-C	-27 / 0	-84.9	-84.9	0.12 (1)
F-E	0 / 0	-18.5	-18.5	0.14 (4)
E-G	0 / 0	-18.5	-18.5	0.19 (4)
G-H	0 / 0	-18.5	-18.5	0.19 (4)
H-D	0 / 0	-18.5	-18.5	0.19 (4)

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	1	1	---	BACK	VERT	TOTAL	---	C1
H	4-0-12	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.12/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.08/1.00 (B-C:1)

DOL LUMBER=0.96 NAIL=0.96 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

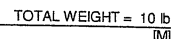
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126280

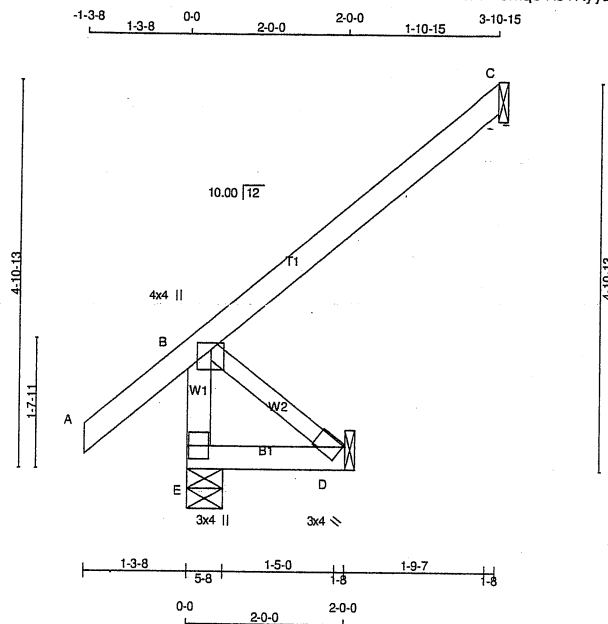


JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



JOB NAME 420230	TRUSS NAME J1C3	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1/27.8

TOTAL WEIGHT = 13 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
D	BMV1+w	MT20	3.0	4.0	1.50 1.50
E	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
E	300	0	300	0	5-8	5-8		
C	166	0	166	0	1-8	1-8		
D	17	0	19	0	1-8	1-8		

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX / MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE				
E	209	156 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0	
C	115	91 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0	
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
E-B	-284 / 0	0.0	0.0 0.03 (1)	7.81	B-D	0 / 0	0.00 (1)
A-B	0 / 38	-84.9	-84.9 0.13 (5)	10.00			
B-C	0 / 0	-84.9	-84.9 0.22 (1)	10.00			
E-D	0 / 0	-18.5	-18.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

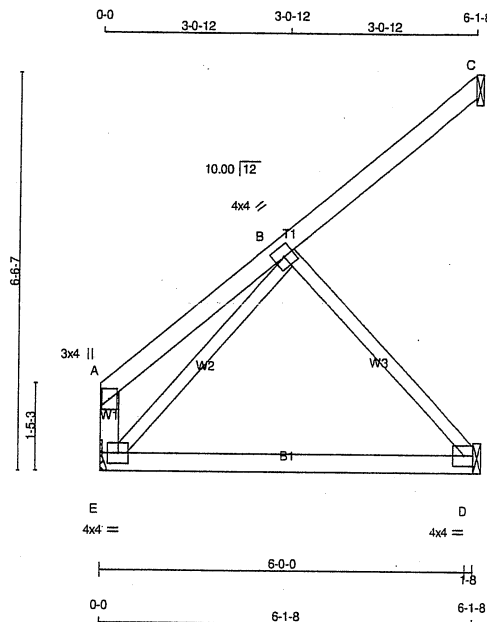


Structural component only
DWG# T-2126282

JOB NAME 420230	TRUSS NAME J2	QUANTITY 5	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:36.1

TOTAL WEIGHT = 5 X 25 = 123 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
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.

DESCR.
SPF
SPF
SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMVW-t	MT20	4.0	4.0		
D	BMW1-t	MT20	4.0	4.0		Edge
E	BMVW1-t	MT20	4.0	4.0		

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

NOTES

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	314	0	314	0
C	105	0	105	0
D	212	0	212	0

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

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

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	COMBINED					
E	223	142 / 0	0 / 0	0 / 0	81 / 0	0 / 0
C	73	58 / 0	0 / 0	0 / 0	15 / 0	0 / 0
D	153	86 / 0	0 / 0	0 / 0	67 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
E-A		-92 / 0	0.0	0.0	0.01 (1)	7.81	B-D		-208 / 0	0.08 (1)
A-B		0 / 21	-84.9	-84.9	0.13 (1)	10.00	E-B		-216 / 0	0.07 (1)
B-C		-19 / 0	-84.9	-84.9	0.10 (1)	6.25				
E-D		0 / 138	-18.5	-18.5	0.21 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.13/1.00 (A-B:1), BC=0.21/1.00 (D-E:4), WB=0.08/1.00 (B-D:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

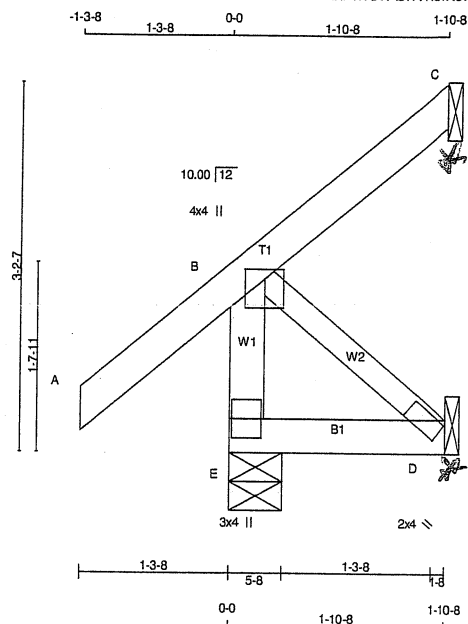


Structural component only
DWG# T-2126283

Structural component only
DWG# T-2126284

JOB NAME 420230	TRUSS NAME J3C	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:19.1

TOTAL WEIGHT = 3 X 10 = 30 lb

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

DESCR.
SPF
SPF
SPF

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
E	VERT	HORZ	DOWN	HORZ	UPLIFT
E	256	0	256	0	0
C	36	0	36	0	-33
D	16	0	18	0	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
E	179	132 / 0	0 / 0	0 / 0	0 / 0	47 / 0
C	25	20 / -24	0 / 0	0 / 0	0 / 0	5 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO		FROM TO	FR-TO
E-B	-241 / 0	0.0 0.0	7.81
A-B	0 / 38	-84.9 -84.9	10.00
B-C	-28 / 0	-84.9 -84.9	6.25
E-D	0 / 0	-18.5 -18.5	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), CSI=0.07/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

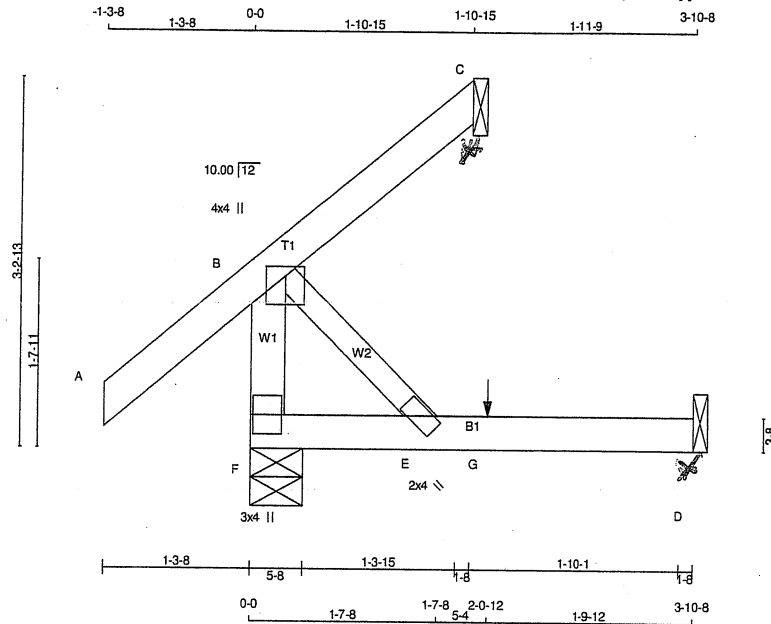
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126285

JOB NAME 420230	TRUSS NAME J3C1	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. Wed Aug 4 08:05:15 2021 Page 1 ID:Mw3vAjh1ncl6MqoYU1Kyztz?-v7POSBKl_3dN0PJ?ltBHX_vgx8TNSuUwrQQX_Eyrlk2			



TOTAL WEIGHT = 12 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
E	BMW+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED		MAXIMUM FACTORED		INPUT		REQD	
	GROSS REACTION	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG	BRG	BRG
F	277	0	277	0	5-8	5-8	5-8	5-8
C	39	0	39	0	1-8	1-8	1-8	1-8
D	36	0	40	0	1-8	1-8	1-8	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST CASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
F	195	132 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0
C	27	21 / -23	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
D	29	0 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	LC1 (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FORCE (LBS)	LC1 (LC)
FR-TO		FROM TO						
F-B	-241 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 38	-84.9	-84.9	0.14 (5)	10.00			
B-C	-27 / 0	-84.9	-84.9	0.13 (5)	6.25			
F-E	0 / 0	-18.5	-18.5	0.08 (4)	10.00			
E-G	0 / 0	-18.5	-18.5	0.08 (4)	10.00			
G-D	0 / 0	-18.5	-18.5	0.08 (4)	10.00			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	1	1	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.14/1.00 (A-B:5), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.08/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

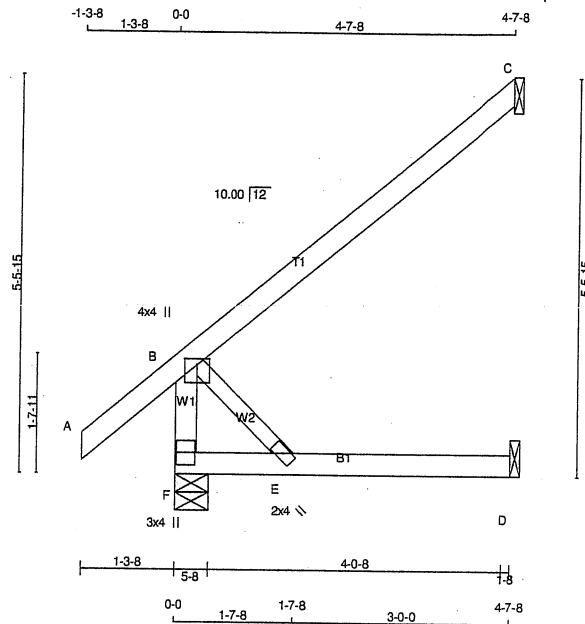


Structural component only
DWG# T-2126286

JOB NAME 420230	TRUSS NAME J4	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. Wed Aug 4 08:05:16 2021 Page 1
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Scale = 1:30.3

TOTAL WEIGHT = 17 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMV+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
F	357	0	0	5-8
C	196	0	0	1-8
D	43	0	0	1-8

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

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	COMBINED					
F	251	172 / 0	0 / 0	0 / 0	79 / 0	0 / 0
C	135	108 / 0	0 / 0	0 / 0	28 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-B	-314 / 0	B-E	0 / 0
A-B	0 / 38		
B-C	0 / 0		
F-E	0 / 0		
E-D	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/999 (0.02")

CSI: TC=0.31/1.00 (B-C:1), BC=0.12/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

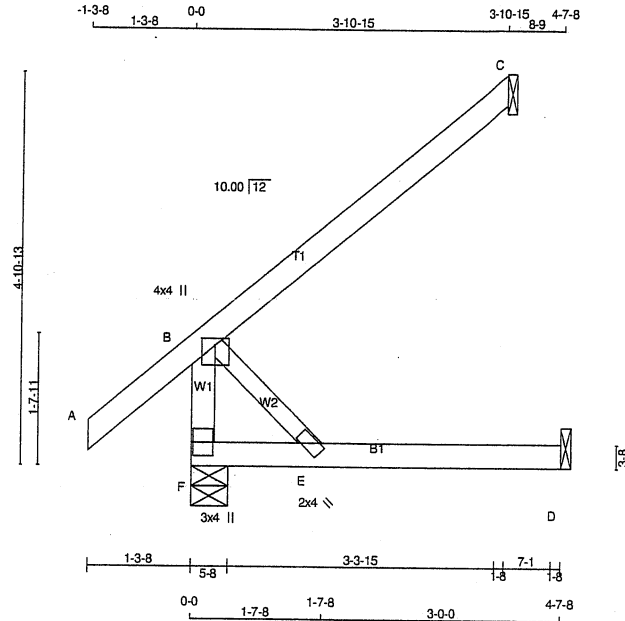


Structural component only
DWG# T-2126287

JOB NAME 420230	TRUSS NAME J4C	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. Wed Aug 4 08:05:17 2021 Page 1
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Scale = 1:27.5



TOTAL WEIGHT = 16 lb

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMV+w	MT20	2.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES: (1)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
F	326	0	326	0
C	166	0	166	0
D	43	0	48	0

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	230	156 / 0	0 / 0	0 / 0	0 / 0	74 / 0	0 / 0
C	115	91 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	34	0 / 0	0 / 0	0 / 0	0 / 0	34 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
F-B	-284 / 0	0.0	0.0	0.03 (1)	7.81	0 / 0	0.00 (1)
A-B	0 / 38	-84.9	-84.9	0.12 (1)	10.00		
B-C	0 / 0	-84.9	-84.9	0.22 (1)	10.00		
F-E	0 / 0	-18.5	-18.5	0.10 (4)	10.00		
E-D	0 / 0	-18.5	-18.5	0.12 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.22/1.00 (B-C:1), BC=0.12/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

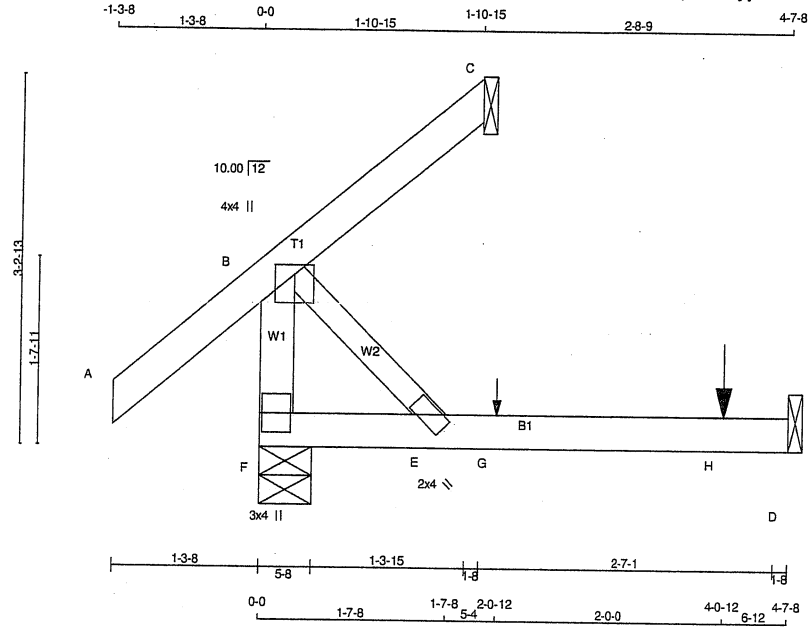


Structural component only
DWG# T-2126288

JOB NAME 420230	TRUSS NAME J4C1	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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Scale = 1:19.2

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
E	BMV+w	MT20	2.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
F	284	0	284	0	0	5-8	5-8		
C	39	0	39	0	0	1-8	1-8		
D	46	0	52	0	0	1-8	1-8		

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	201	132/0	0/0	0/0	0/0	69/0	0/0
C	27	21/0	0/0	0/0	0/0	5/0	0/0
D	37	0/0	0/0	0/0	0/0	37/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		W E B S		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
F-B	-241/0	0.0	0.0	0.03 (1)	B-E	0/0	0.00 (1)
A-B	0/38	-84.9	-84.9	0.12 (1)			
B-C	-27/0	-84.9	-84.9	0.11 (1)			
F-E	0/0	-18.5	-18.5	0.10 (4)			
E-G	0/0	-18.5	-18.5	0.12 (4)			
G-H	0/0	-18.5	-18.5	0.12 (4)			
H-D	0/0	-18.5	-18.5	0.12 (4)			

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	1	---	---	FRONT	VERT	TOTAL	---	C1
H	4-0-12	-3	-3	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.12/1.00 (A-B:1), BC=0.12/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.07/1.00 (B-C:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

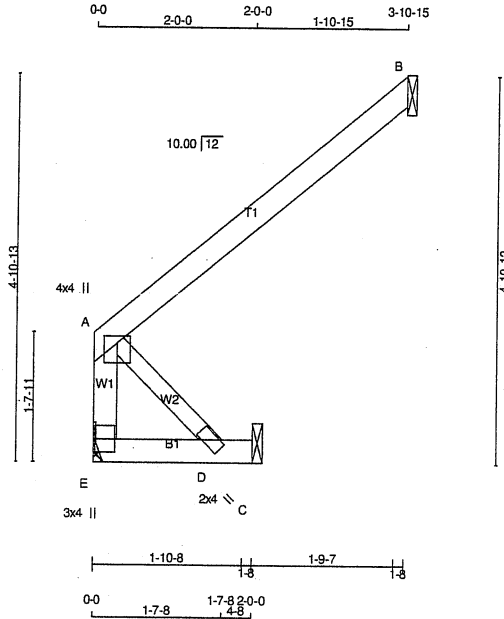
JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126289

JOB NAME 420230	TRUSS NAME J4C2	QUANTITY 1	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:27.8

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW+p	MT20	4.0	4.0	1.00 2.00
D	BMV+w	MT20	2.0	4.0	
E	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
E	184	0	184	0	0	1-8	1-8	1-8	1-8
B	166	0	166	0	0	1-8	1-8	1-8	1-8
C	18	0	21	0	0	1-8	1-8	1-8	1-8

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

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

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	129	91/0	0/0	0/0	0/0	38/0	0/0
B	115	91/0	0/0	0/0	0/0	23/0	0/0
C	15	0/0	0/0	0/0	0/0	15/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	MAX	LC1 (LBS)
FR-TO		FROM TO		FR-TO			
E-A	-166/0	0.0 0.0 0.02 (1)	7.81	A-D	0/0	0.00 (1)	
A-B	0/0	-84.9 -84.9 0.22 (1)	10.00				
E-D	0/0	-18.5 -18.5 0.02 (4)	10.00				
D-C	0/0	-18.5 -18.5 0.02 (4)	10.00				

TOTAL WEIGHT = 11 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.22/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (A-D:1), SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

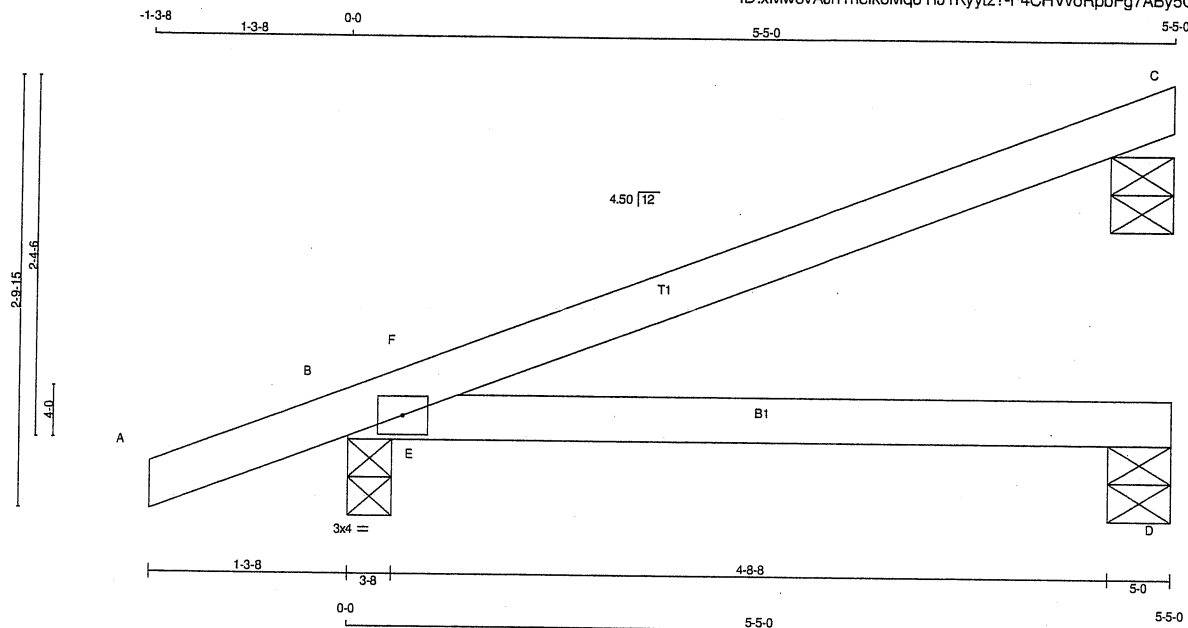
JSI GRIP = 0.12 (A) (INPUT = 0.90)
JSI METAL = 0.03 (A) (INPUT = 1.00)



Structural component only
DWG# T-2126290

JOB NAME 420230	TRUSS NAME J5	QUANTITY 9	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:xMw3vAjh1ncl6MqoYlJ1Kyytz?-F4CHVvoRpbFg7ABY5QnSE1cTk98G79jf?i8fRyrljz



TOTAL WEIGHT = 9 X 14 = 130 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMB1-4	MT20	3.0	4.0

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX		REQ'D BRG IN-SX	
	VERT	HORZ	DOWN	HORZ	UPLIFT			
C	201	0	201	0	0	5-0	5-0	
B	394	0	394	0	0	3-8	3-8	
D	79	0	79	0	0	5-0	5-0	

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): C

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
	SNOW	LIVE	SNOW	LIVE	PERM. LIVE		WIND		DEAD		SOIL	
C	140	106 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0	0 / 0	0 / 0
B	277	189 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0	0 / 0	0 / 0
D	59	20 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. FACTORED VERT. LOAD (LC1) (LC)		MAX. FACTORED VERT. LOAD (LC1) (LC)		MAX. FACTORED VERT. LOAD (LC1) (LC)		MAX. FACTORED VERT. LOAD (LC1) (LC)	
	FR-TO		FROM	TO	FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 19		-84.9	-84.9	0.11 (1)	10.00	E-F	-285 / 11	0.00 (1)			
B-F	-20 / 20		-84.9	-84.9	0.06 (4)	6.25						
F-C	-2 / 2		-84.9	-84.9	0.32 (1)	10.00						
B-E	0 / 0		-18.5	-18.5	0.22 (1)	10.00						
E-D	0 / 0		-18.5	-18.5	0.23 (1)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN./C

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

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/663 (0.10")

CSI: TC=0.32/1.00 (C-F:1), BC=0.23/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.24/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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.

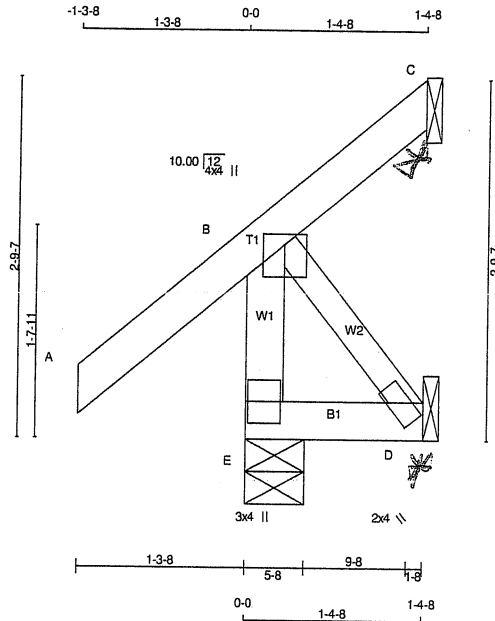
JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126291

JOB NAME 420305	TRUSS NAME J6	QUANTITY 3	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:Mw3vAjh1ncl6MqoYlJ1Kyytz?-c517o9VxF5o8vZKSxcmJl23Srlj3xetWYkPr0Gyrl3k



Scale = 1:17.0

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	
CHORDS			
E - B	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	X
B	TMW+p	MT20	4.0	4.0	1.00 2.00
D	BMW1+w	MT20	2.0	4.0	2.75 0.25
E	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
E	247	0	247	0	0	5-8	5-8	5-8	5-8
C	0	0	0	0	-52	1-8	1-8	1-8	1-8
D	11	0	13	0	0	1-8	1-8	1-8	1-8

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

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	171	129 / 0	0 / 0	0 / 0	0 / 0	42 / 0	0 / 0
C	0	0 / -32	0 / 0	0 / 0	0 / 0	0 / -0	0 / 0
D	9	0 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		W E B S		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
E-B	-235 / 0	0.0	0.0	0.03 (1)	7.81	B-D	0 / 0
A-B	0 / 38	-84.9	-84.9	0.12 (1)	10.00		
B-C	-38 / 0	-84.9	-84.9	0.11 (1)	6.25		
E-D	0 / 0	-18.5	-18.5	0.01 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 9 = 26 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	PSF

SPACING = 24.0 IN. C/C

THIS DESIGN 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.01/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SSI=0.07/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (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= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

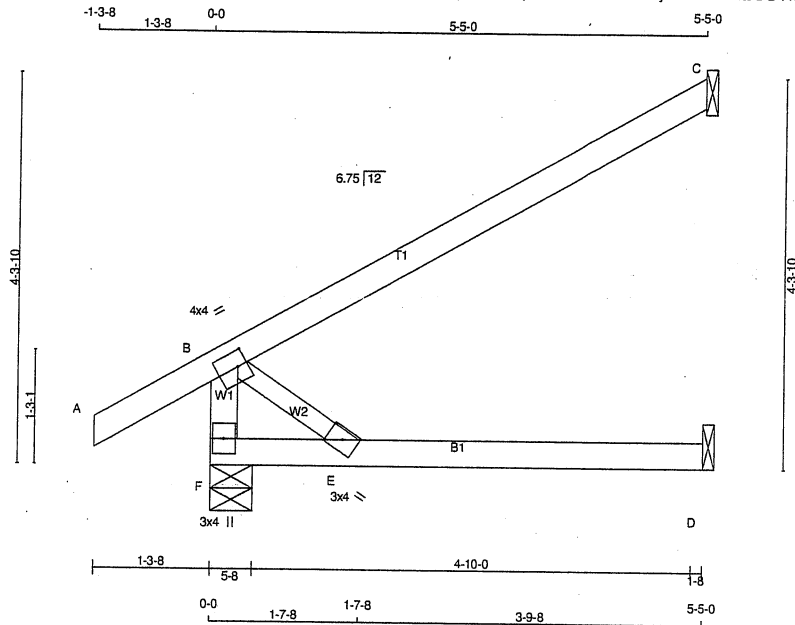


Structural component only
DWG# T-2126322

JOB NAME 420307	TRUSS NAME J7	QUANTITY 13	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:3j58QWzqAirhOuMwta7eUuyvWFd-YEitJDSYfeMWWuAR4EW4cO6sb6EOXPNVZdXKtdyrHsu

Scale: 1/2"=1'



LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	396	0	396	0	5-8	5-8
C	230	0	230	0	1-8	1-8
D	50	0	56	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	279	190 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0
C	159	126 / 0	0 / 0	0 / 0	0 / 0	32 / 0	0 / 0
D	40	0 / 0	0 / 0	0 / 0	0 / 0	40 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
F-B	-346 / 0	0.0 0.0	0.04 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 28	-84.9 -84.9	0.11 (1)	10.00			
B-C	0 / 0	-84.9 -84.9	0.42 (1)	10.00			
F-E	0 / 0	-18.5 -18.5	0.12 (4)	10.00			
E-D	0 / 0	-18.5 -18.5	0.16 (4)	10.00			

TOTAL WEIGHT = 13 X 17 = 225 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: $TC=0.42/1.00$ (B-C:1), $BC=0.16/1.00$ (D-E:4),
 $WB=0.00/1.00$ (B-E:1), $SSI=0.16/1.00$ (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

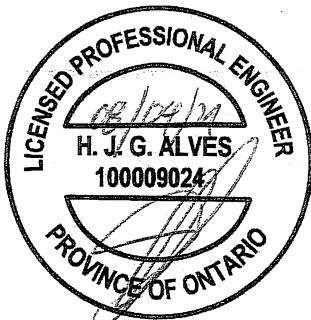
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)

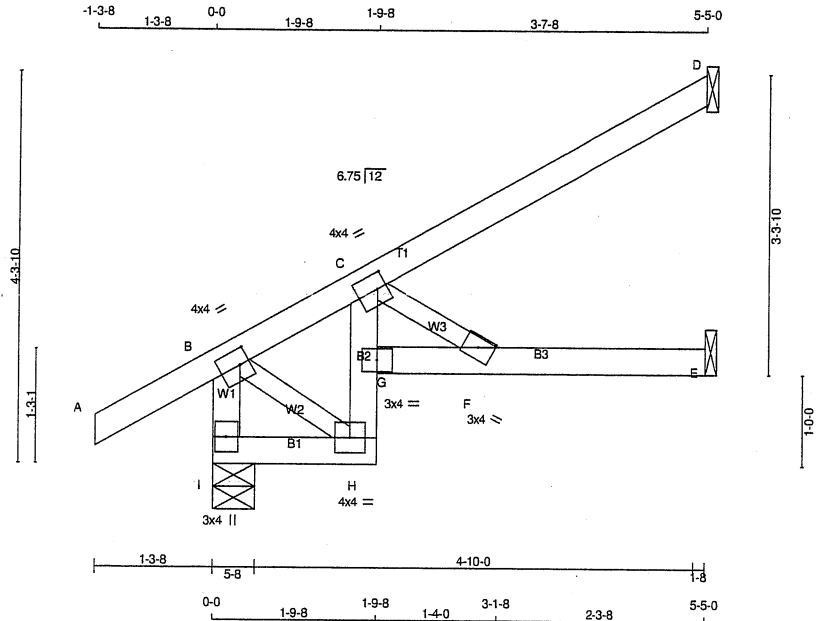


Structural component only
DWG# T-2126329

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ROYAL PINE HOMES	DRWG NO.
420570	J7S	8	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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Scale: 1/2"=1'

LUMBER					DESCR.
N.L.G.A. RULES	CHORDS	SIZE	LUMBER		
I - B	2x4	DRY	No.2	SPF	
A - D	2x4	DRY	No.2	SPF	
I - H	2x4	DRY	No.2	SPF	
H - C	2x4	DRY	No.2	SPF	
G - E	2x4	DRY	No.2	SPF	
ALL WEBS 2x3 DRY					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	TMVW-t	MT20	4.0	4.0	2.00 1.25
F	BMVW-w	MT20	3.0	4.0	
G	BMVW-t	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	REQD BRG	
	VERT	HORZ	DOWN	HORZ		IN-SX	IN-SX
I	410	0	410	0	5-8	5-8	
D	163	0	163	0	1-8	1-8	
E	102	0	102	0	1-8	1-8	

SEE MITTEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) D, E

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	289	198 / 0	0 / 0	0 / 0	0 / 0	91 / 0	0 / 0
D	113	85 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
E	75	33 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0

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

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		VERT. LOAD (PLF)	LC1 MAX	UNBRAC LENGTH	MEMB.	WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED (PLF)					MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO				FR-TO		
I-B	-395 / 0	0.0 0.0	0.04 (1)	7.81	B-H	0 / 157	0.04 (1)	
A-B	0 / 28	-84.9 -84.9	0.11 (1)	10.00	C-F	-356 / 0	0.05 (1)	
B-C	-183 / 0	-84.9 -84.9	0.11 (1)	6.25				
C-D	0 / 4	-84.9 -84.9	0.21 (1)	10.00				
I-H	0 / 0	-18.5 -18.5	0.01 (4)	10.00				
H-G	-63 / 0	0.0 0.0	0.19 (1)	7.81				
G-C	0 / 105	0.0 0.0	0.20 (1)	10.00				
G-F	0 / 294	-18.5 -18.5	0.32 (1)	10.00				
F-E	0 / 0	-18.5 -18.5	0.27 (1)	10.00				

TOTAL WEIGHT = 8 X 20 = 162 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/809 (0.08")

CSI: TC=0.21/1.00 (C-D:1), BC=0.32/1.00 (F-G:1), WB=0.05/1.00 (C-F:1), SS=0.13/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

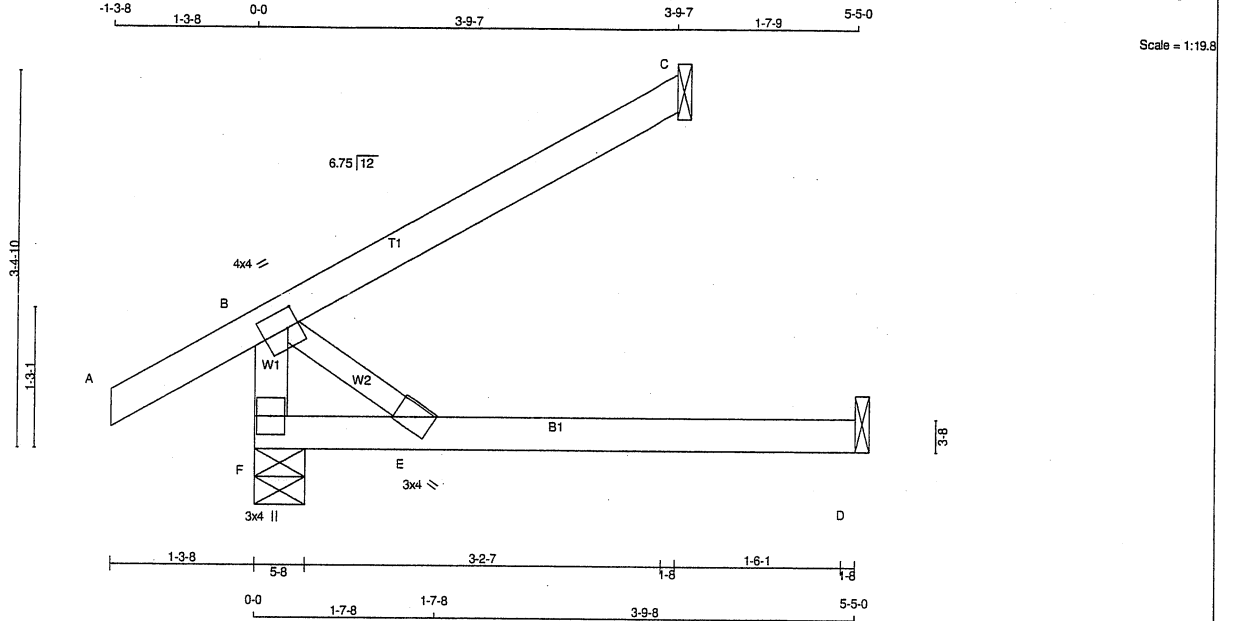
JSI GRIP = 0.25 (C) (INPUT = 0.90)
JSI METAL = 0.13 (F) (INPUT = 1.00)



Structural component only
DWG# T-2126363

JOB NAME 420307	TRUSS NAME J7C	QUANTITY 4	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:3j58QWzqAirhOuMwta7eUuyvWFd-0QFFXZTAQyUN82ldey1J8be4kVaFGscoHGtP3yrHst



TOTAL WEIGHT = 4 X 15 = 61 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	4.0	4.0	2.00 1.25
E	BMV-w	MT20	3.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	326	0	326	0	5-8	5-8
C	161	0	161	0	1-8	1-8
D	50	0	56	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
F	231	152 / 0	0 / 0	0 / 0	79 / 0	0 / 0	0 / 0
C	111	88 / 0	0 / 0	0 / 0	23 / 0	0 / 0	0 / 0
D	40	0 / 0	0 / 0	0 / 0	40 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

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					FR-TO		
F-B	-276 / 0	0.0	0.0 0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 28	-84.9	-84.9 0.11 (1)	10.00			
B-C	0 / 0	-84.9	-84.9 0.21 (1)	10.00			
F-E	0 / 0	-18.5	-18.5 0.12 (4)	10.00			
E-D	0 / 0	-18.5	-18.5 0.16 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.21/1.00 (B-C:1), BC=0.16/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



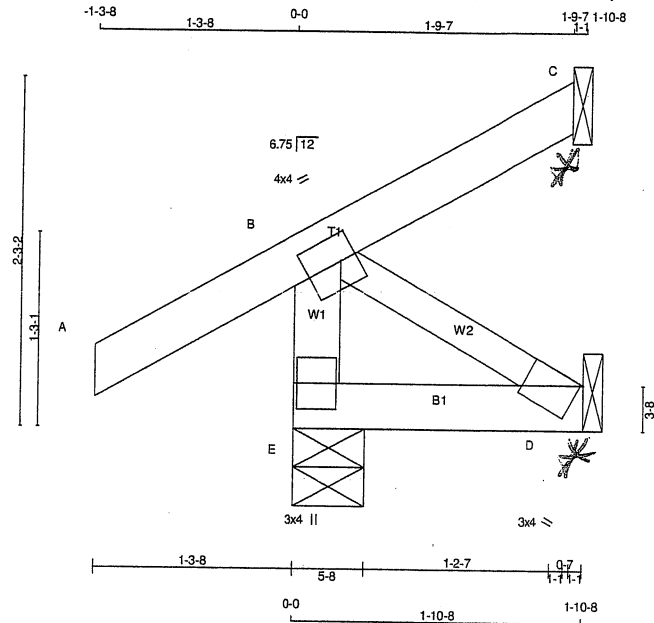
Structural component only
DWG# T-2126330

Tamarack Roof Truss, Burlington



JOB NAME 420307	TRUSS NAME J7C2	QUANTITY 6	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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Scale = 1:14.2

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
E - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
E - D	2x4	DRY	No.2
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
D	BMW1+w	MT20	3.0	4.0	2.00 1.75
E	BMV1+p	MT20	3.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	251	0	251	0	5-8	5-8
C	32	0	32	0	1-8	1-8
D	15	0	17	0	1-8	1-8

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

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

UNFACTORED REACTIONS

1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS					
JT		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	175	129 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0
C	22	17 / -24	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	12	0 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		W E B S	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC)	MEMB. MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM TO		UNBRAC LENGTH	FR-TO	
E-B	-236 / 0	0.0	0.0	0.02 (1)	7.81	0 / 0
A-B	0 / 28	-84.9	-84.9	0.11 (1)	10.00	
B-C	-22 / 0	-84.9	-84.9	0.11 (1)	6.25	
E-D	0 / 0	-18.5	-18.5	0.02 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 9 = 52 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

THIS DESIGN 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL(TL) = L/360 (0.19")

CALCULATED VERT. DEFL(TL) = L/999 (0.00")

CSI: TC=0.11/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SSI=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.15 (B) (INPUT = 0.90)
JSI METAL = 0.04 (B) (INPUT = 1.00)

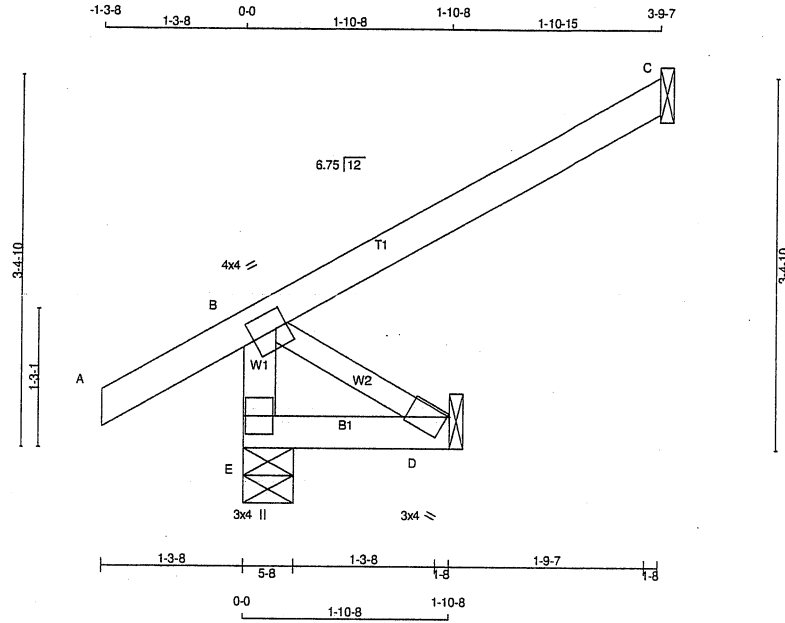


Structural component only
DWG# T-2126332

JOB NAME 420307	TRUSS NAME J7C3	QUANTITY 6	PLY 1	JOB DESC. ROYAL PINE HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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Scale = 1:20.0



TOTAL WEIGHT = 6 X 11 = 68 lb

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMW-t	MT20	4.0	4.0	2.00 1.25
D	BMW1+w	MT20	3.0	4.0	
E	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
E	292	0	0	292	0	0	5-8	5-8	5-8
C	161	0	0	161	0	0	1-8	1-8	1-8
D	15	0	0	17	0	0	1-8	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	203	152 / 0	0 / 0	0 / 0	0 / 0	51 / 0	0 / 0
C	111	88 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	12	0 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	MAX	LC1 (LBS)
FR-TO		FROM	TO	FR-TO			
E-B	-276 / 0	0.0	0.0 0.03 (1)	7.81	B-D	0 / 0	0.00 (1)
A-B	0 / 28	-84.9	-84.9 0.12 (5)	10.00			
B-C	0 / 0	-84.9	-84.9 0.21 (1)	10.00			
E-D	0 / 0	-18.5	-18.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	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

(5% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.21/1.00 (B-C:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

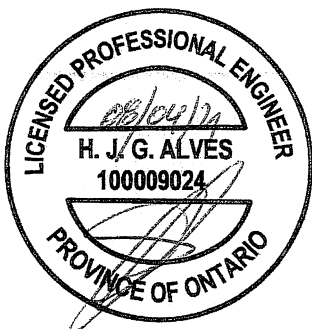
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

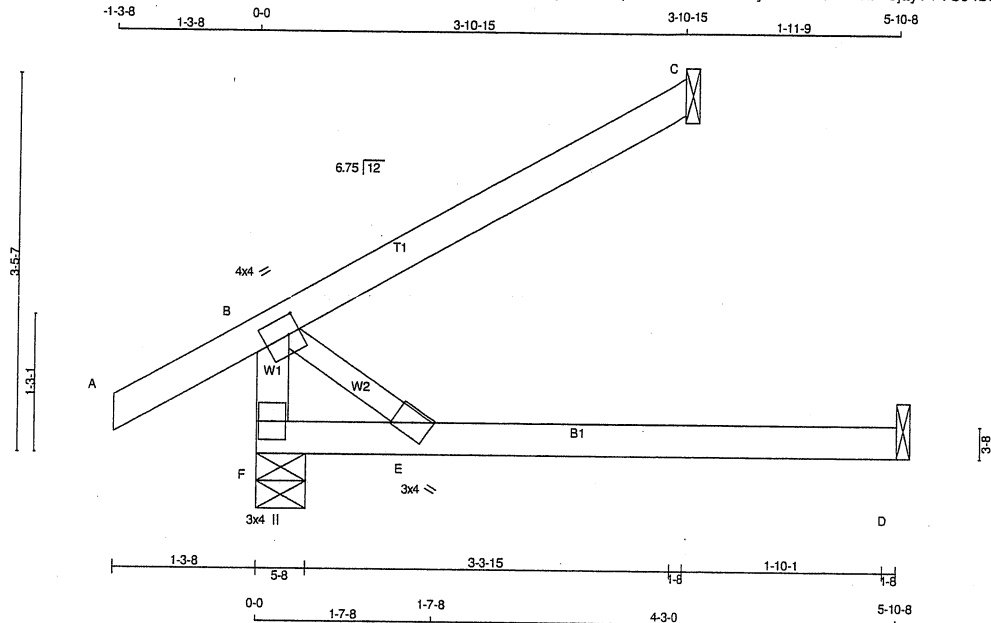
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126333

JOB NAME 420307	TRUSS NAME J8	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. Wed Aug 4 09:04:09 2021 Page 1 ID:3j58QWzqAirhOuMwta7eUuyvWFd-Q?xO9bV3jity?VTCJ4b0mEGamjbVDTM5UFVX0OyrHsq					



Scale = 1:20.1

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

SPF
SPF
SPF
SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	4.0	2.00	1.25
E	BMV-w	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

NOTES- (1)

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	VERT 336	DOWN 336	0	5-8
C	HORZ 166	HORZ 166	0	1-8
D	VERT 54	DOWN 61	0	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
F	COMBINED	SNOW 155 / 0	0 / 0	83 / 0	0 / 0
C		LIVE 91 / 0	0 / 0	23 / 0	0 / 0
D		PERM. LIVE 0 / 0	0 / 0	43 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
F-B	-282 / 0	0.0	0.0	0.03 (1)	7.81	0 / 0	0.00 (1)
A-B	0 / 28	-84.9	-84.9	0.11 (1)	10.00		
B-C	0 / 0	-84.9	-84.9	0.22 (1)	10.00		
F-E	0 / 0	-18.5	-18.5	0.14 (4)	10.00		
E-D	0 / 0	-18.5	-18.5	0.19 (4)	10.00		

TOTAL WEIGHT = 16 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	36.7	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.22/1.00 (B-C:1), BC=0.19/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

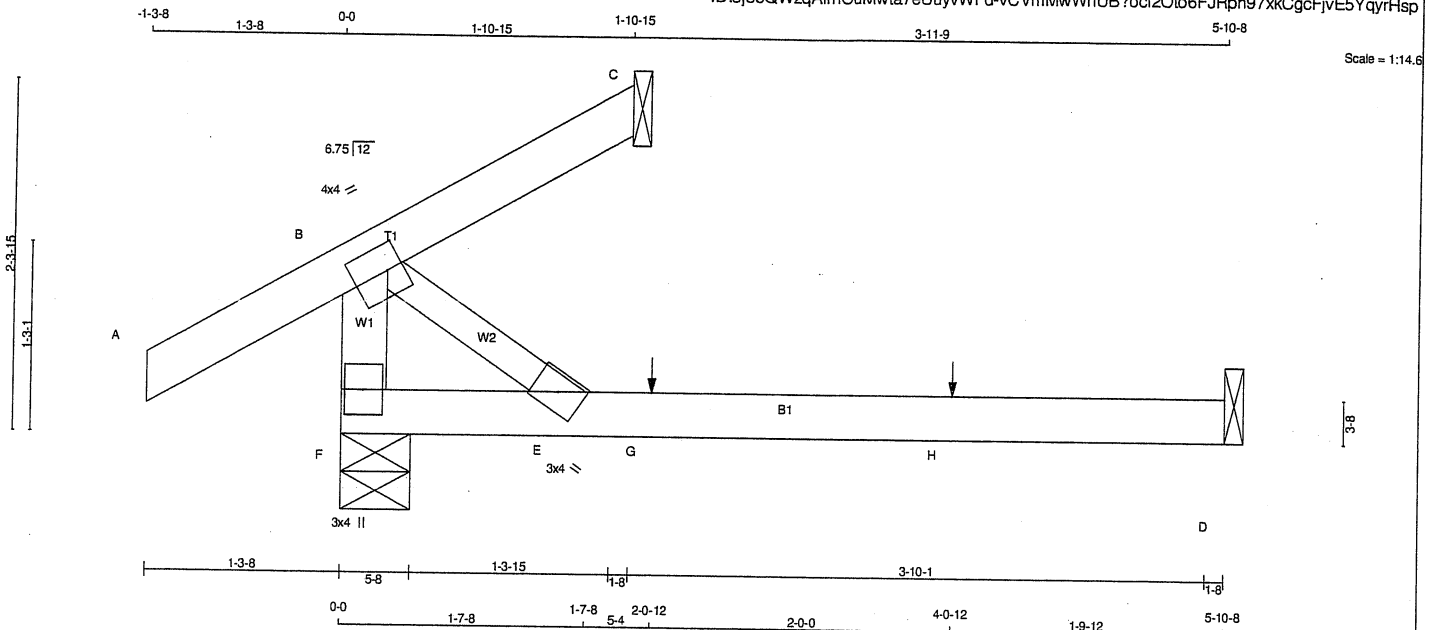
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126334

JOB NAME 420307	TRUSS NAME J8C	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. Wed Aug 4 09:04:10 2021 Page 1 ID:3j58QWzqAirhOuMwta7eUuyvWFd-vCVmMwWhUB?ocf2Oto6FJRpn97xkGcgFjvE5YqyrHsp	



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-t	MT20	4.0	4.0	2.00 1.25
E	BMV-w	MT20	3.0	4.0	
F	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F		251	0	251	0	0	5-8	5-8	
C		81	0	81	0	0	1-8	1-8	
D		54	0	61	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

1ST LCASE COMBINED		MAX./MIN. COMPONENT REACTIONS						
JT		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F		179	108/0	0/0	0/0	71/0	0/0	
C		56	45/0	0/0	0/0	11/0	0/0	
D		43	0/0	0/0	0/0	43/0	0/0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. LC1 MAX. CSI (LC)		MAX. UNBRACED LENGTH		WEBS		MAX. FACTORED FORCE (LBS)		MAX. CSI (LC)	
MEMB.										MEMB.					
FR-TO										FR-TO					
F-B		-197/0		0.0	0.0	0.02 (1)		7.81		B-E		0/0		0.00 (1)	
A-B		0/28		-84.9	-84.9	0.12 (1)		10.00							
B-C		0/0		-84.9	-84.9	0.05 (1)		10.00							
F-E		0/0		-18.5	-18.5	0.14 (4)		10.00							
E-G		0/0		-18.5	-18.5	0.19 (4)		10.00							
G-H		0/0		-18.5	-18.5	0.19 (4)		10.00							
H-D		0/0		-18.5	-18.5	0.19 (4)		10.00							

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1
H	4-0-12	1	1	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 13 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.12/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.08/1.00 (A-B:1)

DOL LUMBER=0.97 NAIL=0.97 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)
MT20	MAX MIN	MAX MIN	MAX MIN
	650 371	1747 788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

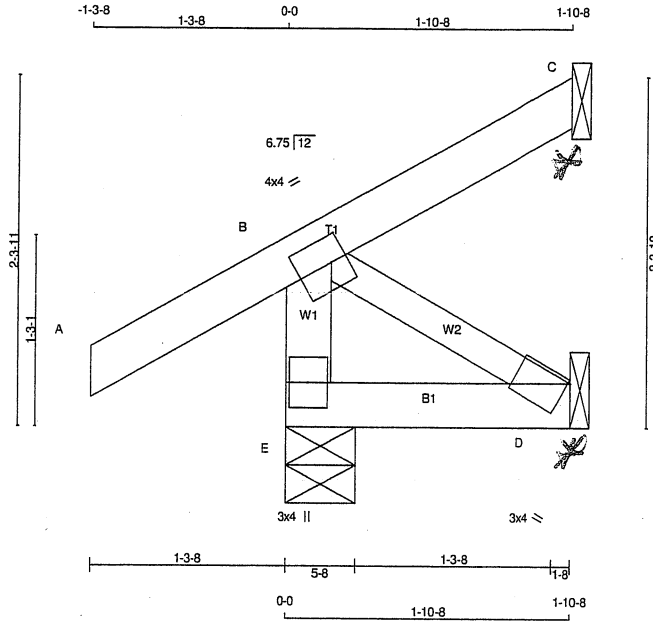
JSI GRIP= 0.13 (B) (INPUT = 0.90)
JSI METAL= 0.03 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126335

JOB NAME 420307	TRUSS NAME J9	QUANTITY 3	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. Wed Aug 4 09:04:11 2021 Page 1
ID:3j58QWzqAirhOuMwta7eUuyvWFd-NO38aGWJFU7fEpdbrVdUrfLyzWJfx7sOyZ_e4HyrHso



TOTAL WEIGHT = 3 X 9 = 26 lb

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
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
D	BMV1+w	MT20	3.0	4.0	
E	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
E	253	0	253	0	0	5-8	5-8	5-8	5-8
C	38	0	38	0	-32	1-8	1-8	1-8	1-8
D	15	0	17	0	0	1-8	1-8	1-8	1-8

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

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

UNFACTORED REACTIONS

1ST LOASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	176	130 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0
C	26	21 / -23	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
D	12	0 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	UNBRAC LENGTH
FR-TO		FROM	TO	FR-TO			
E-B	-237 / 0	0.0	0.0 0.02 (1)	B-D	0 / 0	0.00 (1)	7.81
A-B	0 / 28	-84.9	-84.9 0.11 (1)				10.00
B-C	-21 / 0	-84.9	-84.9 0.11 (1)				6.25
E-D	0 / 0	-18.5	-18.5 0.02 (4)				10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	36.7	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.11/1.00 (A-B:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SSI=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(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= 0.15 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 1.00)



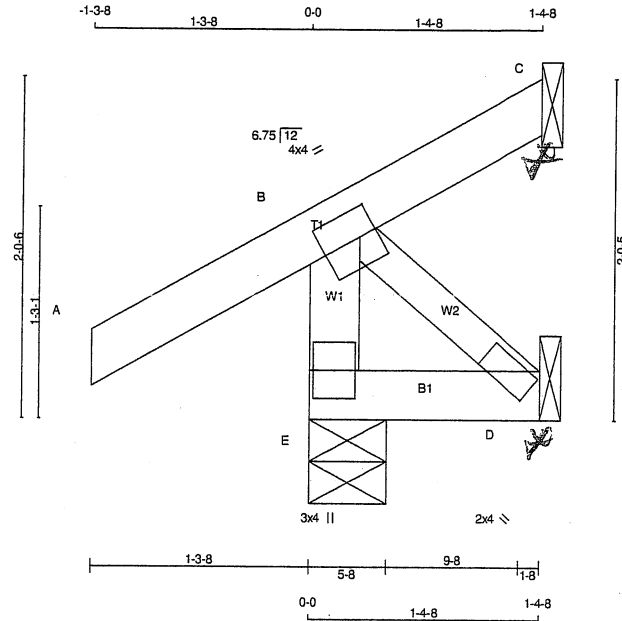
Structural component only
DWG# T-2126336

Structural component only
DWG# T-2126337

JSI GRIP= 0.16 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 1.00)

JOB NAME 420570	TRUSS NAME J12	QUANTITY 3	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. Wed Aug 4 10:14:13 2021 Page 1
ID:3j58QWzqAirhOuMwta7eUuyvWFd-LnygU4N4gZXSMZsAb?0t9mO2XNSrUY6uBJs?ajyrGr8



Scale = 1:13.1

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMW1-t	MT20	4.0	4.0	2.00 1.25
D	BMW1-w	MT20	2.0	4.0	3.25
E	BMV1+p	MT20	3.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	CH	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
E	1	243	0	243	0	5-8	5-8	5-8	5-8
C	1	0	1	0	-50	1-8	1-8	1-8	1-8
D	11	0	13	0	0	1-8	1-8	1-8	1-8

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

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	169	127 / 0	0 / 0	0 / 0	0 / 0	42 / 0	0 / 0
C	1	1 / -31	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
D	9	0 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		W E B S		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
E-B	-231 / 0	0.0	0.0 0.02 (1)	B-D	0 / 0	0.00 (1)	
A-B	0 / 28	-84.9	-84.9 0.11 (1)				
B-C	-28 / 0	-84.9	-84.9 0.11 (1)				
E-D	0 / 0	-18.5	-18.5 0.01 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 7 = 22 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 36.7 PSF

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.11/1.00 (A-B:1), BC=0.01/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SS=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (B) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 1.00)



Structural component only
DWG# T-2126364



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-1800218

Feb 09, 2018

TOE-NAIL CAPACITY DETAILS

LATERAL AND WITHDRAWAL RESISTANCE OF BEARING ANCHORAGE BY TOE-NAILS

			SPF	D. FIR	SPF	D. FIR
COMMON WIRE	3.00	0.144	122	139	30	42
	3.25	0.144	127	144	32	45
	3.50	0.160	152	173	38	52
COMMON SPIRAL	3.00	0.122	96	108	26	36
	3.25	0.122	97	108	28	40
	3.50	0.152	142	161	36	50
3.25" Gun nail	3.25	0.120	94	105	28	39

Note: If using truss with D. Fir lumber and SPF bearing plate, use tabulated SPF values in table.

Nail type:	Common wire	Common spiral	Common wire	Common spiral	Gun Nail
Diameter (in.)	0.160	0.152	0.144	0.122	0.120
Length (in.)	3.50	3.50	3.00	3.00	3.25
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

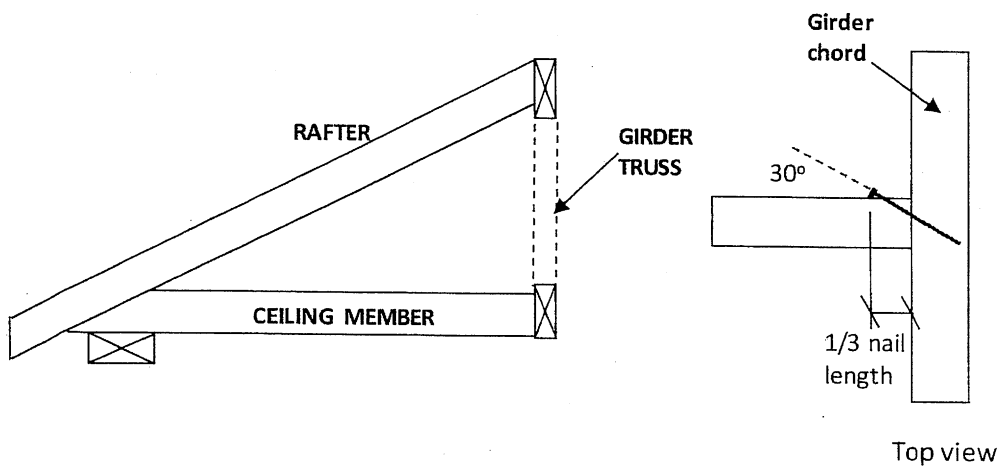


Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss

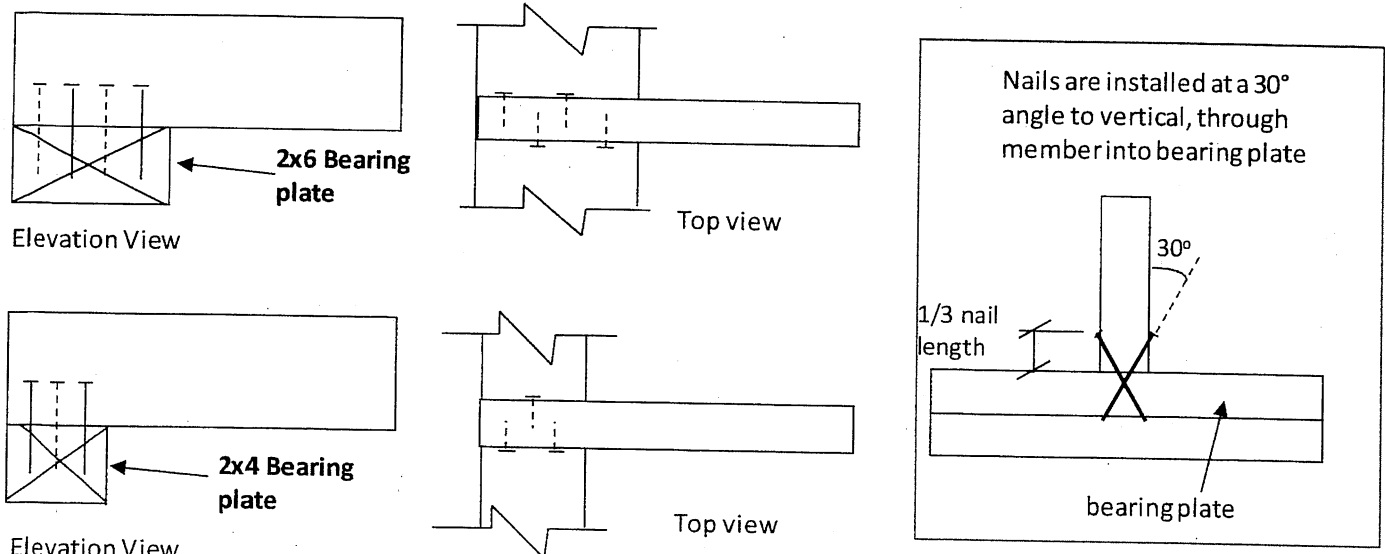
PEO
Certificate No. 10889485



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.

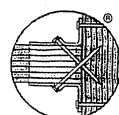
Finish: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 18–20.

Installation:

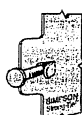
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

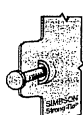
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on pp. 105–107.



Double-Shear
Nailing
Top View

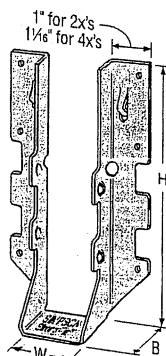
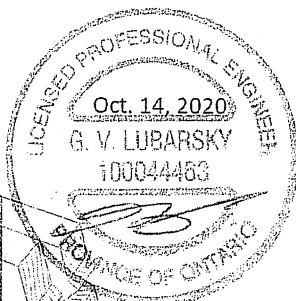
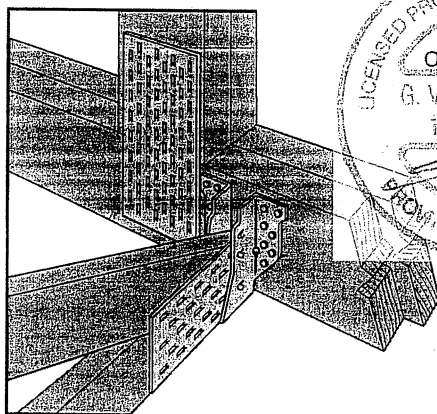


Double-Shear
Nailing
Side View;
Do not
bend tab

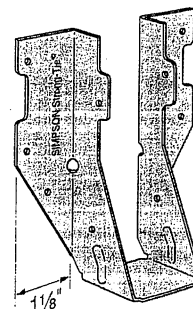


Dome Double-Shear
Nailing
Side View
(available on
some models)

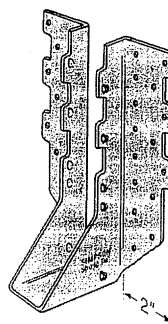
Typical HUS26
Installation
with Reduced
Heel Height
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



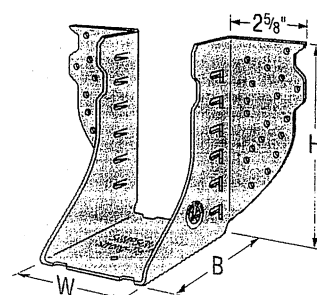
LUS28



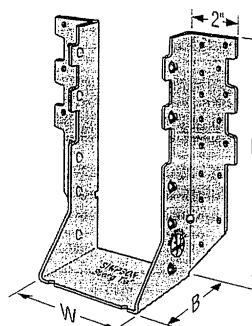
LU26L



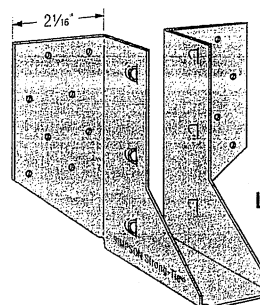
HUS210
(HUS26, HUS28,
and HHUS similar)



HGUS28-2



HHUS210-2



LJS26DS

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:

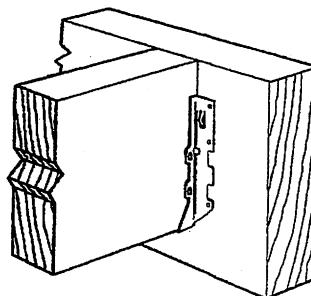
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

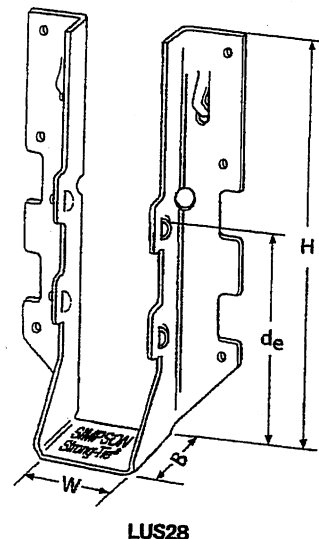
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire,
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

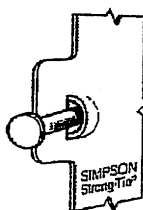


Typical LUS
Installation



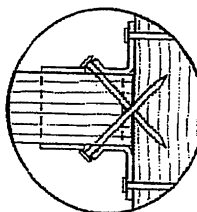
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _u =1.15)	Normal (K _u =1.00)	Uplift (K _u =1.15)	Normal (K _u =1.00)
LUS24	18	1½	3½	1¾	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3½	3½	2	1 13/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1½	4¾	1¾	3½	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3½	4¾	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4¾	4 15/16	2	3¾	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1½	6¾	1¾	3¾	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3½	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4¾	6¾	2	3¾	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1½	7 15/16	1¾	3½	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3½	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4¾	8 3/8	2	5¼	(8) 16d	(6) 16d	2580	3345	2320	2375

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

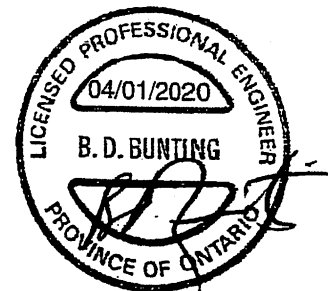


Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models).

U.S. Patent
5,603,580



Double
Shear
Nailing
Top View.



**LIMIT
STATES
DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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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:

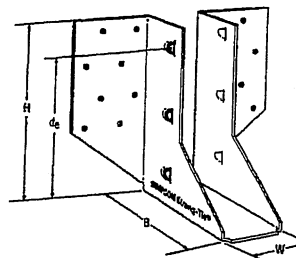
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

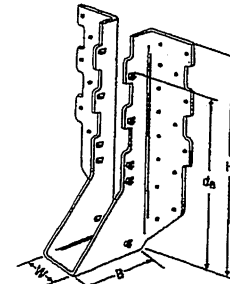
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

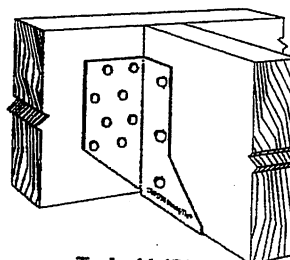
- See current catalogue for options



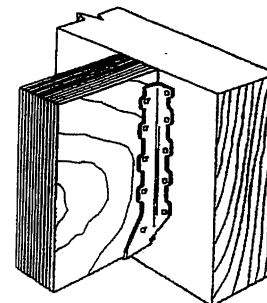
LJS26DS



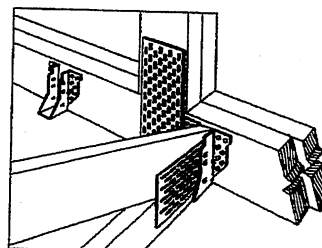
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



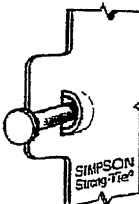
Typical HUS
Installation



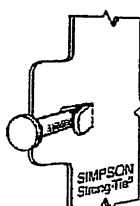
Typical HUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

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)	Normal (K _o =1.00)	Uplift (K _u =1.15)	Normal (K _o =1.00)
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 3/8	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 3/2	3	7 3/2	(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

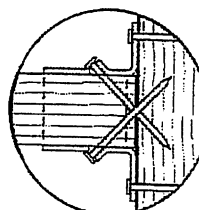
1. d_e is the distance from the seat of the hanger to the highest joist nail.



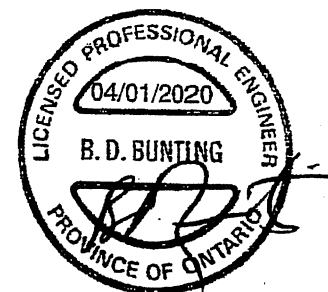
Dome Double Shear Nailing prevents tabs breaking off (available on some models).
U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-SPECHUS20 3/20 exp. 6/22

(800) 999-5099
strongtie.com

HGUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

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

Material: 12 gauge

Finish: G90 galvanized

Design:

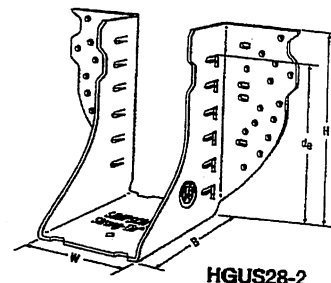
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

Installation:

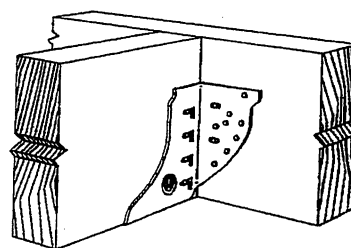
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

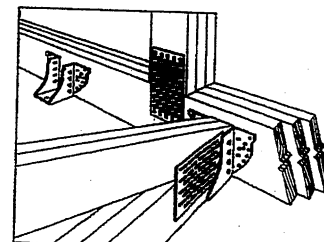
- See current catalogue for options



HGUS28-2



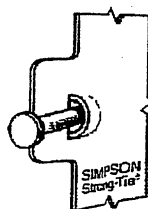
Typical HGUS Installation



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

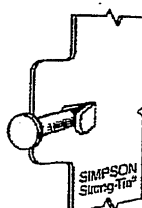
Model No.	Ga.	Dimensions (in.)					Fasteners		Factored Resistance (lb.)			
		W	H	B	d ₁	Face	Joist		D.Fir-L		S-P-F	
									Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
HGUS26	12	1½	5½	5	4½	(20) 16d	(8) 16d		2685	6625	2685	5700
HGUS26-2	12	3½	5½	4	4½	(20) 16d	(8) 16d		4385	8950	3100	6355
HGUS26-3	12	4½	5½	4	4½	(20) 16d	(8) 16d		4385	8950	3100	6355
HGUS26-4	12	6½	5½	4	4½	(20) 16d	(8) 16d		4385	8950	3100	6355
HGUS28	12	1½	7½	5	6½	(36) 16d	(12) 16d		3310	7675	3100	6900
HGUS28-2	12	3½	7½	4	6½	(36) 16d	(12) 16d		6070	12980	4310	9215
HGUS28-3	12	4½	7½	4	6½	(36) 16d	(12) 16d		6070	12980	4310	9215
HGUS28-4	12	6½	7½	4	6½	(36) 16d	(12) 16d		6070	12980	4310	9215
HGUS210	12	1½	9½	5	7½	(46) 16d	(16) 16d		3535	11070	2510	8090
HGUS210-2	12	3½	9½	4	8½	(46) 16d	(16) 16d		6840	14015	4855	10270
HGUS210-3	12	4½	9½	4	8½	(46) 16d	(16) 16d		6840	14645	4855	10400
HGUS210-4	12	6½	9½	4	8½	(46) 16d	(16) 16d		6840	14645	4855	10400
HGUS212-4	12	6½	10½	4	10½	(56) 16d	(20) 16d		7640	14995	5425	10645
HGUS214-4	12	6½	12½	4	11½	(66) 16d	(22) 16d		10130	16400	7195	11645

1. d₁ is the distance from the seat of the hanger to the highest joist nail.

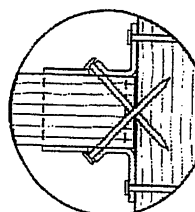


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

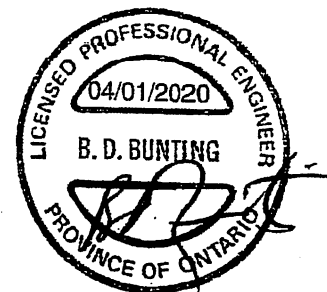
U.S. Patent
5,603,580



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



Double Shear Nailing Top View.



**LIMIT
STATES
DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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T-SPECHGUS20 3/20 exp. 6/22

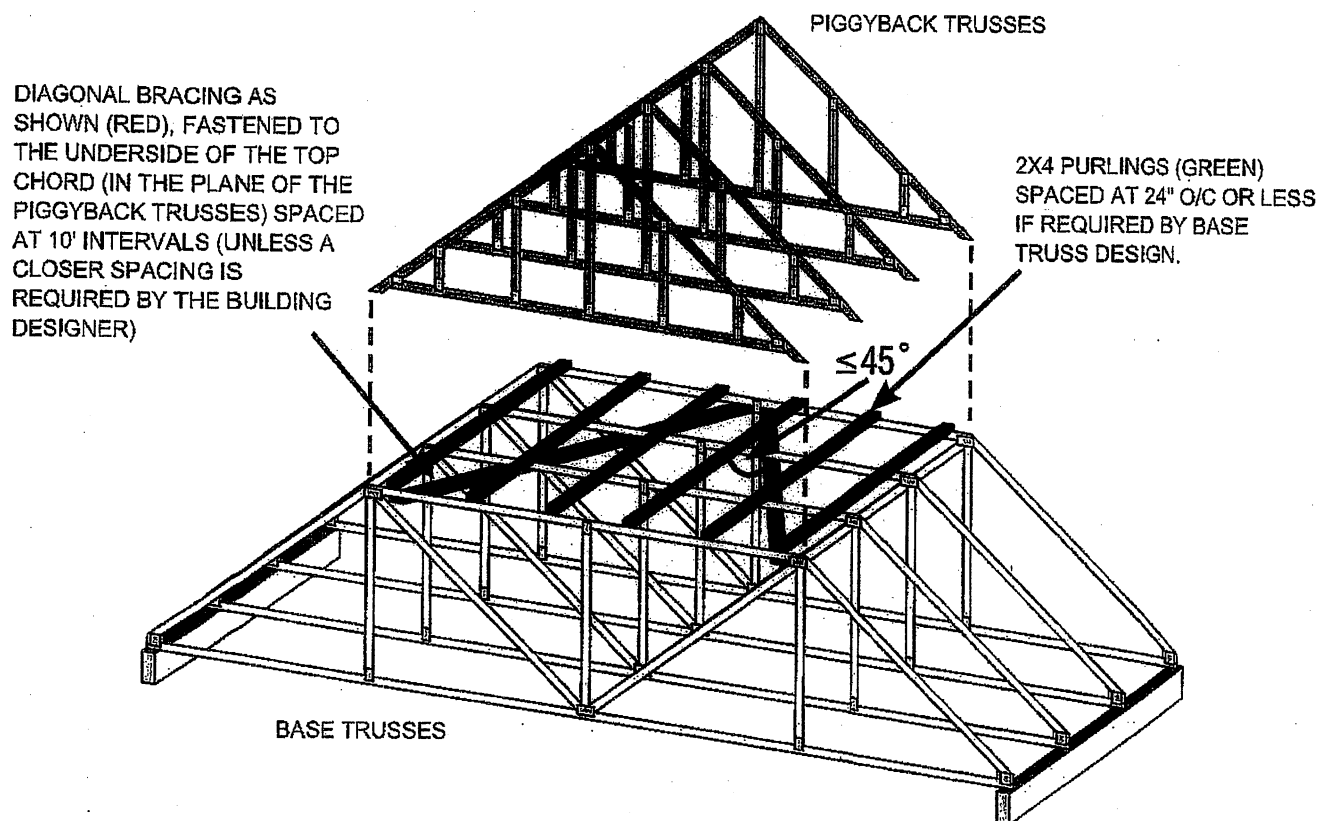
(800) 999-5099
strongtie.com

Overview:

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

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

Detail:



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

SKETCH FROM BCSI-CANADA 2013

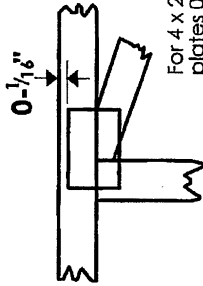
Disclaimer:

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

Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths 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

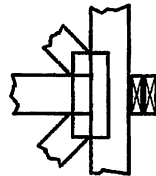
4 x 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



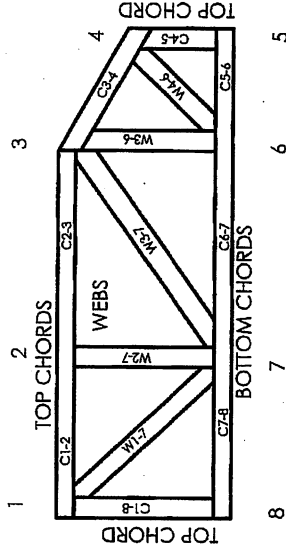
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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.