

JANUARY 18, 2019
THE FOLLOWING DRAWING NUMBERS REPRESENT THE IDENTIFIERS OF THE SEALED DRAWINGS OF THE TRUSS COMPONENTS IDENTIFIED ON THIS LAYOUT:
(LAYOUT:41239/300784)
DWG #T1901090 THROUGH DWG #T1901092, INCLUSIVE, AND ALL DATED 1-15-19;
DWG #T1900060 AND DWG #T1900066 AND BOTH DATED 1-03-19;
DWG #T1900063 AND DWG #T1900064 AND BOTH DATED 1-03-19;
DWG #TAM6305-14 DATED 3-05-14 (CONVENTIONAL FRAMED VALLEY STANDARD)
(STRUCTURAL COMPONENTS ONLY)

JANUARY 18, 2019
THE FOLLOWING DRAWING NUMBERS REPRESENT THE IDENTIFIERS OF THE SEALED DRAWINGS OF THE TRUSS COMPONENTS IDENTIFIED ON THIS LAYOUT:
(LAYOUT:41239/300799)
DWG #T1900044 THROUGH DWG #T1900046, INCLUSIVE, AND ALL DATED 1-03-19;
DWG #T1900114; DWG #T1900123; DWG #T1900127; AND ALL DATED 1-03-19;
DWG #T1900116; DWG #T1900117; DWG #T1900035; AND ALL DATED 1-03-19;
DWG #T1900062; DWG #T1900119; DWG #T1900120; AND ALL DATED 1-03-19;
DWG #T1900039; DWG #T1900040; DWG #T1900042; AND ALL DATED 1-03-19;
DWG #T1901093 AND DWG #T1901094 AND BOTH DATED 1-15-19;
DWG #T1900150 DATED 1-03-19;
DWG #TAM6305-14 DATED 3-05-14 (CONVENTIONAL FRAMED VALLEY STANDARD)
(STRUCTURAL COMPONENTS ONLY)

ASPHALT SHINGLES
12" FINISH O.H.
R.T.M.C.
2x6 EXTERIOR WALLS
2X6 FASCIA BOARD

HARDWARE:

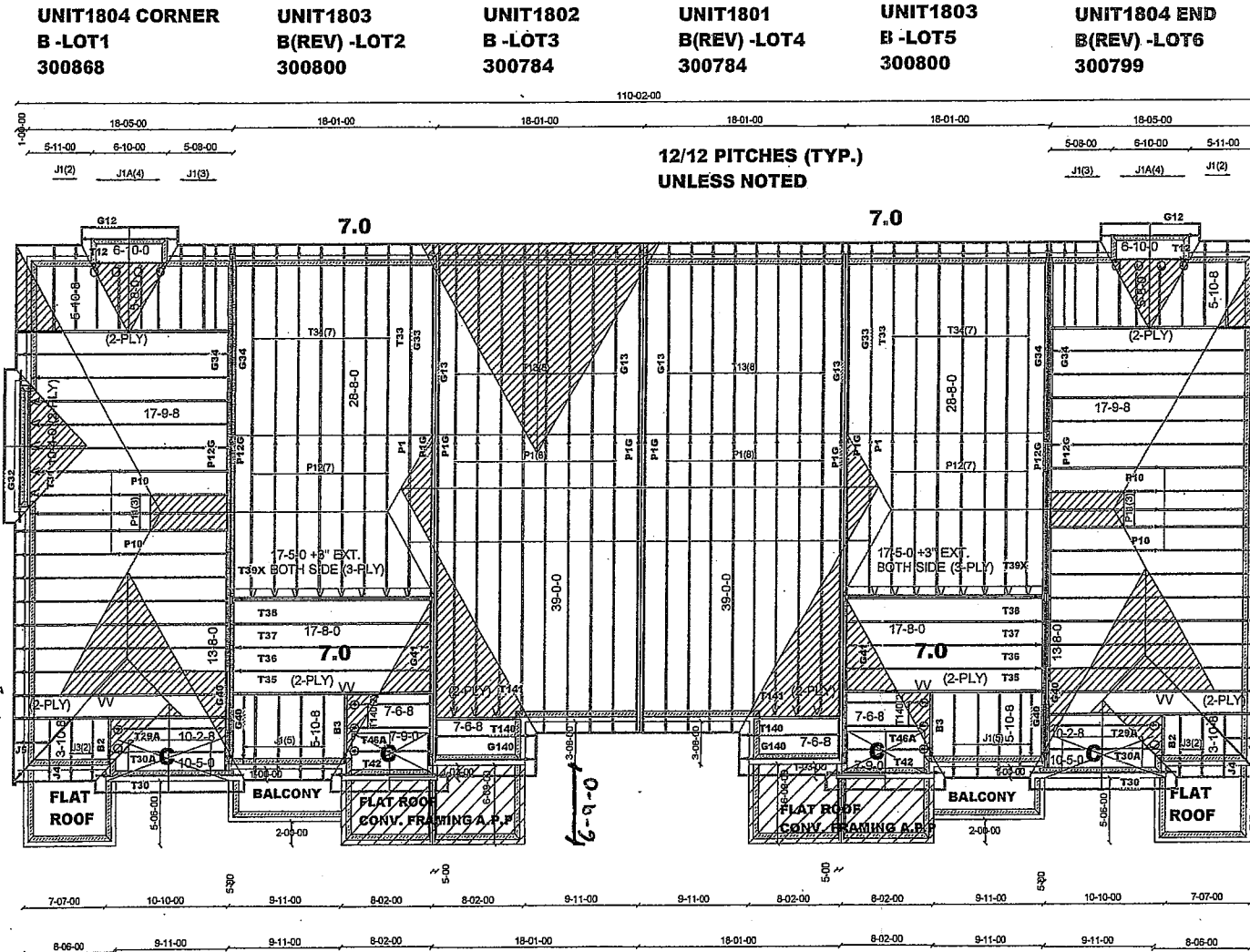
LUS26-2 -(VV)
LUS24 -(O)
LJS26DS -(V)

DENOTE:

C- 8/12 CATH. CEILING

T-180485

DENOTES:
CONVENTIONAL
FRAMING



DATE: 1-18-19
BCIN:28064; FIRM:BCIN #29981
ENGINEERING ONLY-DIMENSIONS TO BE VERIFIED ON SITE

SUPPORTING STRUCTURE TO BE REVIEWED AND VERIFIED BY QUALIFIED BUILDING DESIGNER
ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO TRUSS
INSTALLATION. ALL NOTES DESIGNATING PER PLAN WORK DO NOT REPRESENT A PART OF THE SCOPE OF THIS SEAL. THIS
WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT.
ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY THE BUILDING DESIGNER
AND/OR
PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNERS PRIOR TO FABRICATION TO ENSURE
ADEQUATE LOAD
CAPACITY WITH RESPECT TO THE ROOF TRUSS COMPONENTS REVIEWED IN THIS SUBMISSION. LOT SPECIFIC SCHEDULE 1 REQUIRED FOR
EACH
INDIVIDUAL LOT.

DWG #TAM... THROUGH DWG #TAM... INCLUSIVE, DATED;
(STRUCTURAL COMPONENTS ONLY); THIS LAYOUT MUST BE READ TOGETHER WITH REFERENCED TRUSS COMPONENT DRAWINGS AND
SEALED HARDWARE DRAWINGS.

HANGERS AND HARDWARE SPECIFIED ON THIS LAYOUT ONLY.
REFER TO ATTACHED SEALED REFERENCED DRAWINGS FOR ADDITIONAL BRACING REQUIREMENTS:
(IF BRACING IS SHOWN TO BE REQUIRED PROVIDE THE FOLLOWING BRACING):

PROVIDE 1 ROW OF 2 X 4 #2 SPF CONTINUOUS LATERAL BRACES ALONG WEB MEMBERS SPECIFIED ON REFERENCED SEALED TRUSS
COMPONENT
DRAWINGS USING 2 - 3-1/4" COMMON WIRE NAILS PER WEB MEMBER. THEN PROVIDE 2 X 4 #2 SPF 'X-BRACING' ALONG THESE SAME WEB
MEMBERS
AT LOCATIONS INDICATED (*) USING THE SAME NAILING. PROVIDE BLOCKING IF REQUIRED (DO NOT ARCH BRACING).
PROVIDE 2 X 4 #2 SPF T-BRACE ALONG FULL LENGTH OF LATERALLY BRACED WEB MEMBERS OF 1 PLY TRUSSES COMPONENTS
REQUIRING 'T-BRACE'
USING 1 ROW OF 3-1/4" COMMON WIRE NAILS AT 6" O/C. SIMILARLY PROVIDE 2 X 6 BRACE WITH 2 ROWS OF NAILING FOR 2 PLY TRUSS
COMPONENTS AND 2 X 8 BRACE WITH 3 ROWS OF NAILING FOR 3 PLY TRUSS COMPONENTS.

(1) 2 X 6 #2 SPF ON FLAT OVER PLYWOOD SHEATHING.
(2) 2 X 6 #2 SPF RIDGE BEAM SUPPORTED AT EACH END OVER BASE TRUSS COMPONENTS AND AT LOCATIONS MARKED BY 'X'.
(3) 2 X 6 #2 SPF ROOF RAFTERS AT 24" O/C WITH MAXIMUM SUPPORT SPAN 6'-0" (ADD 2 X 4 VERTICAL SUPPORTS TO
TRUSS BASE BELOW WHERE NECESSARY).

ALL CONVENTIONAL FRAMING TO BE DISTRIBUTED UNIFORMLY ALONG BASE TRUSS
COMPONENTS. PROVIDE 2 X 4 KNEE-WALLS WHERE NECESSARY WITH STUDS AT
24" O/C.
ALL CONVENTIONAL FRAMING TO CONFORM TO ONTARIO BUILDING CODE 2012.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN
WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION
3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED
AND THE FIRM IS REGISTERED, IN THE APPROPRIATE CLASSES
AND/OR CATEGORIES.
REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.
DWG #TAM
BCIN: 28064
FIRM: 29981
SEALED STRUCTURAL
COMPONENTS ONLY

ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PARTS OF THE OBC LATEST EDITION
ROOF RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"x4"SPF@24"o.c.
WITH A 2"x4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT.
POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE
BETWEEN END POINTS AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

DESIGN LOADS:

SNOW LOAD 23.3 PSF
TO DEAD 15 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF

JANUARY 18, 2019
THE FOLLOWING DRAWING NUMBERS REPRESENT THE IDENTIFIERS OF THE SEALED DRAWINGS OF THE TRUSS COMPONENTS IDENTIFIED ON THIS LAYOUT:
(LAYOUT:41239/300868)
DWG #T1900044 THROUGH DWG #T1900046, INCLUSIVE, AND ALL DATED 1-03-19;
DWG #T1900035; DWG #T1900039; DWG #T1900040; AND ALL DATED 1-03-19;
DWG #T1900042; DWG #T1900062; DWG #T1900114; AND ALL DATED 1-03-19;
DWG #T1900116; DWG #T1900117; DWG #T1900123; AND ALL DATED 1-03-19;
DWG #T1900119; DWG #T1900120; DWG #T1900127; AND ALL DATED 1-03-19;
DWG #T1901093; DWG #T1901094; DWG #T1901098; AND ALL DATED 1-03-19;
DWG #T1900150 AND DWG #T1900151 AND BOTH DATED 1-03-19;
DWG #TAM6305-14 DATED 3-05-14 (CONVENTIONAL FRAMED VALLEY STANDARD)
(STRUCTURAL COMPONENTS ONLY)

JANUARY 18, 2019
THE FOLLOWING DRAWING NUMBERS REPRESENT THE IDENTIFIERS OF THE SEALED DRAWINGS OF THE TRUSS COMPONENTS IDENTIFIED ON THIS LAYOUT:
(LAYOUT:41239/300800)
DWG #T1900126 THROUGH DWG #T1900136, INCLUSIVE, AND ALL DATED 1-03-19;
DWG #T1900114; DWG #T1900123; DWG #T1900124; AND ALL DATED 1-03-19;
DWG #T1900063; DWG #T1900064; DWG #T1900121; AND ALL DATED 1-03-19;
DWG #T1901091 DATED 1-15-19;
DWG #TAM6305-14 DATED 3-05-14 (CONVENTIONAL FRAMED VALLEY STANDARD)
(STRUCTURAL COMPONENTS ONLY)



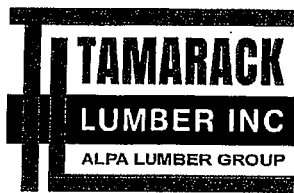
Job Track: 41239
Layout ID: 300867
Plan Log: 98887

Builder / Location:
ROYAL PINE HOMES/ BRAMPTON
Project: **FORESTSIDE PH.6**
Date: 11/16/2018 Designer: SUNNY

Model / Elevation:
BLOCK5 / LOTS 1TO6

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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

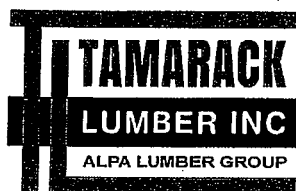
DATE	09/14/18
SALES REP	Mario

JOB TRACK:41239 LAYOUT ID: 300868 LOCATION:
 BUILDER: ROYAL PINE - FORESTSIDE/BRAMPT SUB-BUILDER:
 MODEL: UNIT1804 CORNER ELEVATION: B LOT1

ROOF TRUSSES

ROOF TRUSS SPACING:24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TG BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	1	G34 GABLE	7.00 0.00	28-08-00	10-00-00	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 09-07-03	171.71 109.00		
	1	G40 GABLE	7.00 0.00	13-08-00	09-03-02	2 X 4	2 X 4	00-00-00 00-00-00	01-03-07 09-03-02	68.36 43.83		
	1 2 Ply	T2 HALF HIP	12.00 0.00	17-09-08	04-08-09	2 X 4	2 X 6	01-03-08 00-00-00	01-10-08 04-08-09	199.00 121.34		
	2	T3 HALF HIP	12.00 0.00	17-09-08	05-10-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 05-10-09	156.36 98.00		
	2	T4 HALF HIP	12.00 0.00	17-09-08	07-00-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 07-00-09	166.94 104.66		
	2	T5 HALF HIP	12.00 0.00	17-09-08	08-02-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 08-02-09	185.34 117.34		
	7	T6 HALF HIP	12.00 0.00	17-09-08	09-04-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 09-04-09	737.94 462.00		
	2	T7 HALF HIP	12.00 0.00	17-09-08	10-06-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 10-06-09	208.64 127.66		
	1 2 Ply	T26A HIP GIRDER	12.00 0.00	17-09-08	05-09-00	2 X 4	2 X 6	01-03-08 00-00-00	01-10-08 02-01-00	205.94 124.00		
	1	T27A HIP	12.00 0.00	17-09-08	07-09-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 02-01-00	80.84 51.67		
	1	T29A COMMON	12.00 0.00	10-02-08	07-01-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 02-01-00	47.71 31.00		
	1	T30 ROOF	12.00 8.00	10-05-00	07-01-00	2 X 4	2 X 4	01-03-08 01-03-08	01-10-08 01-10-08	55.38 36.33		
	1	T30A ROOF	12.00 8.00	10-02-08	07-01-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 02-01-00	53.04 35.00		
	1 2 Ply	T31 COMMON	12.00 0.00	10-04-00	07-00-08	2 X 4	2 X 6	00-00-00 00-00-00	01-10-08 01-10-08	118.10 76.00		
	1	G32 COMMON	12.00 0.00	10-04-00	07-00-08	2 X 4	2 X 4	01-03-08 01-03-08	01-10-08 01-10-08	55.75 36.83		
	1	T12 COMMON	12.00 0.00	06-10-00	04-10-08	2 X 4	2 X 4	00-10-08 00-10-08	01-05-08 01-05-08	33.29 23.17		
	1	G12 GABLE	12.00 0.00	06-10-00	04-10-08	2 X 4	2 X 4	00-10-08 00-10-08	01-05-08 01-05-08	34.17 24.17		
	2	P10 PIGGYBACK	12.00 0.00	09-08-12	02-02-08	2 X 4	2 X 4	00-00-00 00-00-00	00-05-03 02-02-08	67.46 44.00		



Delivery Shiplist

DATE	09/14/18
SALES REP	Mario

JOB TRACK: 41239	LAYOUT ID: 300868	LOCATION:
BUILDER: ROYAL PINE - FORESTSIDE/BRAMPT	SUB-BUILDER:	
MODEL: UNIT1804 CORNER	ELEVATION: B LOT1	

ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	3	P11 PIGGYBACK	12.00 0.00	09-08-12	03-04-08	2 X 4	2 X 4	00-00-00 00-00-00	00-05-03 03-04-08	110.34 69.51		
	1	P12G GABLE	7.00 0.00	11-04-10	03-08-02	2 X 4	2 X 4	00-00-00 00-00-00	00-00-00 00-00-00	35.84 22.67		
	5	J1 JACK-OPEN	7.00 0.00	05-10-08	04-08-09	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 04-08-09	86.50 53.35		
	4	J1A JACK-OPEN	7.00 0.00	05-08-00	04-08-09	2 X 4	2 X 4	00-00-00 00-00-00	01-04-14 04-08-09	60.88 37.32		
	2	J3 JACK-OPEN	12.00 0.00	03-10-08	05-09-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 05-09-00	29.50 18.66		
	1	J4 JACK-OPEN	12.00 0.00	01-09-07	03-07-15	2 X 4	2 X 4	01-03-08 02-01-01	01-10-08 00-03-08	11.39 7.33		
	1	J5 JACK-OPEN	12.00 0.00	01-09-07	03-07-15	2 X 4	2 X 4	01-03-08 00-01-01	01-10-08 00-03-08	9.10 6.00		

TOTAL # TRUSS= 49.00

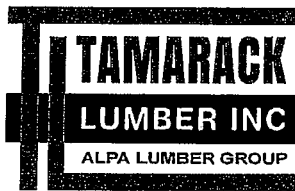
TOTAL BFT OF ALL TRUSSES=

1880.84 BFT. TOTAL WEIGHT OF ALL TRUSSES= 2989.52 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
1	Hangers	LUS26-2	
5	Hangers	LJS26DS	
6	Hangers	LUS24	

TOTAL # ITEMS= 12.00



Delivery Shiplist

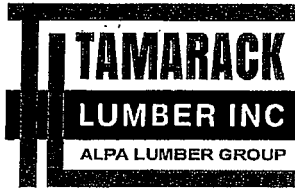
DATE	09/14/18
SALES REP	Mario

JOB TRACK: 41239	LAYOUT ID: 300800	LOCATION:
BUILDER: ROYAL PINE - FORESTSIDE/BRAMPT	SUB-BUILDER:	
MODEL: UNIT1803	ELEVATION: B LOT2 OR LOT5	

ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	1	T33 PIGGYBACK	7.00 0.00	28-08-00	10-00-00	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 07-03-12	150.22 94.33		
	1	G33 GABLE	7.00 0.00	28-08-00	10-00-00	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 07-03-12	167.03 106.17		
	7	T34 PIGGYBACK	7.00 0.00	28-08-00	10-00-00	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 09-07-03	1055.25 659.19		
	1	G34 GABLE	7.00 0.00	28-08-00	10-00-00	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 09-07-03	171.71 109.00		
	1 2 Ply	T35 FLAT GIRDER	0.00 0.00	17-08-00	04-08-09	2 X 6	2 X 6	00-00-00 00-00-00	04-08-09 04-08-09	220.58 134.68		
	1	T36 FLAT	0.00 0.00	17-08-00	05-10-09	2 X 4	2 X 4	00-00-00 00-00-00	05-10-09 05-10-09	79.76 50.00		
	1	T37 FLAT	0.00 0.00	17-08-00	07-00-09	2 X 4	2 X 4	00-00-00 00-00-00	07-00-09 07-00-09	86.38 53.83		
	1	T38 FLAT	0.00 0.00	17-08-00	08-02-09	2 X 4	2 X 4	00-00-00 00-00-00	08-02-09 08-02-09	93.18 57.67		
	1 3 Ply	T39X FLAT GIRDER	0.00 0.00	17-05-00	09-04-09	2 X 6	2 X 6	00-00-00 00-00-00	00-05-08 00-05-08	498.06 311.01		
	1	T42 SCISSOR	12.00 8.00	07-09-00	05-09-00	2 X 4	2 X 4	01-03-08 01-03-08	01-10-08 01-10-08	41.86 26.83		
	1	T46A SCISSOR	12.00 8.00	07-06-08	09-05-00	2 X 4	2 X 4	00-00-00 00-00-00	01-10-08 09-05-00	46.44 29.50		
	2	T140 MONOPITCH	12.00 0.00	07-06-08	09-05-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 09-05-00	93.70 59.66		
	1	G40 GABLE	7.00 0.00	13-08-00	09-03-02	2 X 4	2 X 4	00-00-00 00-00-00	01-03-07 09-03-02	68.36 43.83		
	1	G41 GABLE	0.00 0.00	13-08-00	09-05-04	2 X 4	2 X 4	00-00-00 00-00-00	09-05-04 09-05-04	94.63 57.67		
	1	P1 PIGGYBACK	7.00 0.00	07-05-10	02-06-07	2 X 4	2 X 4	00-00-00 00-00-00	00-04-05 00-04-05	22.11 14.33		
	1	P1G GABLE	7.00 0.00	07-05-10	02-06-07	2 X 4	2 X 4	00-00-00 00-00-00	00-00-00 00-00-00	23.42 15.33		
	7	P12 PIGGYBACK	7.00 0.00	11-04-10	03-08-02	2 X 4	2 X 4	00-00-00 00-00-00	00-04-05 00-04-05	228.76 144.69		
	1	P12G GABLE	7.00 0.00	11-04-10	03-08-02	2 X 4	2 X 4	00-00-00 00-00-00	00-00-00 00-00-00	35.84 22.67		



Delivery Shiplist

DATE	09/14/18
SALES REP	Mario

JOB TRACK:41239	LAYOUT ID: 300800	LOCATION:
BUILDER: ROYAL PINE - FORESTSIDE/BRAMPT	SUB-BUILDER:	
MODEL: UNIT1803	ELEVATION: B LOT2 OR LOT5	

ROOF TRUSSES

ROOF TRUSS SPACING:24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	5	J1 JACK-OPEN	7.00 0.00	05-10-08	04-08-09	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 04-08-09	86.50 53.35		

TOTAL # TRUSS= 39.00

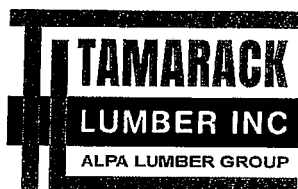
TOTAL BFT OF ALL TRUSSES=

2043.74 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3263.79 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
1	Hangers	LUS26-2	
3	Hangers	LUS24	
8	Hangers	LJS26DS	

TOTAL # ITEMS= 12.00



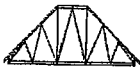
Delivery Shiplist

DATE	09/14/18
SALES REP	Mario

JOB TRACK: 41239 LAYOUT ID: 300784 LOCATION:
 BUILDER: ROYAL PINE - FORESTSIDE/BRAMPT SUB-BUILDER:
 MODEL: UNIT1801 OR UNIT1802 ELEVATION: B LOT3 OR LOT4

ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	8	T13 PIGGYBACK	7.00 0.00	39-00-00	10-00-00	2 X 4	2 X 6	01-03-08 01-03-08	01-03-07 01-03-07	1640.08 1016.00		
	2	G13 GABLE	7.00 0.00	39-00-00	10-00-00	2 X 4	2 X 6	01-03-08 01-03-08	01-03-07 01-03-07	453.88 284.66		
	1	T140 MONOPITCH	12.00 0.00	07-06-08	09-05-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 09-05-00	46.85 29.83		
	1	G140 GABLE	12.00 0.00	07-06-08	09-05-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 09-05-00	48.08 29.83		
	1 2 Ply	T141 MONOPITCH	12.00 0.00	07-06-08	09-05-00	2 X 4	2 X 6	00-00-00 00-00-00	01-10-08 09-05-00	109.56 66.66		
	8	P1 PIGGYBACK	7.00 0.00	07-05-10	02-06-07	2 X 4	2 X 4	00-00-00 00-00-00	00-04-05 00-04-05	176.88 114.64		
	2	P1G GABLE	7.00 0.00	07-05-10	02-06-07	2 X 4	2 X 4	00-00-00 00-00-00	00-00-00 00-00-00	46.84 30.66		

TOTAL # TRUSS= 24.00

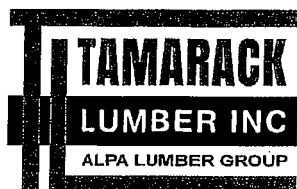
TOTAL BFT OF ALL TRUSSES=

1572.28 BFT. TOTAL WEIGHT OF ALL TRUSSES= 2522.17 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
3	Hangers	LJS26DS	

TOTAL # ITEMS= 3.00



Delivery Shiplist

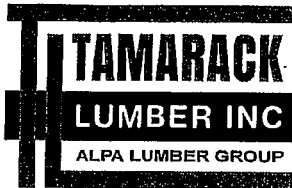
DATE	09/14/18
SALES REP	Mario

JOB TRACK:41239 LAYOUT ID: 300799 LOCATION:
 BUILDER: ROYAL PINE - FORESTSIDE/BRAMPT SUB-BUILDER:
 MODEL: UNIT1804 END ELEVATION: B LOT6

ROOF TRUSSES

ROOF TRUSS SPACING:24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	1	G40 GABLE	7.00 0.00	13-08-00	09-03-02	2 X 4	2 X 4	00-00-00 00-00-00	01-03-07 09-03-02	68.36 43.83		
	1	G34 GABLE	7.00 0.00	28-08-00	10-00-00	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 09-07-03	171.71 109.00		
	1 2 Ply	T2 HALF HIP	12.00 0.00	17-09-08	04-08-09	2 X 4	2 X 6	01-03-08 00-00-00	01-10-08 04-08-09	199.00 121.34		
	2	T3 HALF HIP	12.00 0.00	17-09-08	05-10-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 05-10-09	156.36 98.00		
	2	T4 HALF HIP	12.00 0.00	17-09-08	07-00-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 07-00-09	166.94 104.66		
	2	T5 HALF HIP	12.00 0.00	17-09-08	08-02-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 08-02-09	185.34 117.34		
	7	T6 HALF HIP	12.00 0.00	17-09-08	09-04-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 09-04-09	737.94 462.00		
	2	T7 HALF HIP	12.00 0.00	17-09-08	10-06-09	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 10-06-09	208.64 127.66		
	1 2 Ply	T26A HIP GIRDER	12.00 0.00	17-09-08	05-09-00	2 X 4	2 X 6	01-03-08 00-00-00	01-10-08 02-01-00	205.94 124.00		
	1	T27A HIP	12.00 0.00	17-09-08	07-09-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 02-01-00	80.84 51.67		
	1	T29A COMMON	12.00 0.00	10-02-08	07-01-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 02-01-00	47.71 31.00		
	1	T30 ROOF	12.00 8.00	10-05-00	07-01-00	2 X 4	2 X 4	01-03-08 01-03-08	01-10-08 01-10-08	55.38 36.33		
	1	T30A ROOF	12.00 8.00	10-02-08	07-01-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 02-01-00	53.04 35.00		
	1	T12 COMMON	12.00 0.00	06-10-00	04-10-08	2 X 4	2 X 4	00-10-08 00-10-08	01-05-08 01-05-08	33.29 23.17		
	1	G12 GABLE	12.00 0.00	06-10-00	04-10-08	2 X 4	2 X 4	00-10-08 00-10-08	01-05-08 01-05-08	34.17 24.17		
	2	P10 PIGGYBACK	12.00 0.00	09-08-12	02-02-08	2 X 4	2 X 4	00-00-00 00-00-00	00-05-03 02-02-08	67.46 44.00		
	3	P11 PIGGYBACK	12.00 0.00	09-08-12	03-04-08	2 X 4	2 X 4	00-00-00 00-00-00	00-05-03 03-04-08	110.34 69.51		
	1	P12G PIGGYBACK	7.00 0.00	11-04-10	03-08-02	2 X 4	2 X 4	00-00-00 00-00-00	00-00-00 00-00-00	35.84 22.67		



Delivery Shiplist

DATE	09/14/18
SALES REP	Mario

JOB TRACK: 41239	LAYOUT ID: 300799	LOCATION:
BUILDER: ROYAL PINE - FORESTSIDE/BRAMPT	SUB-BUILDER:	
MODEL: UNIT1804 END	ELEVATION: B LOT6	

ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	5	J1 JACK-OPEN	7.00 0.00	05-10-08	04-08-09	2 X 4	2 X 4	01-03-08 00-00-00	01-03-07 00-04-15	86.50 53.35		
	4	J1A JACK-OPEN	7.00 0.00	05-08-00	04-08-09	2 X 4	2 X 4	00-00-00 00-00-00	01-04-14 04-08-09	60.88 37.32		
	2	J3 JACK-OPEN	12.00 0.00	03-10-08	05-09-00	2 X 4	2 X 4	01-03-08 00-00-00	01-10-08 05-09-00	29.50 18.66		
	1	J4 JACK-OPEN	12.00 0.00	01-09-07	03-07-15	2 X 4	2 X 4	01-03-08 02-01-01	01-10-08 00-03-08	11.39 7.33		
	1	J5 JACK-OPEN	12.00 0.00	01-09-07	03-07-15	2 X 4	2 X 4	01-03-08 00-01-01	01-10-08 00-03-08	9.10 6.00		

TOTAL # TRUSS= 46.00

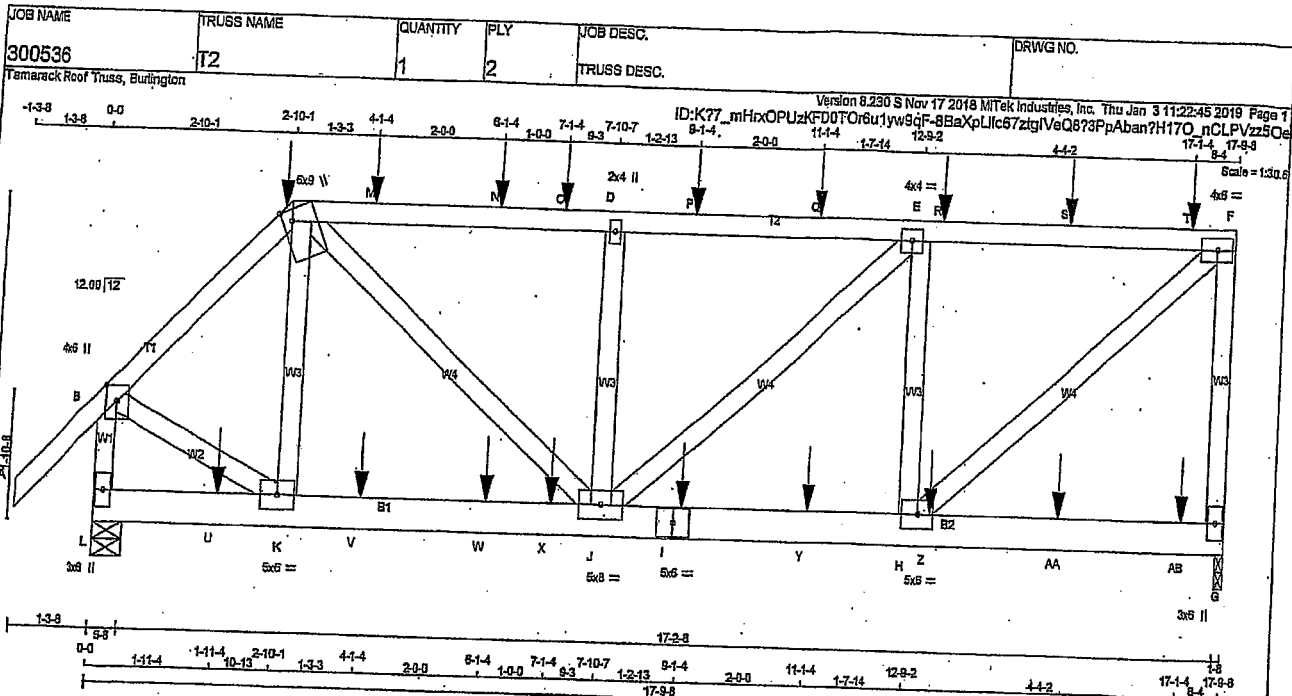
TOTAL BFT OF ALL TRUSSES=

1768.01 BFT. TOTAL WEIGHT OF ALL TRUSSES= 2815.67 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
1	Hangers	LUS26-2	
6	Hangers	LUS24	

TOTAL # ITEMS= 7.00



CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
G - I	2x4	DRY No.2	SPF
L - B	2x4	DRY No.2	SPF
L - I	2x8	DRY No.2	SPF
I - G	2x8	DRY No.2	SPF

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-C	12	SIDE(61.0)
C-F	12	SIDE(61.0)
F-G	12	TOP
L-B	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
L-I	12	SIDE(0.0)
I-G	12	SIDE(183.1)
WEBS: (0.122"x3") SPIRAL NAILS		
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV+p	MT20	4.0	6.0	2.75	2.00
C	TTWV+m	MT20	6.0	9.0	Edge	1.75
D	TMWV+w	MT20	2.0	4.0		
E	TMWV+u	MT20	4.0	4.0		
F	TMWV+u	MT20	4.0	6.0		
G	BMV1+p	MT20	3.0	6.0		
H	BMWV+u	MT20	5.0	6.0		
I	BS+u	MT20	5.0	6.0		
J	BMWV+u	MT20	5.0	6.0		
K	BMWV+u	MT20	5.0	6.0		
L	BMV1+p	MT20	6.0	6.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	DOWN	UPLIFT	IN-SX
G	2244	0	0	1-8
L	2221	0	0	5-8

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	1701	850/0	379/0	0/0	0/0	472/0	0/0
L	1676	862/0	355/0	0/0	0/0	459/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.35 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	FACTORED HORZ. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					MEMB.		
A-B	0/42	-84.9	-84.9 0.07 (1)	10.00	K-C	-274/105	0.03 (1)
B-C	-1854/0	-84.9	-84.9 0.08 (1)	8.25	C-J	0/1481	0.13 (1)
C-M	-2381/0	-84.9	-84.9 0.37 (1)	5.35	J-D	0/1481	0.13 (1)
M-N	-2381/0	-84.9	-84.9 0.37 (1)	5.35	J-E	0/1481	0.13 (1)
N-O	-2381/0	-84.9	-84.9 0.37 (1)	5.35	E-F	0/1481	0.13 (1)
O-D	-2381/0	-84.9	-84.9 0.37 (1)	5.35	F-G	0/1481	0.13 (1)
P-Q	-2381/0	-84.9	-84.9 0.37 (1)	5.35	G-H	0/1481	0.13 (1)
Q-E	-2381/0	-84.9	-84.9 0.37 (1)	5.35	H-I	0/1481	0.13 (1)
E-R	-1958/0	-84.9	-84.9 0.32 (1)	5.35	I-J	0/1481	0.13 (1)
R-S	-1958/0	-84.9	-84.9 0.32 (1)	5.35	J-K	0/1481	0.13 (1)
S-T	-1958/0	-84.9	-84.9 0.32 (1)	5.35	K-L	0/1481	0.13 (1)
T-F	-1958/0	-84.9	-84.9 0.32 (1)	5.35	L-M	0/1481	0.13 (1)
G-F	-2065/0	0.0	0.0 0.35 (1)	7.53	M-N	0/1481	0.13 (1)
L-B	-2185/0	0.0	0.0 0.13 (1)	7.53	N-O	0/1481	0.13 (1)
L-U	0/0	-38.5	-38.5 0.07 (3)	10.00	O-P	0/1481	0.13 (1)
U-K	0/0	-38.5	-38.5 0.07 (3)	10.00	P-Q	0/1481	0.13 (1)
K-V	0/1294	-38.5	-38.5 0.14 (2)	10.00	Q-R	0/1481	0.13 (1)
V-W	0/1294	-38.5	-38.5 0.14 (2)	10.00	R-S	0/1481	0.13 (1)
W-X	0/1294	-38.5	-38.5 0.14 (2)	10.00	S-T	0/1481	0.13 (1)
X-J	0/1294	-38.5	-38.5 0.14 (2)	10.00	T-U	0/1481	0.13 (1)
J-I	0/1958	-38.5	-38.5 0.19 (2)	10.00	U-V	0/1481	0.13 (1)
I-Y	0/1958	-38.5	-38.5 0.19 (2)	10.00	V-W	0/1481	0.13 (1)
Y-H	0/1958	-38.5	-38.5 0.19 (2)	10.00	W-X	0/1481	0.13 (1)
H-Z	0/0	-38.5	-38.5 0.08 (3)	10.00	X-J	0/1481	0.13 (1)
Z-AA	0/0	-38.5	-38.5 0.08 (3)	10.00	J-I	0/1958	0.19 (2)
AA-AB	0/0	-38.5	-38.5 0.08 (3)	10.00	I-Y	0/1958	0.19 (2)
AB-G	0/0	-38.5	-38.5 0.08 (3)	10.00	Y-H	0/1958	0.19 (2)

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-10-1	-35	-39		FRONT	VERT	DEAD		
C	2-10-1	-162	-162		FRONT	VERT	SNOW		
I	9-1-4	-71	-90		BACK	VERT	TOTAL		
M	4-1-4	-164	-164		BACK	VERT	TOTAL		
N	6-1-4	-155	-155		BACK	VERT	TOTAL		
O	7-1-4	-155	-155		BACK	VERT	TOTAL		
P	9-1-4	-155	-155		BACK	VERT	TOTAL		
Q	11-1-4	-155	-155		BACK	VERT	TOTAL		

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	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	46.8	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.00/12

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012
- CSA 059-09, CSA 059-14
- TPIC 2011, 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 (0.59")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.59")
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CS: TC=0.37/1.00 (C-D-1), BC=0.19/1.00 (H-I-2), WB=0.23/1.00 (F-H-1), SS=0.25/1.00 (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 618 354 1657 788 1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

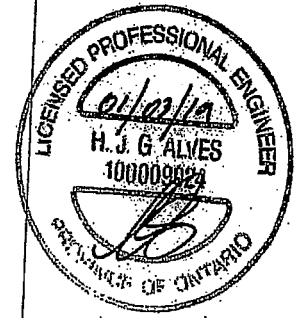
JSI GRIP= 0.77 (B) (INPUT = 0.90)
JSI METAL= 0.36 (B) (INPUT = 1.00)

CONTINUED ON PAGE 2

JOB NAME 300536 Tamarack Roof Truss, Burlington	TRUSS NAME T2	QUANTITY 1	PLY 2	JOB DESC. TRUSS DESC.	DRWG NO.
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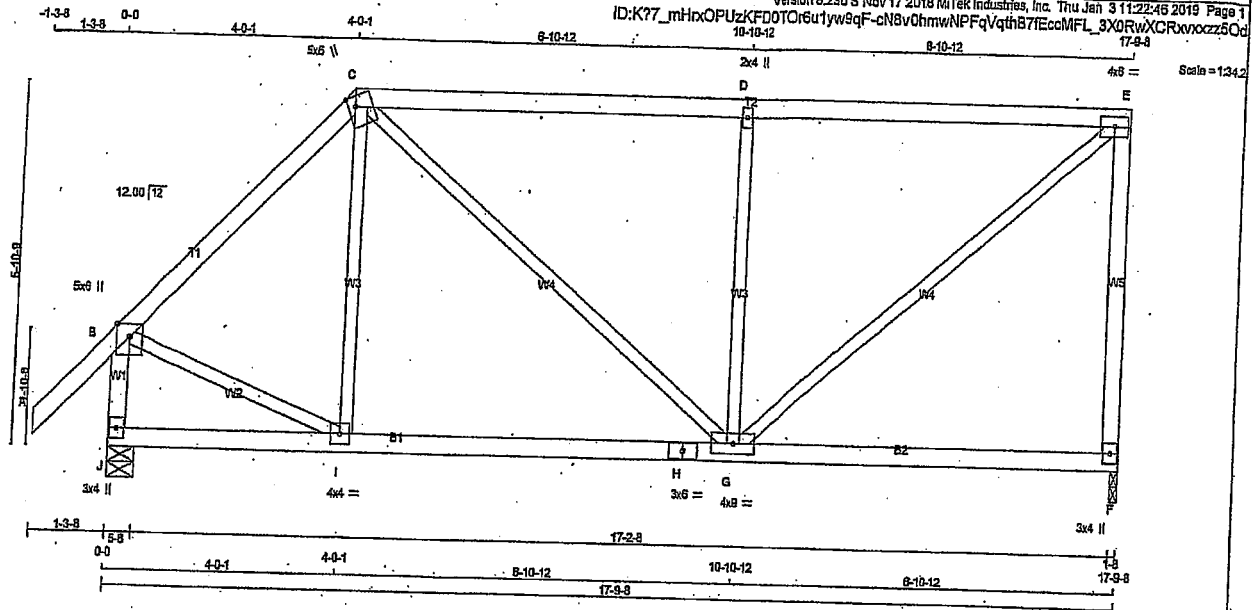
Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Jan 3 11:22:45 2019 Page 2
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FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	MAX*	FACE	DIR.	TYPE	HEEL	CONN.
R	13-1-4	-164	-164	—	BACK	VERT	TOTAL	—	—
S	15-1-4	-164	-164	—	BACK	VERT	TOTAL	—	—
T	17-1-4	-178	-178	—	BACK	VERT	TOTAL	—	—
U	1-1-4	-75	-95	—	BACK	VERT	TOTAL	—	—
V	4-1-4	-75	-95	—	BACK	VERT	TOTAL	—	—
W	6-1-4	-71	-90	—	BACK	VERT	TOTAL	—	—
X	7-1-4	-71	-90	—	BACK	VERT	TOTAL	—	—
Y	11-1-4	-71	-90	—	BACK	VERT	TOTAL	—	—
Z	13-1-4	-75	-95	—	BACK	VERT	TOTAL	—	—
AA	15-1-4	-75	-95	—	BACK	VERT	TOTAL	—	—
AB	17-1-4	-81	-103	—	BACK	VERT	TOTAL	—	—



DWG NO. TAM **T1900039**
 STRUCTURAL
 COMPONENT ONLY **2/2**

JOB NAME 300536	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Jan 3 11:22:46 2019 Page 1					
ID:K77_mHxOPuzKFD0TOr6u1yw9qF-cN8v0hmwNPFqVqthB7EccMFL_3X0RwXCRvwozz5Qd					



TOTAL WEIGHT = 78 lb

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWVp	MT20	5.0	6.0	Edge	
C	TMWVp	MT20	5.0	6.0	2.00	1.50
D	TMWVp	MT20	2.0	4.0		
E	TMWVp	MT20	4.0	6.0		
F	BMV1p	MT20	3.0	4.0		
G	BMWVWt	MT20	4.0	9.0		
H	BS4	MT20	3.0	6.0		
I	BMWVWt	MT20	4.0	4.0		
J	BMV1p	MT20	3.0	4.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
F	1097	0	1097	0
J	1216	0	1216	0

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	832	414/0	187/0	0/0	0/0	231/0	0/0
J	914	479/0	187/0	0/0	0/0	248/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0/42	-84.9	-84.9 0.12 (1)	10.00	I-C	-13/154	0.04 (3)
B-C	-800/0	-84.9	-84.9 0.26 (1)	6.16	C-G	0/410	0.09 (1)
C-D	-852/0	-84.9	-84.9 0.75 (1)	5.02	G-D	-723/0	0.39 (1)
D-E	-852/0	-84.9	-84.9 0.75 (1)	5.02	G-E	0/1223	0.23 (1)
E-F	-891/0	0.0	0.0 0.64 (1)	7.81	B-I	0/676	0.15 (1)
J-B	-1162/0	0.0	0.0 0.13 (1)	7.39			
J-I	0/0	-38.5	-38.5 0.19 (3)	10.00			
I-H	0/834	-38.5	-38.5 0.42 (2)	10.00			
H-G	0/834	-38.5	-38.5 0.42 (2)	10.00			
G-F	0/0	-38.5	-38.5 0.38 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
	DL = 6.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 46.8 PSF

SPACING = 24.0 IN/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 27.2 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.59")
CALCULATED VERT. DEFL. (LL) = L/899 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (0.59")
CALCULATED VERT. DEFL. (TL) = L/899 (0.14")

CSI: TC=0.75/1.00 (D-E-1), BC=0.42/1.00 (G-L2),
WB=0.39/1.00 (D-G-1), SS=0.28/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

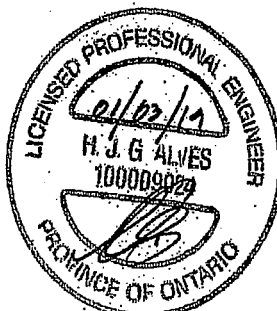
NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PS)	(PL)	(FL)
MAX	MIN	MAX
MT20	618	354
	1667	789
	1667	1666

PLATE PLACEMENT TOL. = 0.250 inches

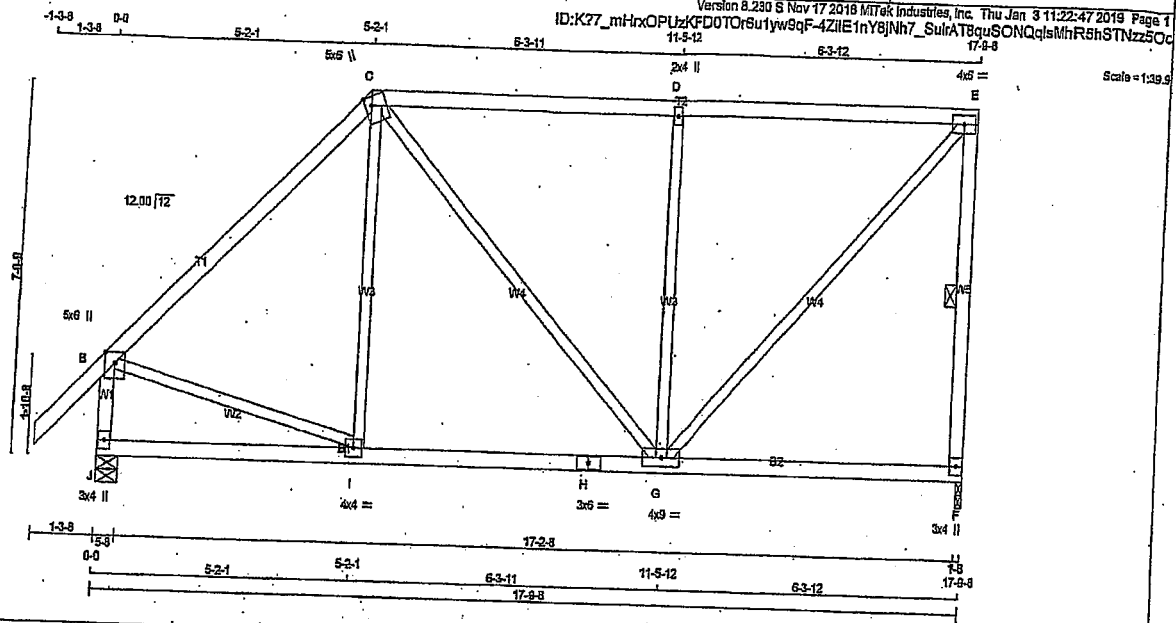
PLATE ROTATION TOL. = 5.0 Deg.

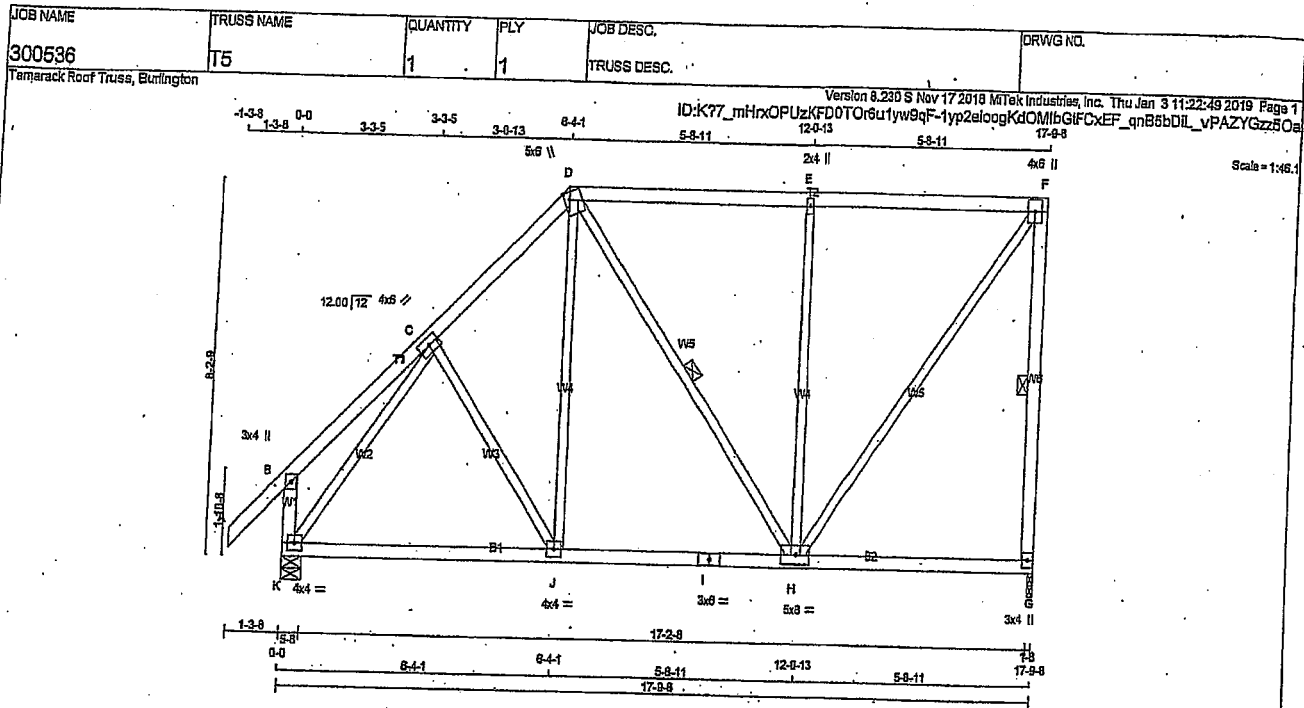
JSI GRIP= 0.79 (I) (INPUT = 0.80)
JSI METAL= 0.44 (I) (INPUT = 1.00)



DRWG NO. TAM 719 00040
STRUCTURAL
COMPONENT ONLY

JOB NAME 300536	TRUSS NAME T4	QUANTITY 1	PLY 1	JOB DESC. Tamarack Roof Truss, Burlington	DRWG NO.
TRUSS DESC.					





TOTAL WEIGHT = 83 lb

LUMBER

N. L. G. A. RULES			
CHORDS	SIZE		
A - D	2x4		DRY
D - F	2x4		DRY
G - F	2x4		DRY
K - B	2x4		DRY
K - I	2x4		DRY
I - G	2x4		DRY

ALL WEBS 2x3 DRY
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	6.0		
D	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMV+w	MT20	2.0	4.0		
F	TMVW+p	MT20	4.0	6.0		
G	BMV1+p	MT20	3.0	4.0		
H	BMVWW-t	MT20	5.0	8.0		
I	BS-t	MT20	3.0	6.0		
J	BMVWW-t	MT20	4.0	4.0		
K	BMVW1-t	MT20	4.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
G	1097	0	1097	0	1-8	1-8
K	1216	0	1216	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
G	832	4147.0	187.0	0.0	0.0	231.0	0.0
K	914	479.0	187.0	0.0	0.0	248.0	0.0

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

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MAX. FACTORED FORCE (LBS)				WEBS				
VERT. LOAD		LC	MAX	MEMB.		MAX. FACTORED FORCE (LBS)	MAX	
FROM TO		(PLF)	CSI (LC)	UNBRACED LENGTH FR-TO			CSI (LC)	
TO								
B	0/142	-84.9	-84.9	0.12 (1)	10.00	C-J	-29/57	0.02 (1)
C	0/21	-84.9	-84.9	0.13 (1)	10.00	J-D	0/322	0.07 (2)
D	-849.0	-84.9	-84.9	0.14 (1)	6.25	D-H	-24/16	0.02 (3)
E	-566.0	-84.9	-84.9	0.48 (1)	6.25	H-E	-500.0	0.79 (1)
F	-566.0	-84.9	-84.9	0.48 (1)	6.25	H-F	0/1013	0.23 (1)
G	-1008.0	0.0	0.0	0.31 (1)	6.24	K-C	-1076.0	0.55 (1)
H	-221.0	0.0	0.0	0.02 (1)	7.81			
I	0/600	-38.5	-38.5	0.34 (2)	10.00			
J	0/587	-38.5	-38.5	0.34 (2)	10.00			
K	0/587	-38.5	-38.5	0.34 (2)	10.00			
L	0/0	-38.5	-38.5	0.21 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
-PART 9 OF NBC 2010, NBC 2012
-CSA 688-09, CSA 688-14
-TPIC 2011, 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 DEF. (LL) = L/360 (0.69")
CALCULATED VERT. DEF. (LL) = L/999 (0.07")
ALLOWABLE DEF. (TL) = L/360 (0.69")
CALCULATED VERT. DEF. (TL) = L/999 (0.12")

CSI: TC=0.48/1.00 (E-F-1), BC=0.34/1.00 (H-J-2), WS=0.79/1.00 (E-H-1), SS=0.24/1.00 (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.

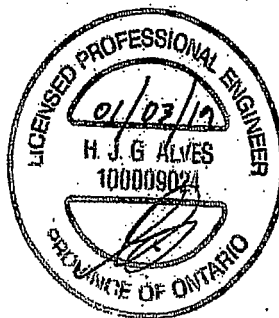
NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

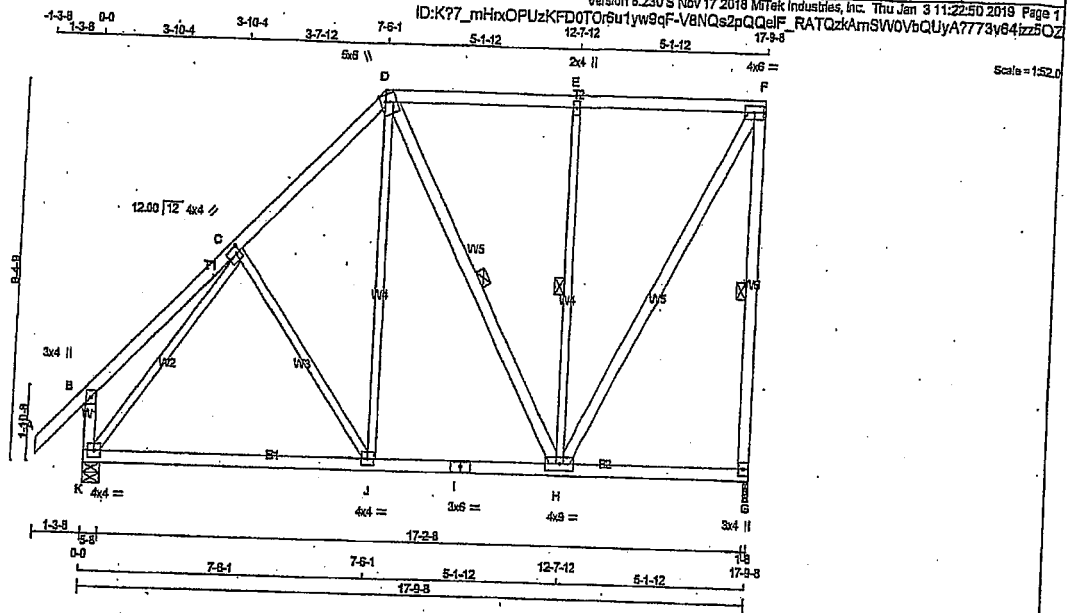
JSI GRIP= 0.82 (G) (INPUT= 0.80)

JSI METAL= 0.27 (F) (INPUT= 1.00)



DWG NO. TAM T1900044
STRUCTURAL
COMPONENT ONLY

JOB NAME 300536	TRUSS NAME T6	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					



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

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED	MAXIMUM FACTORED	INPUT	REQD					
	GROSS REACTION	GROSS REACTION	BRG	BRG					
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
G	1097	0	1097	0	0	1-8	1-8		
K	1216	0	1216	0	0	5-8	5-8		

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH	LL = 23.3	PSF	
	DL = 6.0	PSF	
BOT CH	LL = 10.5	PSF	
	DL = 7.0	PSF	
TOTAL LOAD	= 46.8	PSF	
SPACING = 24.0 IN. C/C			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV/p	MT20	3.0	4.0	
C	TMVW/t	MT20	4.0	4.0	2.00 1.25
D	TTWW/m	MT20	5.0	6.0	2.00 1.50
E	TMVW/t	MT20	2.0	4.0	
F	TMVW/t	MT20	4.0	6.0	
G	BMV1/p	MT20	3.0	4.0	
H	BMVWW/t	MT20	4.0	9.0	
I	BS/t	MT20	3.0	6.0	
J	BMVW/t	MT20	4.0	4.0	
K	BMVW/t	MT20	4.0	4.0	

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

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

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS									
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	MEMB.	MAX. FACTORED	FACTORED
	(LBS)	(PLF)			CS1 (LC)	UNBRAC		(LBS)	CS1 (LC)
FR-TO		FROM TO				LENGTH	FR-TO		
A-B	0/42	-84.9	-84.9	0.12 (1)	10.00	C-J	-105/32	0.08 (1)	
B-C	0/26	-84.9	-84.9	0.19 (1)	10.00	J-D	0/413	0.09 (2)	
C-D	-788/0	-84.9	-84.9	0.20 (1)	8.25	D-H	-145/0	0.08 (2)	
D-E	-481/0	-84.9	-84.9	0.38 (1)	8.25	H-E	-539/0	0.31 (1)	
E-F	-481/0	-84.9	-84.9	0.38 (1)	8.25	H-F	0/571	0.16 (1)	
G-F	-1011/0	0.0	0.0	0.42 (1)	8.25	K-C	-1049/0	0.76 (1)	
K-B	-239/0	0.0	0.0	0.08 (1)	7.81				
K-J	0/607	-38.5	-38.5	0.42 (2)	10.00				
J-I	0/549	-38.5	-38.5	0.42 (2)	10.00				
I-H	0/549	-38.5	-38.5	0.42 (2)	10.00				
H-G	0/0	-38.5	-38.5	0.17 (3)	10.00				

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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
-PART 9 OF RCBC 2018, CBC 2012
-CSA 088-09, CSA 088-14
-TPIC 2011, 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) = 1/360 (0.59")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.13")
ALLOWABLE DEFL.(TL) = 1/360 (0.59")
CALCULATED VERT. DEFL.(TL) = 1/957 (0.22")

CS1: TO=0.42/1.00 (F-G:1), BO=0.42/1.00 (H-K:2), WB=0.76/1.00 (C-K:1), SS=0.21/1.00 (E-F:1)

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

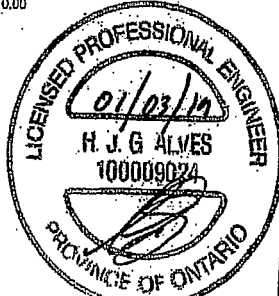
COMPANION LIVE LOAD FACTOR = 1.00

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 618 354 1657 788 1987 1658

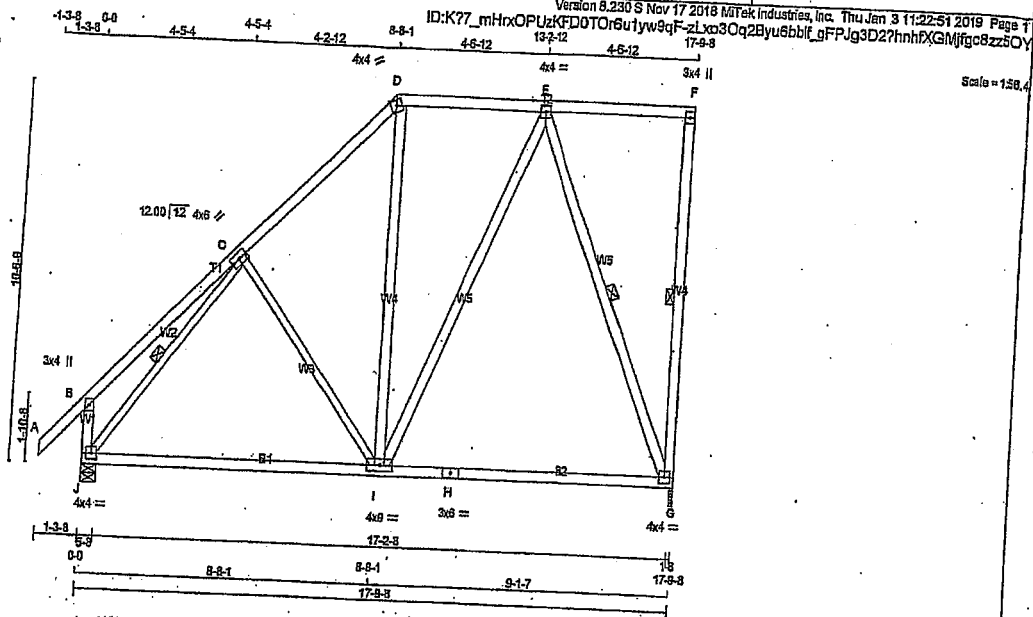
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.83 (C) (INPUT = 0.80)
JSI METAL=0.39 (C) (INPUT = 1.00)



DRWG NO. TAM T1900045
STRUCTURAL
COMPONENT ONLY

JOB NAME 300536 Tamarack Roof Truss, Burlington	TRUSS NAME 17	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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LUMBER	N.L.G.A. RULES	SIZE	LUMBER
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
J - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
H - G	2x4	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
C - I	2x3	DRY	No.2
J - C	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
B TMV+p	MT20	3.0	4.0	
C TMWW-t	MT20	4.0	4.0	
D TMV-m	MT20	4.0	4.0	Edge
E TMWW-t	MT20	3.0	4.0	
F TMV+p	MT20	3.0	4.0	
G BMWW-t	MT20	4.0	4.0	
H BS-t	MT20	3.0	4.0	
I BMWW-t	MT20	4.0	4.0	
J BMWW-t	MT20	4.0	4.0	

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

DESIGNER: BUILDING DESIGNER

FACTORED	MAXIMUM FACTORED	INPUT	RECORD
GROSS REACTION	GROSS REACTION	BRG	BRG
VERT	DOWN	UP	IN-SX
JT 1097	0	0	1-8
G 1216	0	0	5-8

UNFACTORED REACTIONS	1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
G 832	414/0	187/0
J 514	479/0	187/0

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

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

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

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

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

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO						FR-TO			
A-B	0/42	-84.9	-84.9	0.12 (1)	10.00	C-I	-172/14	0.18 (1)	10.00
B-C	0/31	-84.9	-84.9	0.28 (1)	10.00	D	0/280	0.04 (2)	10.00
C-D	-763/0	-84.9	-84.9	0.28 (1)	6.25	E	0/397	0.06 (2)	10.00
D-E	-512/0	-84.9	-84.9	0.30 (1)	6.25	E-G	-898/0	0.62 (1)	10.00
E-F	0/0	-84.9	-84.9	0.29 (1)	6.25	J-C	-1034/0	0.86 (1)	10.00
G-F	-146/0	0.0	0.0	0.08 (1)	7.51				
J-B	-256/0	0.0	0.0	0.03 (1)	7.51				
J-I	0/614	-38.5	-38.5	0.74 (2)	10.00				
I-H	0/365	-38.5	-38.5	0.72 (3)	10.00				
H-G	0/365	-38.5	-38.5	0.72 (3)	10.00				

TOTAL WEIGHT = 108 lb

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010; NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.59")
CALCULATED VERT. DEFL. (LL) = L/999 (0.18")
ALLOWABLE DEFL. (TL) = L/360 (0.59")
CALCULATED VERT. DEFL. (TL) = L/693 (0.31")

CSI: TC=0.20/1.00 (D-E-1), BC=0.74/1.00 (J-2), WS=0.62/1.00 (E-G-1), SS=0.22/1.00 (G-I-3)

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

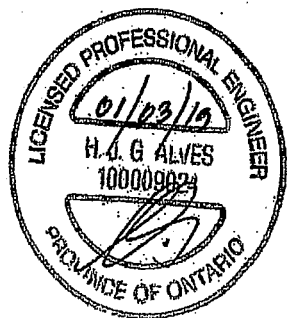
COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches
PLATE ROTATION TOL = 5.0 Deg.

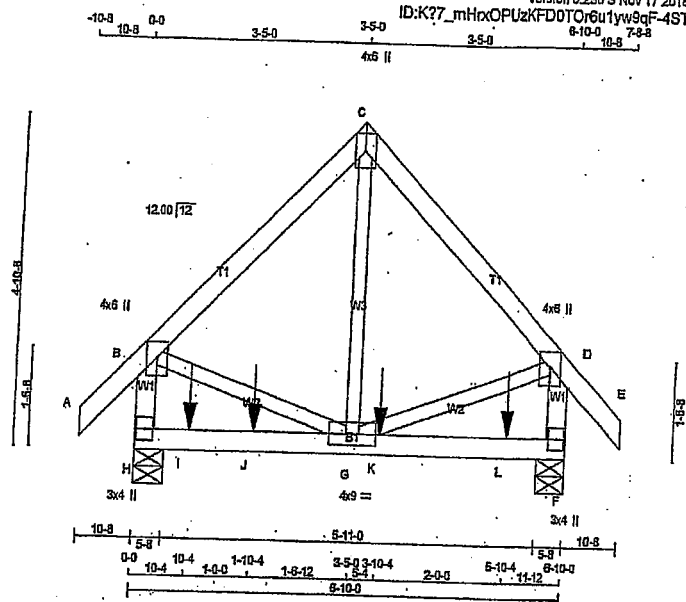
JSI GRIP = 0.80 (J) (INPUT = 0.90)
JSI METAL = 0.26 (C) (INPUT = 1.00)



DRWG NO. TAM 11900046
STRUCTURAL
COMPONENT ONLY

JOB NAME 300536 Tamarack Roof Truss, Burlington	TRUSS NAME T12	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Version 8.230 S Nov 17 2018 Mtek Industries, Inc. Thu Jan 3 11:29:37 2018 Page 1
ID:K27_mHxOPUzKFDOTOr6u1yw9qF-4STHHDkjahTVJ_ohmxXcmHtFtJcpNF1jt79tzzz5IC
6-10-0 7-8-8



Scale = 1/32"

LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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	2x8	DRY	No.2
EXCEPT			

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW/p	MT20	4.0	6.0	2.75	2.00
C	TMVW/p	MT20	4.0	6.0		
D	TMVW/p	MT20	4.0	6.0	2.75	2.00
F	BMVW/p	MT20	3.0	4.0		
G	BMVW/p	MT20	4.0	9.0		
H	BMVW/p	MT20	3.0	4.0		

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

BEARINGS									
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD	BRG	IN-SX
H	1188	0	1188	0	0	5-8	5-8		
F	1070	0	1070	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM	WIND	DEAD	SOIL
H	882	493 / 0	157 / 0	0 / 0	0 / 0	232 / 0	0 / 0
F	796	444 / 0	142 / 0	0 / 0	0 / 0	209 / 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									
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	FACTORED (PLF)	MAX. LCH	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. FACTORED (LBS)	CS1 (LC)
FR-TO						FR-TO			
A-B	0 / 29	-84.9	-84.9	0.07 (1)	10.00	G-C	0 / 633	0.18 (1)	
B-C	-853 / 0	-84.9	-84.9	0.20 (1)	6.25	B-G	0 / 485	0.12 (1)	
C-D	-853 / 0	-84.9	-84.9	0.20 (1)	6.25	G-D	0 / 485	0.12 (1)	
D-E	0 / 29	-84.9	-84.9	0.07 (1)	10.00				
H-B	-839 / 0	0.0	0.0	0.10 (1)	7.81				
F-D	-839 / 0	0.0	0.0	0.10 (1)	7.81				
H-I	0 / 0	-38.5	-38.5	0.49 (1)	10.00				
I-J	0 / 0	-38.5	-38.5	0.49 (1)	10.00				
J-G	0 / 0	-38.5	-38.5	0.49 (1)	10.00				
G-K	0 / 0	-38.5	-38.5	0.49 (1)	10.00				
K-L	0 / 0	-38.5	-38.5	0.49 (1)	10.00				
L-F	0 / 0	-38.5	-38.5	0.49 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.	
I	10-4	-314	-314	---	FRONT	VERT.	TOTAL	---	---
J	1-10-4	-311	-311	---	FRONT	VERT.	TOTAL	---	---
K	3-10-4	-311	-311	---	FRONT	VERT.	TOTAL	---	---
L	5-10-4	-311	-311	---	FRONT	VERT.	TOTAL	---	---

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2018, CBC 2012
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(65 % 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) = $L/999$ (0.03")
ALLOWABLE DEFL. (TL) = $L/360$ (0.23")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.06")

CS1: TC=0.20/1.00 (C/D:1), BC=0.49/1.00 (G/H:1), VB=0.18/1.00 (G/G:1), SS=0.45/1.00 (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

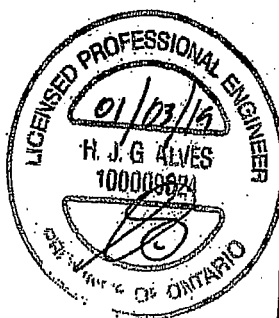
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES					
PLATE	GRIP (DRY)	SHEAR	SECTION	(PSI)	(FLI)
	MAX	MIN	MAX	MIN	MAX
MT20	518	354	1667	788	1987

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.59 (D) (INPUT = 0.90)
JSI METAL = 0.30 (C) (INPUT = 1.00)

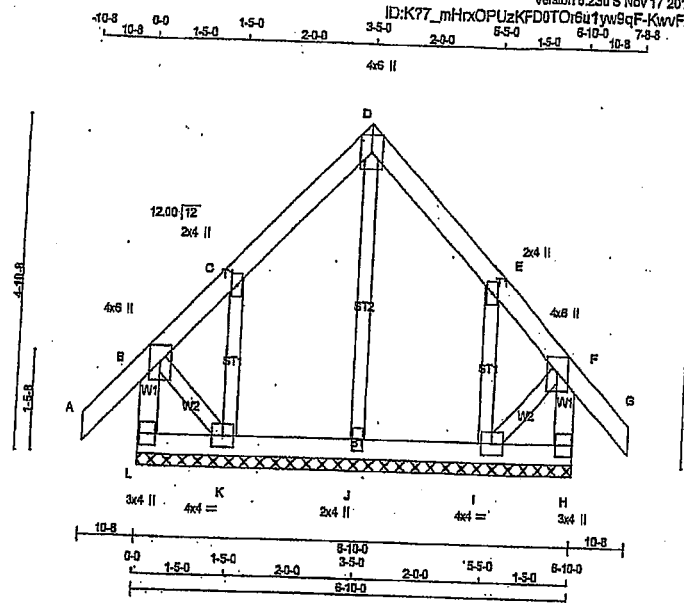


DRWG NO. TAM T1900052
STRUCTURAL
COMPONENT ONLY

JOB NAME 300536 Tamarack Roof Truss, Burlington	TRUSS NAME G12	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Jan 3 11:24:38 2019 Page 1
ID:K77_mHxOPuzKFD0T0i6u1yw8qF-KwvFX_7A7qMoc2RDfV8E_Zs7NyGB30zs4qsRzz5Mh

Scale = 1:30.6



LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
CHORDS			
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
L - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
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	6.0	2.75	2.00
C	TMVW+w	MT20	2.0	4.0		
D	TTVW+p	MT20	4.0	6.0		
E	TMVW+w	MT20	2.0	4.0		
F	TMVW+p	MT20	4.0	6.0	2.75	2.00
H	BMVW+p	MT20	3.0	4.0		
I	BMVW+t	MT20	4.0	4.0		
J	BMVW+w	MT20	2.0	4.0		
K	BMVW+t	MT20	4.0	4.0		
L	BMVW+p	MT20	3.0	4.0		

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

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.	FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED (LBS)	MEMB.	FORCE (LBS)	MAX. FACTORED (LBS)	MAX. FACTORED (LBS)
FR-TO				FR-TO			
A-B	0/29	-84.9	-84.9 0.06 (1)	J-D	-118/0	0.04 (1)	0.04 (1)
B-C	-40/0	-84.9	-84.9 0.06 (1)	K-C	-142/0	0.02 (1)	0.02 (1)
C-D	-33/0	-84.9	-84.9 0.06 (1)	I-E	-142/0	0.02 (1)	0.02 (1)
D-E	-33/0	-84.9	-84.9 0.06 (1)	B-K	0/29	0.01 (1)	0.01 (1)
E-F	-40/0	-84.9	-84.9 0.06 (1)	I-F	0/29	0.01 (1)	0.01 (1)
F-G	0/29	-84.9	-84.9 0.06 (1)				
L-B	-190/0	0.0	0.0 0.02 (1)				
H-F	-190/0	0.0	0.0 0.02 (1)				
L-K	0/0	-38.5	-38.5 0.02 (3)				
K-J	0/17	-38.5	-38.5 0.03 (3)				
J-I	0/17	-38.5	-38.5 0.03 (3)				
I-H	0/0	-38.5	-38.5 0.02 (3)				

TOTAL WEIGHT = 34 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, OBC 2012
- CSA 088-09, CSA 086-14
- TPIC 2011, 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=0.06/1.00 (A-E-1), BC=0.03/1.00 (I-J-3), WB=0.04/1.00 (D-L-1), SS=0.03/1.00 (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

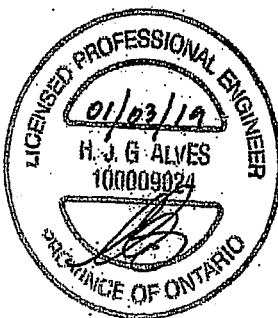
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 619 354 1667 788 1997 1655

PLATE PLACEMENT TOL = 0.250 inches

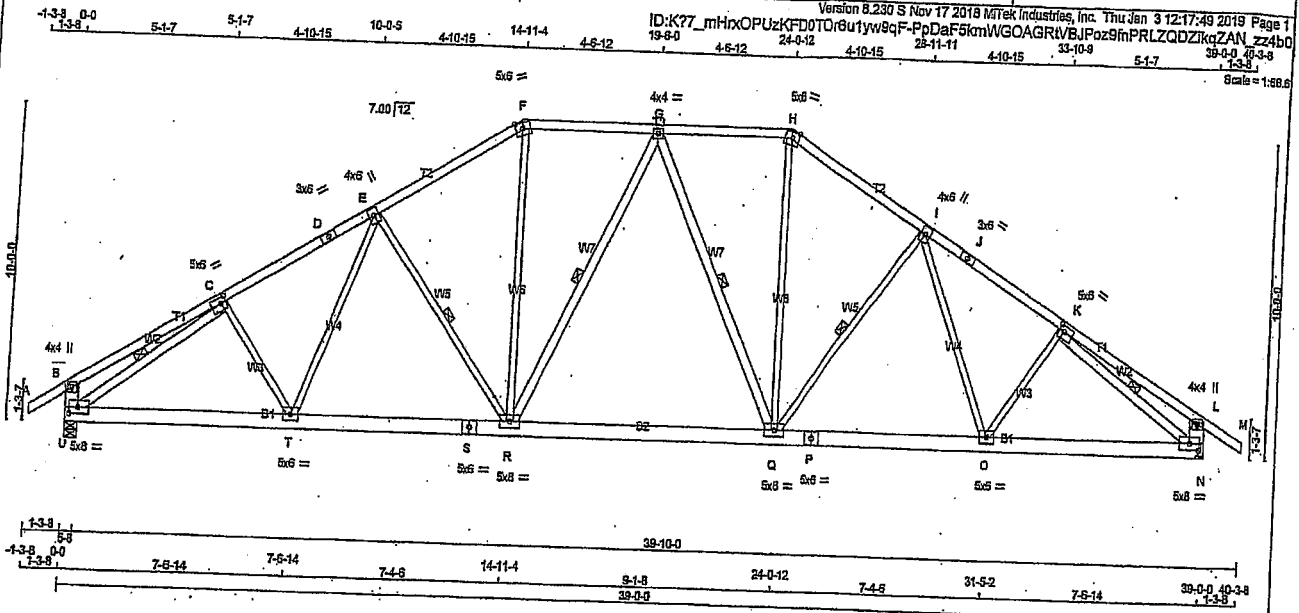
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.13 (F) (INPUT=0.90)
JSI METAL=0.07 (C) (INPUT=1.00)



DWG NO. TAM T1900035
STRUCTURAL
COMPONENT ONLY

JOB NAME 300539	TRUSS NAME T13	QUANTITY 6	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMW-p	MT20	4.0	4.0
C	TMW-w	MT20	5.0	6.0 2.25 2.00
D	TS-4	MT20	3.0	8.0
E	TMW-w	MT20	4.0	8.0
F	TTW-w	MT20	5.0	6.0 Edge
G	TMW-w	MT20	4.0	4.0
H	TTW-w	MT20	5.0	6.0 Edge
I	TMW-w	MT20	5.0	6.0
J	TS-4	MT20	3.0	8.0
K	TMW-w	MT20	5.0	6.0 2.25 2.00
L	TMW-p	MT20	4.0	4.0
N	BMW-w	MT20	5.0	8.0 2.50 3.75
O	BMW-w	MT20	5.0	6.0
P	BS-4	MT20	5.0	6.0
Q	BMW-w	MT20	5.0	8.0
R	BMW-w	MT20	5.0	8.0
S	BS-4	MT20	5.0	6.0
T	BMW-w	MT20	5.0	6.0
U	BMW-w	MT20	5.0	8.0 2.50 3.75

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	GROSS REACTION	JT	GROSS REACTION	BRG	BRG	BRG	BRG
U	2521 0	U	2521 0	5-8	5-8	5-8	5-8
N	2521 0	N	2521 0	0	0	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
U	COMBINED	SNOW	U	COMBINED	SNOW
N	1905	972/0	N	1905	972/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.64 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

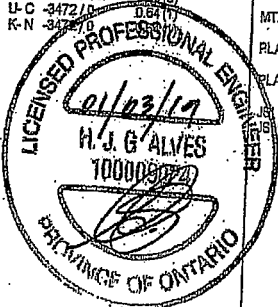
1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-R, G-R, G-Q, I-Q, C-U, K-N.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0/129	-84.9	-84.9 0.11 (1)	10.00	C-T	0/147	0.03 (3)
B-C	0/119	-84.9	-84.9 0.28 (1)	10.00	T-E	0/330	0.07 (2)
C-D	-3216/0	-84.9	-84.9 0.39 (1)	3.64	E-R	-598/0	0.28 (1)
D-E	-3216/0	-84.9	-84.9 0.39 (1)	3.64	R-F	0/1038	0.23 (1)
E-F	-2711/0	-84.9	-84.9 0.35 (1)	3.94	F-G	-255/0	0.15 (1)
F-G	-2333/0	-84.9	-84.9 0.28 (1)	4.25	G-Q	-255/0	0.15 (1)
G-H	-2333/0	-84.9	-84.9 0.28 (1)	4.25	Q-I	0/1038	0.23 (1)
H-I	-2711/0	-84.9	-84.9 0.35 (1)	3.94	I-J	-598/0	0.28 (1)
I-J	-3216/0	-84.9	-84.9 0.39 (1)	3.64	J-K	0/330	0.07 (2)
J-K	-3216/0	-84.9	-84.9 0.39 (1)	3.64	K-L	0/147	0.03 (3)
K-L	0/119	-84.9	-84.9 0.28 (1)	10.00	L-M	-3472/0	0.64 (1)
L-M	0/129	-84.9	-84.9 0.11 (1)	10.00	M-N	-3472/0	0.64 (1)
M-N	-290/0	0.0	0.0 0.02 (1)	7.81			
N-L	-290/0	0.0	0.0 0.02 (1)	7.81			
U-T	0/2763	-38.5	-38.5 0.47 (1)	10.00			
T-S	0/2581	-38.5	-38.5 0.47 (2)	10.00			
S-R	0/2581	-38.5	-38.5 0.47 (2)	10.00			
R-Q	0/2440	-38.5	-38.5 0.44 (2)	10.00			
Q-P	0/2581	-38.5	-38.5 0.47 (2)	10.00			
P-O	0/2581	-38.5	-38.5 0.47 (2)	10.00			
O-N	0/2763	-38.5	-38.5 0.47 (1)	10.00			



TOTAL WEIGHT = 6 X 209 = 1252 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 PSF

SPACING = 24" 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, CBC 2012
- CSA 096-09, CSA 096-14
- TRC 2011, TRC 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/660 (1.30")
CALCULATED VERT. DEFL. (LL) = L/999 (0.15")
ALLOWABLE DEFL. (TL) = L/660 (1.30")
CALCULATED VERT. DEFL. (TL) = L/999 (0.26")

CS: TC=0.39/1.00 (K=1), EC=0.47/1.00 (C=2), WB=0.64/1.00 (K=1), SS=0.15/1.00 (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 HEELS OFF

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1868

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

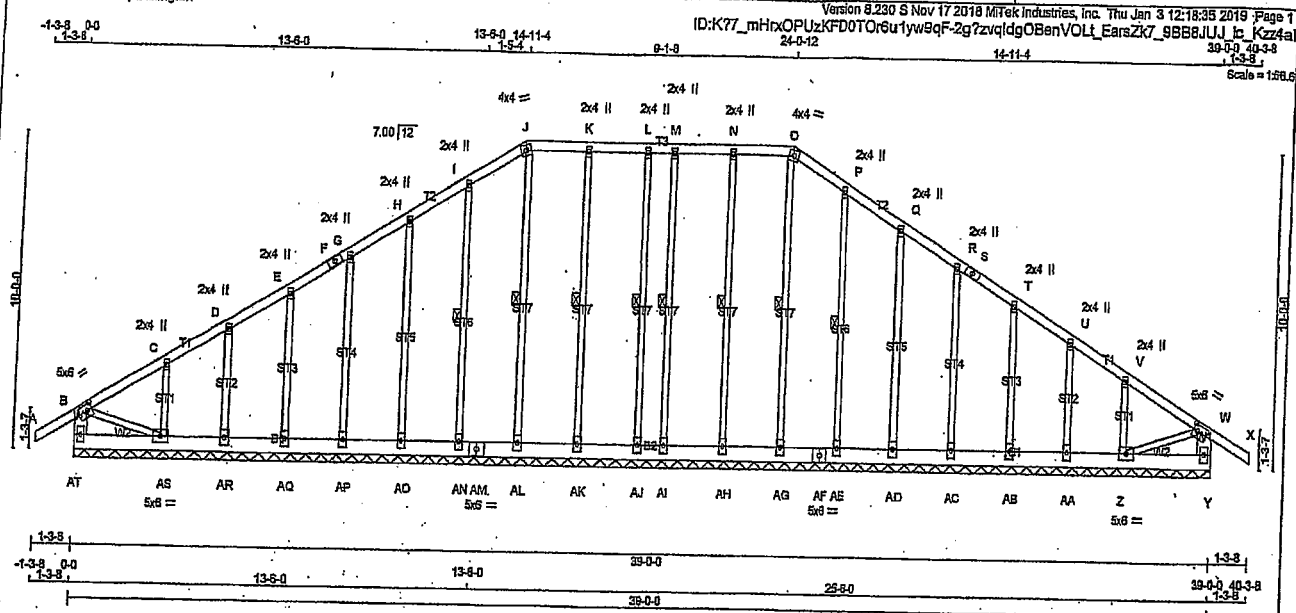
GRIP = 0.90 (K) (INPUT = 0.90)
METAL = 0.88 (C) (INPUT = 1.00)

ENGR. NO. TAM T19 000 66
STRUCTURAL
COLLEGE OF ENGINEERING

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300539	G13	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:K77_mHxOPuzkFD0r6u1yw9qF-2g?zvqldgOBenVOLL_EarsZk7_9BB8JUJL_Kzz4a1
39-0-0 40-3-8
Scale = 1/8"=1'-0"



TOTAL WEIGHT = 2 X 227 = 454 lb

LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - F	2x4	DRY	No.2
F - J	2x4	DRY	No.2
J - O	2x4	DRY	No.2
O - S	2x4	DRY	No.2
S - X	2x4	DRY	No.2
AT - B	2x6	DRY	No.2
Y - W	2x6	DRY	No.2
AT - AM	2x6	DRY	No.2
AM - AF	2x6	DRY	No.2
AF - Y	2x6	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" OC.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	6.0	2.50	2.00
C, D, E, G, H, I, K, L, M, N, P, Q, R, T, U, V	TMVW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
J	TTW-m	MT20	4.0	4.0		
O	TS-t	MT20	3.0	6.0		
S	TS-t	MT20	3.0	6.0		
W	TMVW-t	MT20	5.0	6.0	2.50	2.00
Y	BMVW-t	MT20	3.0	6.0		
Z	BMVW-t	MT20	5.0	6.0		
AA, AB, AC, AD, AE, AG, AH, AI, AJ, AK, AL, AN, AO, AP, AR, AS						
AA	BMVW-t	MT20	3.0	6.0		
AF	BS-t	MT20	5.0	6.0		
AM	BS-t	MT20	5.0	6.0		
AS	BMVW-t	MT20	5.0	6.0		
AT	BMVW-t	MT20	3.0	6.0		

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.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF L-AJ, K-AK, J-AL, I-AN, N-AH, M-AI, O-AG, P-AE.
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/29	-84.9 -84.9 0.11 (1)	10.00	A-J-L	-117/0	0.08 (1)	
B-C	-26/0	-84.9 -84.9 0.09 (1)	6.25	AK-K	-188/0	0.13 (1)	
C-D	-41/0	-84.9 -84.9 0.09 (1)	6.25	AL-J	-131/0	0.09 (1)	
D-E	-23/0	-84.9 -84.9 0.04 (1)	6.25	AN-I	-188/0	0.09 (1)	
E-F	-24/0	-84.9 -84.9 0.04 (1)	6.25	AO-H	-166/0	0.17 (1)	
F-G	-24/0	-84.9 -84.9 0.04 (1)	6.25	AP-G	-166/0	0.11 (1)	
G-H	-21/0	-84.9 -84.9 0.04 (1)	6.25	AQ-E	-174/0	0.07 (1)	
H-I	-18/0	-84.9 -84.9 0.04 (1)	6.25	AR-D	-139/0	0.04 (1)	
I-J	-25/0	-84.9 -84.9 0.04 (1)	6.25	AS-C	-254/0	0.04 (1)	
J-K	-13/0	-84.9 -84.9 0.05 (1)	6.25	AH-N	-198/0	0.13 (1)	
K-L	-13/0	-84.9 -84.9 0.05 (1)	6.25	AI-M	-117/0	0.08 (1)	
L-M	-13/0	-84.9 -84.9 0.03 (1)	6.25	AG-O	-131/0	0.09 (1)	
M-N	-13/0	-84.9 -84.9 0.05 (1)	6.25	AE-P	-186/0	0.09 (1)	
N-O	-25/0	-84.9 -84.9 0.05 (1)	6.25	AD-Q	-166/0	0.17 (1)	
O-P	-25/0	-84.9 -84.9 0.04 (1)	6.25	AC-R	-166/0	0.11 (1)	
P-Q	-18/0	-84.9 -84.9 0.04 (1)	6.25	AB-T	-174/0	0.07 (1)	
Q-R	-21/0	-84.9 -84.9 0.04 (1)	6.25	AA-U	-139/0	0.04 (1)	
R-S	-24/0	-84.9 -84.9 0.04 (1)	6.25	Z-V	-254/0	0.04 (1)	
S-T	-24/0	-84.9 -84.9 0.04 (1)	6.25	B-AS	0/34	0.01 (1)	
T-U	-23/0	-84.9 -84.9 0.04 (1)	6.25	Z-W	0/34	0.01 (1)	
U-V	-41/0	-84.9 -84.9 0.09 (1)	6.25				
V-W	-26/0	-84.9 -84.9 0.09 (1)	6.25				
W-X	0/29	-84.9 -84.9 0.11 (1)	10.00				
AT-B	-247/0	0.0 0.0 0.02 (1)	7.81				
Y-W	-247/0	0.0 0.0 0.02 (1)	7.81				

AS	0/0	-38.5	-38.5 0.03 (3)	10.00
AR	0/25	-38.5	-38.5 0.03 (2)	10.00
AQ	0/22	-38.5	-38.5 0.01 (2)	10.00
AP	0/20	-38.5	-38.5 0.01 (2)	10.00
AO	0/18	-38.5	-38.5 0.01 (2)	10.00
AN	0/16	-38.5	-38.5 0.01 (2)	10.00
AM	0/15	-38.5	-38.5 0.01 (2)	10.00
AL	0/15	-38.5	-38.5 0.01 (2)	10.00
AK	0/13	-38.5	-38.5 0.01 (2)	10.00
AJ	0/13	-38.5	-38.5 0.01 (2)	10.00
AI	0/13	-38.5	-38.5 0.01 (2)	10.00
AH	0/13	-38.5	-38.5 0.01 (2)	10.00
AG	0/13	-38.5	-38.5 0.01 (2)	10.00
AF	0/15	-38.5	-38.5 0.01 (2)	10.00
AE	0/15	-38.5	-38.5 0.01 (2)	10.00
AD	0/16	-38.5	-38.5 0.01 (2)	10.00
AC	0/18	-38.5	-38.5 0.01 (2)	10.00

LICENSED PROFESSIONAL E

01/03/19

H. J. G. ALVES

10000924

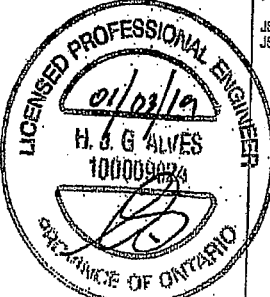
PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 PSF
SPACING = 24" 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 2010, NBC 2015
THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, 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: TO=0.11/1.00 (A-B:1), BC=0.03/1.00 (ZAA:2)
WB=0.17/1.00 (Q-AD:1), SS=0.10/1.00 (VAV: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) (FLD) (FLU)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1667 1666
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.60 (4) (INPUT = 0.90)
JSI METAL= 0.12 (C) (INPUT = 1.00)



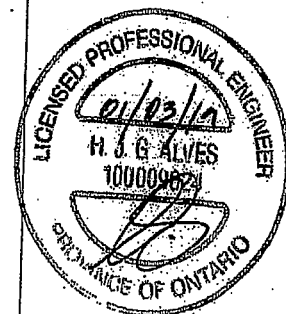
DRWG NO. TAM T1900050
STRUCTURAL
COMPANY TAM V 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300539	G13	2	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					
Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Thu Jan 3 12:18:35 2019 Page 2					
ID:K77 mHxQPLzKFD0TO6u1vw9qF-2q?zvqldgOBerVOLt EarsZk7 9BB8JUU to Kzz4ai					

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	1C1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRAC LENGTH FR-TO
FR-TO		FROM TO					
AG-AB	0/20	-38.5 -38.5	0.01 (2)				10.00
AB-AA	0/22	-38.5 -38.5	0.01 (2)				10.00
AA-Z	0/25	-38.5 -38.5	0.03 (2)				10.00
Z-Y	0/0	-38.5 -38.5	0.03 (3)				10.00

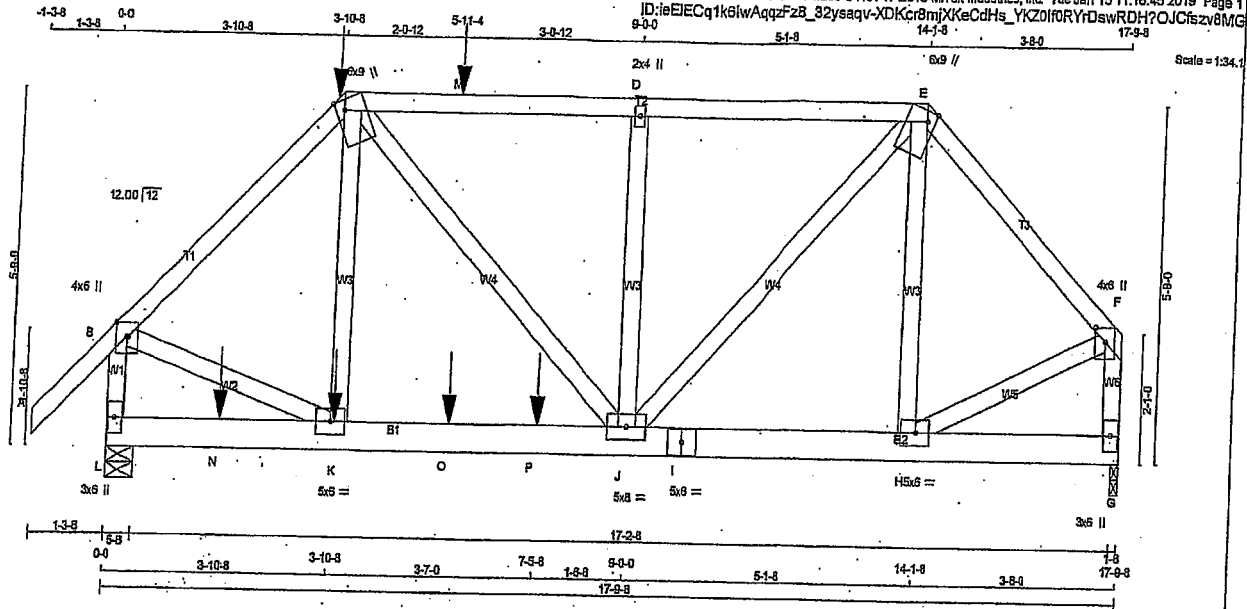


DRWG NO. TAM T1900060
STRUCTURAL
COMPUTATION 2/2

JOB NAME 300783	TRUSS NAME T26A	QUANTITY 1	PLY 2	JOB DESC: TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 103 = 206 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x4 DRY No.2
DRY, SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE (61.0)
C-E	12	SIDE (61.0)
E-F	12	TOP
L-B	12	TOP
G-F	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
L-I	12	SIDE (163.1)
I-G	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	4.0	6.0	2.75 2.00
C	TTWW+m	MT20	6.0	9.0	Edge 1.75
D	TMW+p	MT20	2.0	4.0	
E	TTWW+m	MT20	6.0	9.0	Edge 1.75
F	TMW+p	MT20	4.0	6.0	2.75 2.00
G	BMW+p	MT20	3.0	6.0	
H	BMW+p	MT20	5.0	6.0	
I	BS+	MT20	5.0	6.0	
J	BMW+p	MT20	5.0	6.0	
K	BMW+p	MT20	5.0	6.0	
L	BMW+p	MT20	3.0	6.0	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	2130	2130	0	5-8
L VERT	1615	1615	0	5-8
G VERT	1615	1615	0	5-8

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	1591	854/0
L COMBINED	1214	636/0
G COMBINED		246/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.04 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.09 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 CSI (L.C.)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (L.C.)
FR-TO				FR-TO		
A-B	0/42	-84.9	-84.9 0.07 (1)	K-C	0/287	0.03 (3)
B-C	-1911/0	-84.9	-84.9 0.14 (1)	C-J	0/777	0.07 (1)
C-M	-1887/0	-84.9	-84.9 0.25 (1)	J-D	-560/0	0.10 (1)
M-D	-1887/0	-84.9	-84.9 0.25 (1)	D-E	0/1358	0.12 (1)
D-E	-1887/0	-84.9	-84.9 0.25 (1)	E-H	-341/0	0.06 (1)
E-F	-1359/0	-84.9	-84.9 0.12 (1)	F-K	0/1480	0.06 (1)
L-B	-2121/0	0.0	0.0 0.12 (1)	H-F	0/1480	0.06 (1)
G-F	-1535/0	0.0	0.0 0.09 (1)			

	LOC.	LC1	MAX.	MAX+	FACE	DIR.
L-N	0/0	-38.5	-38.5 0.13 (1)	10.00	FRONT	VERT
N-K	0/0	-38.5	-38.5 0.13 (1)	10.00	FRONT	VERT
K-O	0/1350	-38.5	-38.5 0.37 (1)	10.00	FRONT	VERT
O-P	0/1350	-38.5	-38.5 0.37 (1)	10.00	FRONT	VERT
P-J	0/1350	-38.5	-38.5 0.37 (1)	10.00	FRONT	VERT
J-I	0/948	-38.5	-38.5 0.22 (1)	10.00	FRONT	VERT
I-H	0/948	-38.5	-38.5 0.22 (1)	10.00	FRONT	VERT
H-G	0/0	-38.5	-38.5 0.03 (2)	10.00	TOP	VERT

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.
C	3-10-8	-271	-271	---	FRONT	VERT
K	3-11-4	-36	-46	---	FRONT	VERT
M	5-11-4	-80	-80	---	FRONT	VERT
N	1-11-4	-36	-46	---	FRONT	VERT
O	5-11-4	-36	-46	---	FRONT	VERT
P	7-5-8	-972	-972	---	TOP	VERT

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 23.3	PSF
DL	= 6.0	PSF
BOT CH. LL	= 10.5	PSF
DL	= 7.0	PSF
TOTAL LOAD	= 46.8	PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TFC 2011, TFC 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 (0.59")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.59")
CALCULATED VERT. DEFL. (TL) = L/999 (0.06")

CSI: TC=0.25/1.00 (C-D:1), BC=0.37/1.00 (H-K:1),
WB=0.13/1.00 (B-K:1), SS=0.26/1.00 (H-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (B) (INPUT = 0.90)

JSI METAL= 0.39 (B) (INPUT = 1.00)

DWG NO. TAM 1790/1093
STRUCTURAL
COMPONENT ONLY

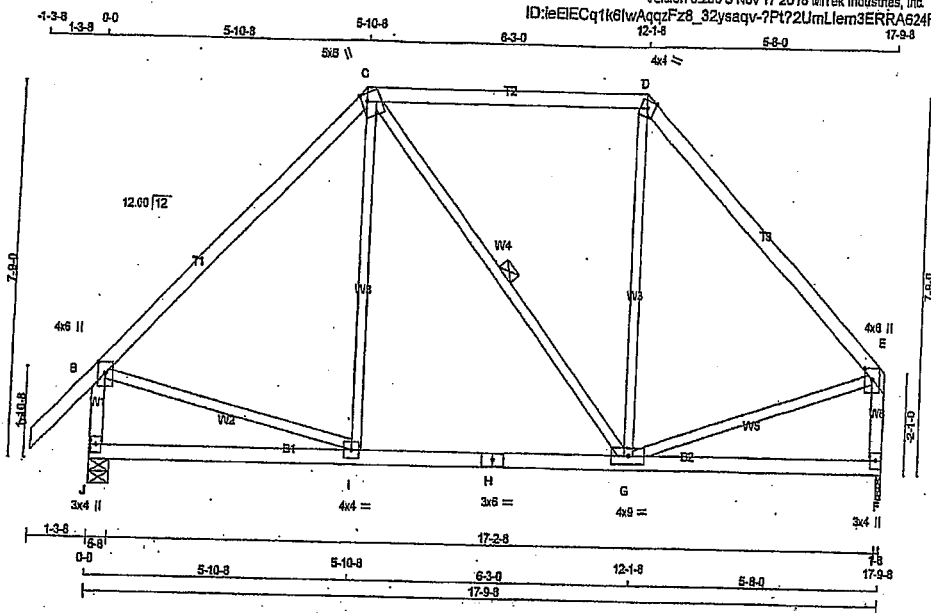
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300783	T27A	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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Scale = 1:43.8



TOTAL WEIGHT = 81.16

LUMBER

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	6.0	2.75	2.00
C	TTVW+m	MT20	5.0	6.0	2.00	1.50
D	TTVW+m	MT20	4.0	4.0	Edge	
E	TMVW+p	MT20	4.0	6.0	2.75	2.00
F	BMVW+p	MT20	3.0	4.0		
G	BMVW+p	MT20	4.0	9.0		
H	BS-t	MT20	3.0	6.0		
I	BMVW+p	MT20	4.0	4.0		
J	BMVW+p	MT20	3.0	4.0		

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

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
J	1216	0	1216	0	0	5-8	5-8
F	1097	0	1097	0	0	1-8	1-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	914	479 / 0	167 / 0	0 / 0	0 / 0	248 / 0	0 / 0
F	832	414 / 0	187 / 0	0 / 0	0 / 0	231 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.09 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-G.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	FORCE (LBS)	MAX (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 42	-84.9	-84.9 0.12 (1)	10.00	I-C	0 / 243	0.08 (3)
B-C	-851 / 0	-84.9	-84.9 0.40 (1)	8.09	C-G	-18 / 0	0.01 (1)
C-D	-590 / 0	-84.9	-84.9 0.43 (1)	6.25	G-D	0 / 230	0.05 (3)
D-E	-834 / 0	-84.9	-84.9 0.37 (1)	6.18	B-I	0 / 619	0.14 (1)
J-B	-1123 / 0	0.0	0.0 0.13 (1)	7.48	G-E	0 / 614	0.14 (1)
F-E	-1009 / 0	0.0	0.0 0.12 (1)	7.79			
J-I	0 / 0	-38.5	-38.5 0.25 (3)	10.00			
I-H	0 / 601	-38.5	-38.5 0.32 (2)	10.00			
H-G	0 / 601	-38.5	-38.5 0.32 (2)	10.00			
G-F	0 / 0	-38.5	-38.5 0.24 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
DL = 6.0 PSF	
BOT CH.	LL = 10.5 PSF
DL = 7.0 PSF	
TOTAL LOAD	= 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, OSC 2012
- CSA 088-09, CSA 086-14
- TPIC 2011, 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 (0.59")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.59")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.43/1.00 (C-D:1), BC=0.32/1.00 (G-I:2), WB=0.14/1.00 (B-I:1), SS=0.21/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

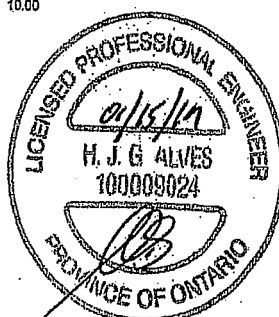
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES		PLATE GRIP(DRY) SHEAR		SECTION		
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1687	788	1687	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.79 (B) (INPUT = 0.90)
JSI METAL= 0.41 (B) (INPUT = 1.00)



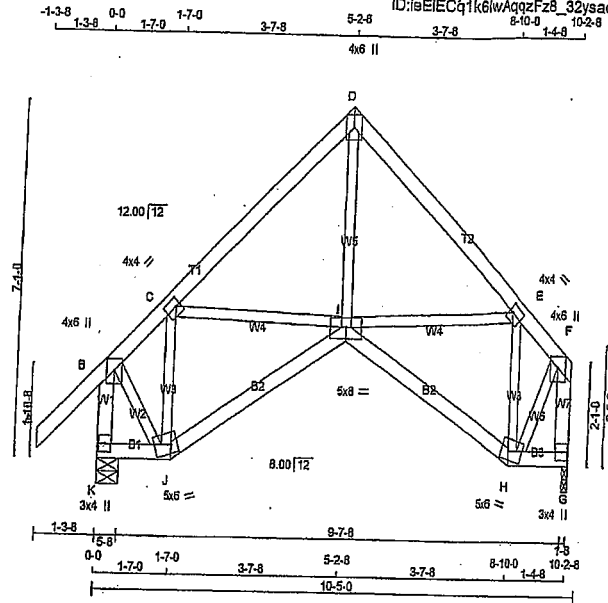
DRWG NO. TAM T1901094
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300799	T30A	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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Scale = 1/42.3



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B - TMVW+p	MT20	4.0	6.0	2.75	2.00
C - TMVW-t	MT20	4.0	4.0	2.00	1.00
D - TTW+p	MT20	4.0	6.0		
E - TMVW-t	MT20	4.0	4.0	2.00	1.00
F - TMVW+p	MT20	4.0	6.0	2.75	2.00
G - BMV1+p	MT20	3.0	4.0		
H - BBWW-m	MT20	5.0	6.0	2.00	2.00
I - BBWWV-p	MT20	5.0	8.0	2.75	4.00
J - BBWW-m	MT20	5.0	6.0	2.00	1.75
K - BMV1+p	MT20	3.0	4.0		

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

FACTORED	MAXIMUM FACTORED	INPUT	REQRD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UPLIFT	IN-SX
K 756	0	0	5-8
G 622	0	0	1-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE
K 595	307/0	107/0
G 472	233/0	107/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, 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	MAX. FACTORED	FACTORED	MAX.	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0/42	-84.9	-84.9 0.12 (1)	I-D	0/462
B-C	-398/0	-84.9	-84.9 0.11 (1)	E-E	0/112
C-D	-535/0	-84.9	-84.9 0.15 (1)	-432/0	0.08 (1)
D-E	-537/0	-84.9	-84.9 0.14 (1)	C-I	0/104
E-F	-336/0	-84.9	-84.9 0.12 (1)	J-C	-351/0
K-B	-726/0	0.0	0.0 0.08 (1)	B-J	0/397
G-F	-595/0	0.0	0.0 0.07 (1)	H-F	0/456
K-J	0/0	-38.5	-38.5 0.02 (3)		
J-I	0/316	-38.5	-38.5 0.16 (2)		
I-H	0/306	-38.5	-38.5 0.15 (2)		
H-G	0/0	-38.5	-38.5 0.02 (3)		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
LL = 6.0 PSF
BOT CH. LL = 10.5 PSF
LL = 7.0 PSF
TOTAL LOAD = 46.8 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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) = $L/360$ (0.34")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.34")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CSI: TC=0.15/1.00 (C-D:1), BC=0.16/1.00 (I-J:2),
WB=0.10/1.00 (D-I:2), SS=0.11/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTO SOLVE HEELS OFF

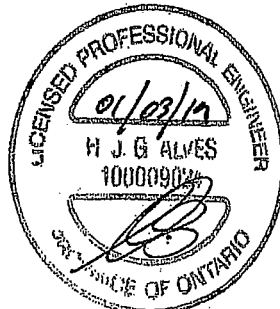
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.79 (H) (INPUT = 0.90)
JSI METAL = 0.19 (B) (INPUT = 1.00)



DRWG NO. TAM T1900120
STRUCTURAL
COMPONENT ONLY

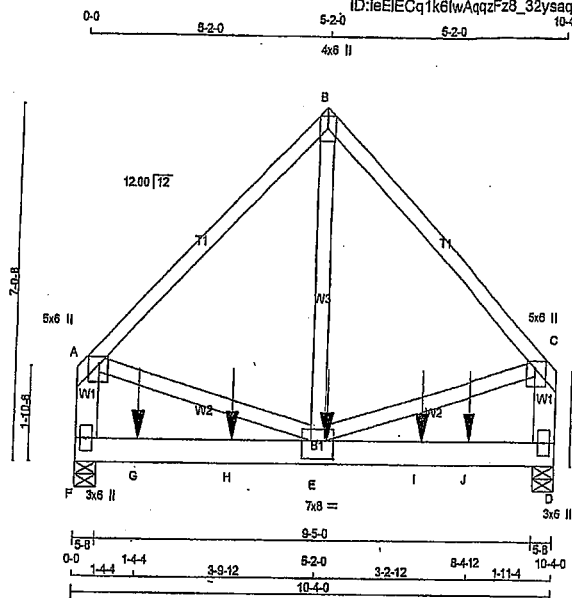
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300805	T31	1	2	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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



TOTAL WEIGHT = 2 X 59 = 118 lb

LUMBER

N.L.G.A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY No.2	SPF
B - C	2x4	DRY No.2	SPF
F - A	2x6	DRY No.2	SPF
D - C	2x6	DRY No.2	SPF
F - D	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-B 1	12	TOP
B-C 1	12	TOP
F-A 2	12	TOP
D-C 2	12	TOP
BOTTOM CHORDS : (0.122'X3") SPIRAL NAILS		
F-D 2	12	SIDE (0.0)
WEBS : (0.122'X3") SPIRAL NAILS		
2x4 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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	TMVV+p	MT20	5.0	6.0	1.75 2.75
B	TTW+p	MT20	4.0	6.0	
C	TMVV+p	MT20	5.0	6.0	1.75 2.75
D	BMV1+p	MT20	3.0	6.0	
E	BMVVV+p	MT20	7.0	8.0	4.25 4.00
F	BMV1+p	MT20	3.0	6.0	

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT GROSS REACTION	REQ'D BRG
JT	VERT	HORIZ	DOWN	HORIZ
F	3504	0	3694	0
D	3557	0	3557	0

UNFACTORED REACTIONS

	1ST LOSE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
F	2699	1449/0	526/0
D	2664	1429/0	520/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.31 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.

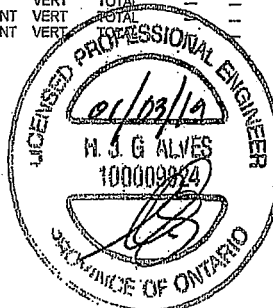
LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. (LC)
FR-TO					FR-TO		
A-B	-2643/0	-84.9	-84.9 0.29 (1)	5.31	E-B	0/3300	0.29 (1)
B-C	-2643/0	-84.9	-84.9 0.29 (1)	5.31	A-E	0/1940	0.17 (1)
F-A	-2609/0	0.0	0.0 0.10 (1)	7.81	E-C	-0/1940	0.17 (1)
D-C	-2609/0	0.0	0.0 0.10 (1)	7.81			
F-G	0/0	-38.5	-38.5 0.73 (1)	10.00			
G-H	0/0	-38.5	-38.5 0.73 (1)	10.00			
H-E	0/0	-38.5	-38.5 0.73 (1)	10.00			
E-I	0/0	-38.5	-38.5 0.73 (1)	10.00			
I-J	0/0	-38.5	-38.5 0.73 (1)	10.00			
J-D	0/0	-38.5	-38.5 0.73 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	5-4.4	-1177	-1177	—	TOP	VERT	TOTAL	—	—
G	1-4.4	-1177	-1177	—	TOP	VERT	TOTAL	—	—
H	3-4.4	-1177	-1177	—	TOP	VERT	TOTAL	—	—
I	7-4.4	-1177	-1177	—	FRONT	VERT	TOTAL	—	—
J	8-4.12	-1177	-1177	—	FRONT	VERT	TOTAL	—	—



DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 23.3 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 46.8 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.34")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.34")
CALCULATED VERT. DEFL. (TL) = L/999 (0.10")

CSI: TC=0.29/1.00 (B-C:1), BC=0.73/1.00 (E-F:1), WB=0.29/1.00 (B-E:1), SS=0.53/1.00 (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 (PL)
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

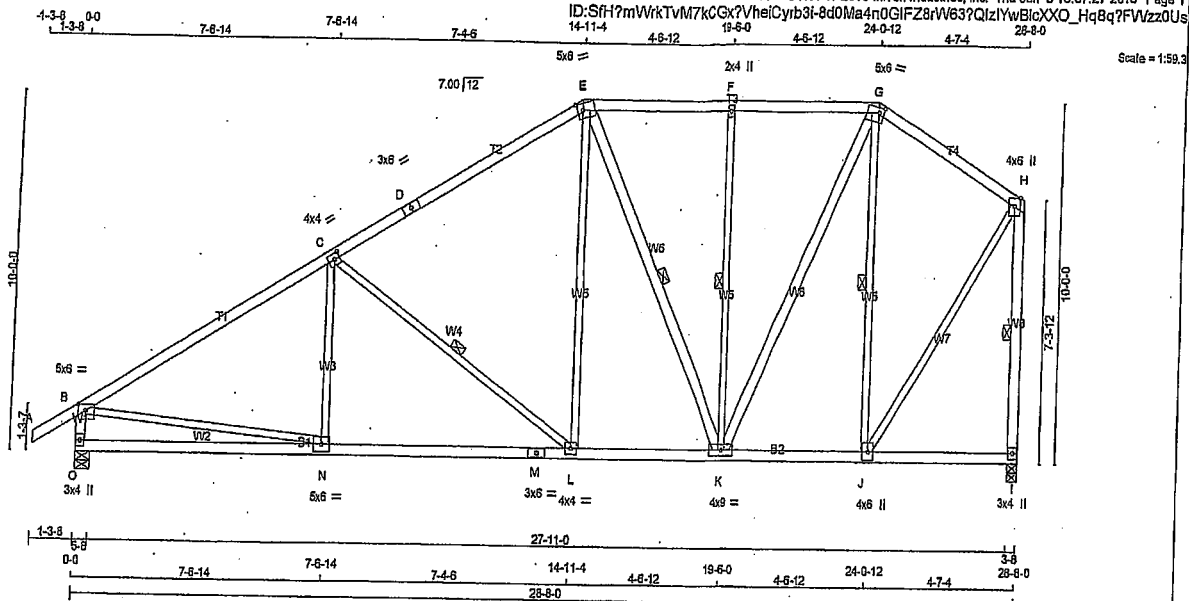
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (B) (INPUT = 0.90)
JSI METAL= 0.39 (A) (INPUT = 1.00)

ENG NO. TAM 71900157
STRUCTURAL
CALC. ONLY

JOB NAME 300800	TRUSS NAME T33	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					

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TOTAL WEIGHT = 150 lb
[M/F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	2.00	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	6.0		
E	TTVW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-w	MT20	2.0	4.0		
G	TTVW-m	MT20	5.0	6.0	1.75	1.75
H	TMVW-p	MT20	4.0	6.0	Edge	
I	BMV1+p	MT20	3.0	4.0		
J	BMVWV-t	MT20	4.0	6.0		
K	BMVWV-t	MT20	4.0	6.0		
L	BMVWV-t	MT20	4.0	6.0		
M	BS-t	MT20	3.0	6.0		
N	BMVWV-t	MT20	5.0	6.0		
O	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
O	1884	0	1884	0
I	1768	0	1768	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
O	1421 731/0 301/0 0/0 0/0 389/0 0/0
I	1341 688/0 301/0 0/0 0/0 373/0 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 = 3.60 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRAC CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO	LENGTH	FR-TO		
A-B	0/29	-84.9 -84.9 0.11 (1)	10.00	N-C	0/297	0.07 (3)
B-C	-2250/0	-84.9 -84.9 0.84 (1)	3.60	C-L	-822/0	0.48 (1)
C-D	-1557/0	-84.9 -84.9 0.71 (1)	4.33	L-E	0/723	0.16 (2)
D-E	-1557/0	-84.9 -84.9 0.71 (1)	4.33	E-K	-370/0	0.23 (1)
E-F	-1161/0	-84.9 -84.9 0.23 (1)	5.65	K-F	-472/0	0.32 (1)
F-G	-1161/0	-84.9 -84.9 0.23 (1)	5.65	K-G	0/1046	0.17 (1)
G-H	-840/0	-84.9 -84.9 0.24 (1)	6.25	J-G	-868/0	0.59 (1)
O-B	-1768/0	0.0 0.0 0.16 (1)	6.27	B-N	0/1993	0.45 (1)
I-H	-1697/0	0.0 0.0 0.42 (1)	5.10	J-H	0/1298	0.29 (1)
O-N	0/0	-38.5 -38.5 0.43 (3)	10.00			
N-M	0/1977	-38.5 -38.5 0.88 (2)	10.00			
M-L	0/1977	-38.5 -38.5 0.88 (2)	10.00			
L-K	0/1318	-38.5 -38.5 0.40 (2)	10.00			
K-J	0/715	-38.5 -38.5 0.26 (2)	10.00			
J-I	0/0	-38.5 -38.5 0.16 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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) = $L/360$ (0.86")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.14")
ALLOWABLE DEFL.(TL) = $L/360$ (0.86")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.23")

CSI: TC=0.84/1.00 (B-C:1), BC=0.88/1.00 (L-N:2),
WB=0.59/1.00 (G-J:1), SSI=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

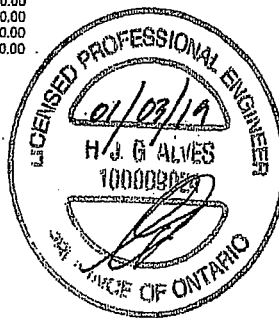
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

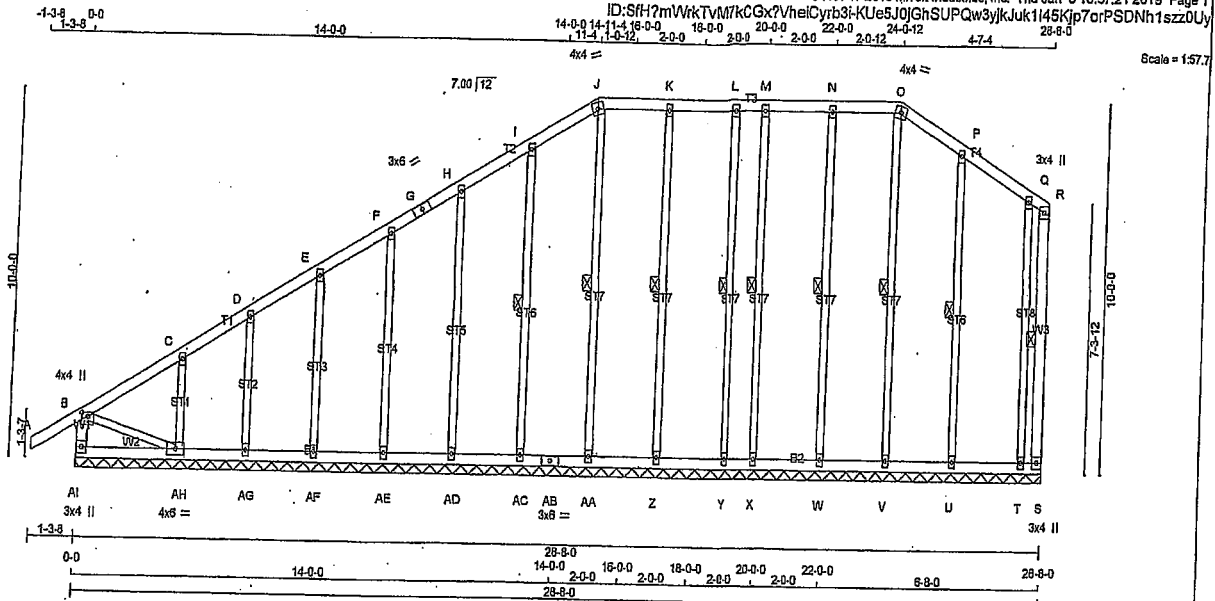
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (K) (INPUT = 0.90)
JSI METAL = 0.55 (M) (INPUT = 1.00)



DRWG NO. TAM 71100128
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300800	G33	1	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					



TOTAL WEIGHT = 167 lb [M]

LUMBER	SIZE	LUMBER	DESCR.
N. L. G. A. RULES			
CHORDS			
AI - B	2x4 DRY	No.2	SPF
A - G	2x4 DRY	No.2	SPF
G - J	2x4 DRY	No.2	SPF
J - O	2x4 DRY	No.2	SPF
O - R	2x4 DRY	No.2	SPF
S - R	2x4 DRY	No.2	SPF
AI - AB	2x4 DRY	No.2	SPF
AB - S	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 in inches)	W	LEN	Y	X
JT TYPE				
B TMVW+p	MT20	4.0	4.0	1.25 2.00
C, D, E, F, H, I, K, L, M, N, P, Q				
C TMVW+p	MT20	2.0	4.0	
G TS-I	MT20	3.0	6.0	
J TTW-m	MT20	4.0	4.0	
O TTW-m	MT20	4.0	4.0	
R TMV+p	MT20	3.0	4.0	
S BMV1+p	MT20	3.0	4.0	
T, U, V, W, X, Y, Z, AA, AC, AD, AE, AF, AG				
T BMV1+w	MT20	2.0	4.0	
AB BS-I	MT20	3.0	6.0	
AI BMVW1-I	MT20	4.0	6.0	
AI BMV1+p	MT20	3.0	4.0	

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.
 PROVIDE ANCHORAGE AT BEARING JOINTS FOR 150 LBS. FACTORED UPLIFT 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.
 1. LATERAL BRACE(S) AT 1/2 LENGTH OF R-S, I-AC, J-AA, K-Z, L-Y, M-X, N-W, O-V, P-U.

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS	WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO (LC)
FR-TO			
AI-B	-232/0	0.0	0.0 0.02 (1)
A-B	0/25	-84.9	-84.9 0.11 (1)
B-C	-5/0	-84.9	-84.9 0.09 (1)
C-D	-21/0	-84.9	-84.9 0.09 (1)
D-E	-3/0	-84.9	-84.9 0.04 (1)
E-F	-3/0	-84.9	-84.9 0.04 (1)
F-G	0/0	-84.9	-84.9 0.04 (1)
G-H	0/0	-84.9	-84.9 0.04 (1)
H-I	0/3	-84.9	-84.9 0.05 (1)
I-J	-5/0	-84.9	-84.9 0.04 (1)
J-K	0/5	-84.9	-84.9 0.05 (1)
K-L	0/4	-84.9	-84.9 0.05 (1)
L-M	0/4	-84.9	-84.9 0.05 (1)
M-N	0/4	-84.9	-84.9 0.05 (1)
N-O	0/5	-84.9	-84.9 0.05 (1)
O-P	-6/0	-84.9	-84.9 0.05 (1)
P-Q	0/8	-84.9	-84.9 0.05 (1)
Q-R	0/11	-84.9	-84.9 0.02 (1)
S-R	-2/0	0.0	0.0 0.00 (1)
AI-AH	0/0	-38.5	-38.5 0.08 (3)
AH-AG	0/8	-38.5	-38.5 0.08 (3)
AG-AF	0/5	-38.5	-38.5 0.03 (3)
AF-AE	0/2	-38.5	-38.5 0.03 (3)
AE-AD	0/0	-38.5	-38.5 0.02 (3)
AD-AC	-1/0	-38.5	-38.5 0.02 (3)
AC-AB	-3/0	-38.5	-38.5 0.02 (3)
AB-AA	-3/0	-38.5	-38.5 0.02 (3)
AA-Z	-4/0	-38.5	-38.5 0.03 (3)
Z-Y	-4/0	-38.5	-38.5 0.03 (3)
Y-X	-4/0	-38.5	-38.5 0.02 (3)
X-W	-4/0	-38.5	-38.5 0.03 (3)
W-V	-4/0	-38.5	-38.5 0.03 (3)
V-U	-3/0	-38.5	-38.5 0.03 (3)
U-T	-1/0	-38.5	-38.5 0.03 (3)
T-S	0/0	-38.5	-38.5 0.02 (3)

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 23.3 PSF
 DL = 6.0 PSF
 BOT CH. LL = 10.5 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 46.8 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 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
 - PART 9 OF CBC 2018, CBC 2012
 - CSA 086-09, CSA 086-14
 - TPIC 2011, 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=0.11/1.00 (A-B-1), BC=0.08/1.00 (AG-AH-3), WS=0.18/1.00 (H-AD-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

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

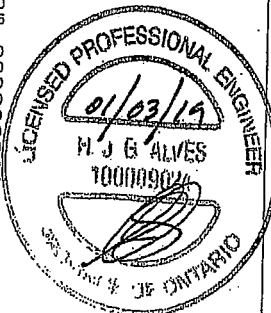
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (FLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.80 (J) (INPUT = 0.90)
 JSI METAL=0.12 (C) (INPUT = 1.00)

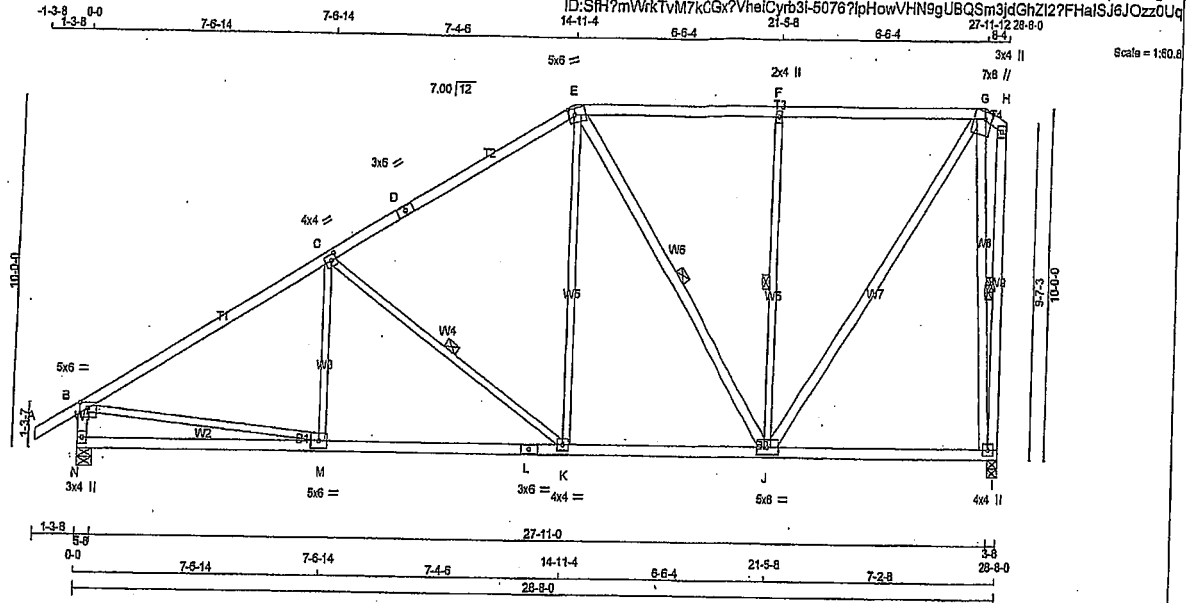
DRWG NO. TAM 11900121
 STRUCTURAL
 COMMENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300800	T34	7	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID: Sfh?mVrkTvm7kCGx?VheICyrb3i-5076?lpHowVHNsgUBQSm3jdGhZ12?FHaISJ6JOzzOUq



TOTAL WEIGHT = 7 X 151 = 1055 lb
[M/F]

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

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	2.00	2.75
C	TMVW-t	MT20	4.0	4.0	2.00	1.75
D	TS-t	MT20	3.0	8.0		
E	TTVW-m	MT20	5.0	6.0	2.25	2.00
F	TMVW-w	MT20	2.0	4.0		
G	TTVW+m	MT20	7.0	8.0	Edge 2.50	
H	TMVW-p	MT20	3.0	4.0		
I	BMVW1+p	MT20	4.0	4.0		
J	BMVW1-t	MT20	5.0	8.0		
K	BMVW1-t	MT20	4.0	4.0		
L	BS-t	MT20	3.0	6.0		
M	BMVW-t	MT20	5.0	6.0		
N	BMV1+p	MT20	3.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
N	1884	0	1884	0	0	5-8	5-8	5-8	5-8
I	1768	0	1768	0	0	3-8	3-8	3-8	3-8

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	DEAD	SOIL
N	1421	731 / 0	301 / 0	0 / 0	0 / 0	389 / 0	0 / 0	0 / 0	0 / 0
I	1341	688 / 0	301 / 0	0 / 0	0 / 0	373 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.60 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING		TOTAL LOAD CASES: (4)		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	MEMB.
FR-TO		FROM	LENGTH	FR-TO			
A-B	0 / 29	-84.9	-84.9 0.11 (1)	10.00	M-C	0 / 295	0.07 (3)
B-C	-2250 / 0	-84.9	-84.9 0.84 (1)	3.60	C-K	-820 / 0	0.49 (1)
C-D	-1558 / 0	-84.9	-84.9 0.71 (1)	4.33	K-E	0 / 736	0.17 (2)
D-E	-1558 / 0	-84.9	-84.9 0.71 (1)	4.33	E-J	-486 / 0	0.37 (1)
E-F	-1047 / 0	-84.9	-84.9 0.48 (1)	5.47	J-F	-685 / 0	0.47 (1)
F-G	-1047 / 0	-84.9	-84.9 0.48 (1)	5.47	B-M	0 / 1993	0.45 (1)
G-H	0 / 0	-84.9	-84.9 0.01 (1)	10.00	G-I	-1630 / 0	0.80 (1)
H-I	-1767 / 0	0.0	0.0 0.18 (1)	6.27	J-G	0 / 1670	0.27 (1)
I-H	-29 / 0	0.0	0.0 0.01 (1)	6.25			
N-M	0 / 0	-38.5	-38.5 0.42 (3)	10.00			
M-L	0 / 1976	-38.5	-38.5 0.68 (2)	10.00			
L-K	0 / 1976	-38.5	-38.5 0.68 (2)	10.00			
K-J	0 / 1319	-38.5	-38.5 0.52 (2)	10.00			
J-I	0 / 116	-38.5	-38.5 0.36 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.96")
CALCULATED VERT. DEFL.(LL) = L/699 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (0.96")
CALCULATED VERT. DEFL.(TL) = L/699 (0.23")

CSI: TC=0.84/1.00 (B-C:1), BC=0.68/1.00 (K-M:2), WB=0.60/1.00 (G-I:1), SS=0.27/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

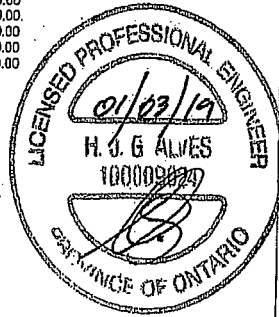
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES		PLATE GRIP(DRY) SHEAR SECTION	
(PSI)	(PLI)	(PSI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1657 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)
JSI METAL = 0.55 (L) (INPUT = 1.00)

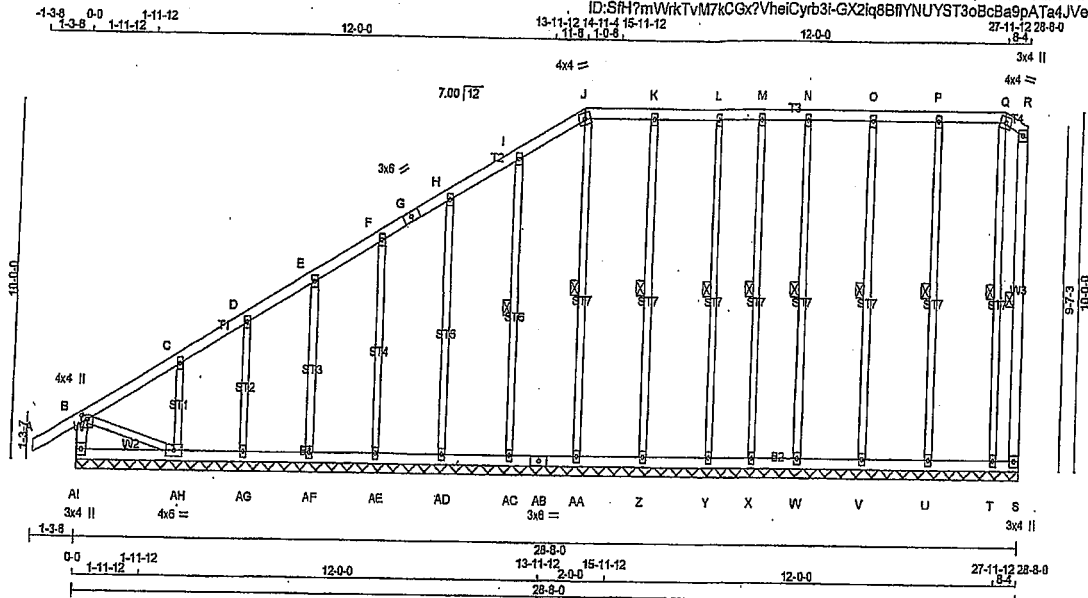


DWG NO. TAM 71900/129
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300799	G34	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID: SM7mWkTvM7kCGx7VheICyrb3i-GX2lq8BfYUYST3oBcBaSpAt4JvFLS1nuvXzz0ao



Scale = 1/8" = 1'-0"

LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N. L. G. A. RULES				
A - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
J - Q	2x4	DRY	No.2	SPF
Q - R	2x4	DRY	No.2	SPF
AI - B	2x4	DRY	No.2	SPF
S - R	2x4	DRY	No.2	SPF
AI - AB	2x4	DRY	No.2	SPF
AB - S	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
B TMW+P	MT20	4.0	4.0	1.25 2.00
C D, E, F, H, I, K, L, M, N, O, P				
C TMW+P	MT20	2.0	4.0	
G TS-t	MT20	3.0	6.0	
J TTW-m	MT20	4.0	4.0	
Q TTW-m	MT20	4.0	4.0	
R TMV+P	MT20	3.0	4.0	
S BMV+P	MT20	3.0	4.0	
T, U, V, W, X, Y, Z, AA, AC, AD, AE, AF, AG				
T BMV1+P	MT20	2.0	4.0	
AB BS-t	MT20	3.0	6.0	
AH BMWV1-t	MT20	4.0	6.0	
AF BMV1+P	MT20	3.0	4.0	

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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF R-S, Q-T, P-U, O-V, N-W, L-Y, K-Z, J-AA, I-AC, M-X.

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO (LC)
A-B	0/29	-84.9	-84.9 0.11 (1)
B-C	-9/0	-84.9	-84.9 0.09 (1)
C-D	-25/0	-84.9	-84.9 0.09 (1)
D-E	-7/0	-84.9	-84.9 0.04 (1)
E-F	-7/0	-84.9	-84.9 0.04 (1)
F-G	-4/0	-84.9	-84.9 0.04 (1)
G-H	-4/0	-84.9	-84.9 0.04 (1)
H-I	-1/0	-84.9	-84.9 0.04 (1)
I-J	-9/0	-84.9	-84.9 0.04 (1)
J-K	0/1	-84.9	-84.9 0.05 (1)
K-L	0/1	-84.9	-84.9 0.05 (1)
L-M	0/1	-84.9	-84.9 0.03 (1)
M-N	0/1	-84.9	-84.9 0.03 (1)
N-O	0/1	-84.9	-84.9 0.04 (1)
O-P	0/1	-84.9	-84.9 0.05 (1)
P-Q	0/1	-84.9	-84.9 0.05 (1)
Q-R	0/0	-84.9	-84.9 0.01 (1)
AI-B	-235/0	0.0	0.0 0.02 (1)
S-R	-29/0	0.0	0.0 0.01 (1)
AI-AH	0/0	-38.5	-38.5 0.06 (3)
AH-AG	0/11	-38.5	-38.5 0.06 (3)
AG-AF	0/8	-38.5	-38.5 0.03 (3)
AF-AE	0/6	-38.5	-38.5 0.03 (3)
AE-AD	0/4	-38.5	-38.5 0.02 (3)
AD-AC	0/2	-38.5	-38.5 0.02 (3)
AC-AB	0/0	-38.5	-38.5 0.02 (3)
AB-AA	0/0	-38.5	-38.5 0.02 (3)
AA-Z	-1/0	-38.5	-38.5 0.02 (3)
Z-Y	-1/0	-38.5	-38.5 0.02 (3)
Y-X	-1/0	-38.5	-38.5 0.02 (3)
X-W	-1/0	-38.5	-38.5 0.02 (3)
W-V	-1/0	-38.5	-38.5 0.02 (3)
V-U	-1/0	-38.5	-38.5 0.02 (3)
U-T	-1/0	-38.5	-38.5 0.02 (3)
T-S	0/0	-38.5	-38.5 0.02 (3)

TOTAL WEIGHT = 172 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 46.8 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 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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=0.11/1.00 (A-B:1), BC=0.08/1.00 (AG-AH:3), WB=0.18/1.00 (H-AD:1), SSI=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION (PS) (PL) (PL)

MAX MIN MAX MIN MAX MIN

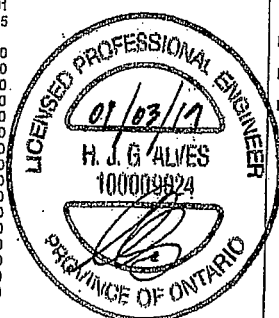
MT20 618 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP = 0.80 (J) (INPUT = 0.80)

SI METAL = 0.12 (C) (INPUT = 1.00)

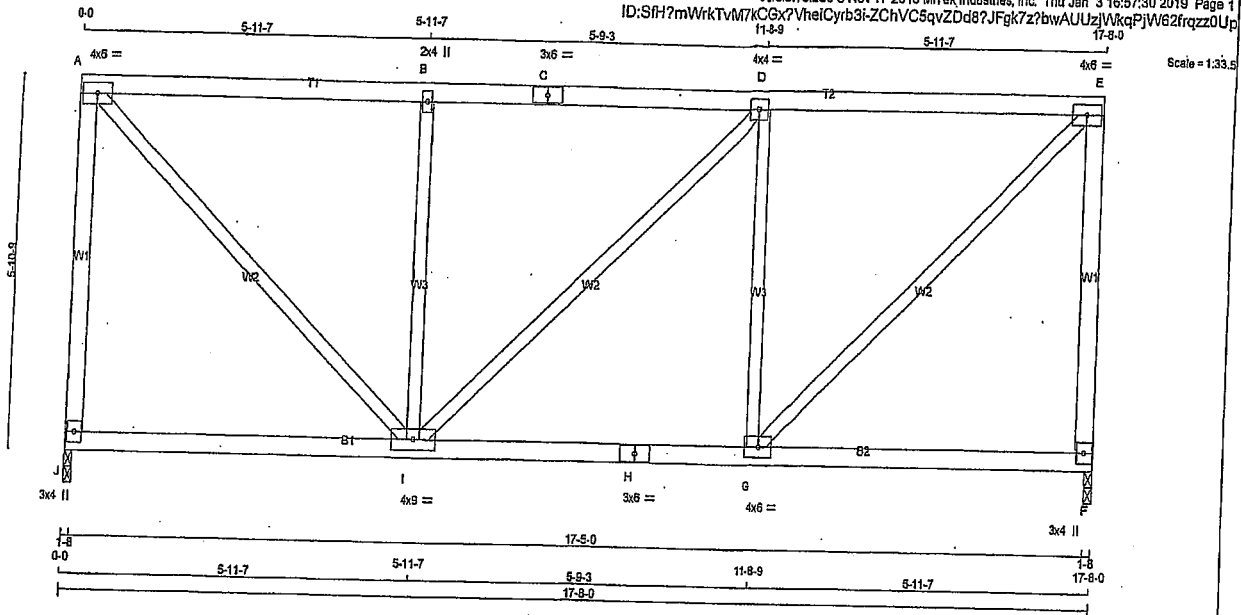


DWG NO. TAM T1900114
STRUCTURAL
COMPONENT ONLY

JOB NAME 300800	TRUSS NAME T36	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID: Sfh7mWrkTvm7KCGx?VheICyrb3iZChVCsqvZDd8?JFgk7z?bwAUUzjWkqPjW62frqzz0Up



TOTAL WEIGHT = 80.1b

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

ALL WEBS 2x3 DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	6.0		
B	TMVW-w	MT20	2.0	4.0		
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	6.0		
F	BMV1+p	MT20	3.0	4.0		
G	BMVW-t	MT20	4.0	6.0		
H	BS-t	MT20	3.0	6.0		
I	BMVW-t	MT20	4.0	6.0		
J	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
J	1090	0	0	1-8
F	1090	0	0	1-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	827	411/0	186/0	0/0	0/0	230/0	0/0
F	827	411/0	186/0	0/0	0/0	230/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.02 FT.
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	VERT. LOAD	LC1	MAX	MEMB.	FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)	(LC)		(LBS)	CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
J-A	-998/0	0.0	0.0	0.65 (1)	G-E	0/1157	0.28 (1)		
A-B	-842/0	-84.9	-84.9	0.42 (1)	A-I	0/1155	0.28 (1)		
B-C	-842/0	-84.9	-84.9	0.42 (1)	G-D	-544/0	0.29 (1)		
C-D	-842/0	-84.9	-84.9	0.42 (1)	I-B	-544/0	0.29 (1)		
D-E	-843/0	-84.9	-84.9	0.42 (1)	I-D	-2/0	0.00 (1)		
E-F	-998/0	0.0	0.0	0.65 (1)					
J-I	0/0	-38.5	-38.5	0.24 (3)					
I-H	0/843	-38.5	-38.5	0.34 (2)					
H-G	0/843	-38.5	-38.5	0.34 (2)					
G-F	0/0	-38.5	-38.5	0.24 (3)					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	23.3	PSF
DL	=	6.0	PSF
BOT CH. LL	=	10.5	PSF
DL	=	7.0	PSF
TOTAL LOAD	=	46.8	PSF

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.59")
CALCULATED VERT. DEFL. (LL) = L/999 (0.06")
ALLOWABLE DEFL. (TL) = L/360 (0.59")
CALCULATED VERT. DEFL. (TL) = L/999 (0.09")

CSI: TC=0.65/1.00 (E-F-1), BC=0.34/1.00 (G-I-2),
WB=0.29/1.00 (D-G-1), SS=0.23/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

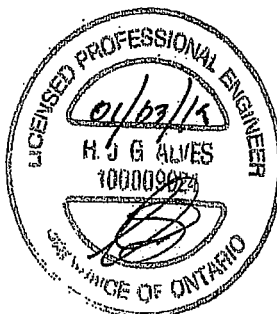
NAIL VALUES

PLATE GRIP (DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	618	354
	1887	788
	1887	1656

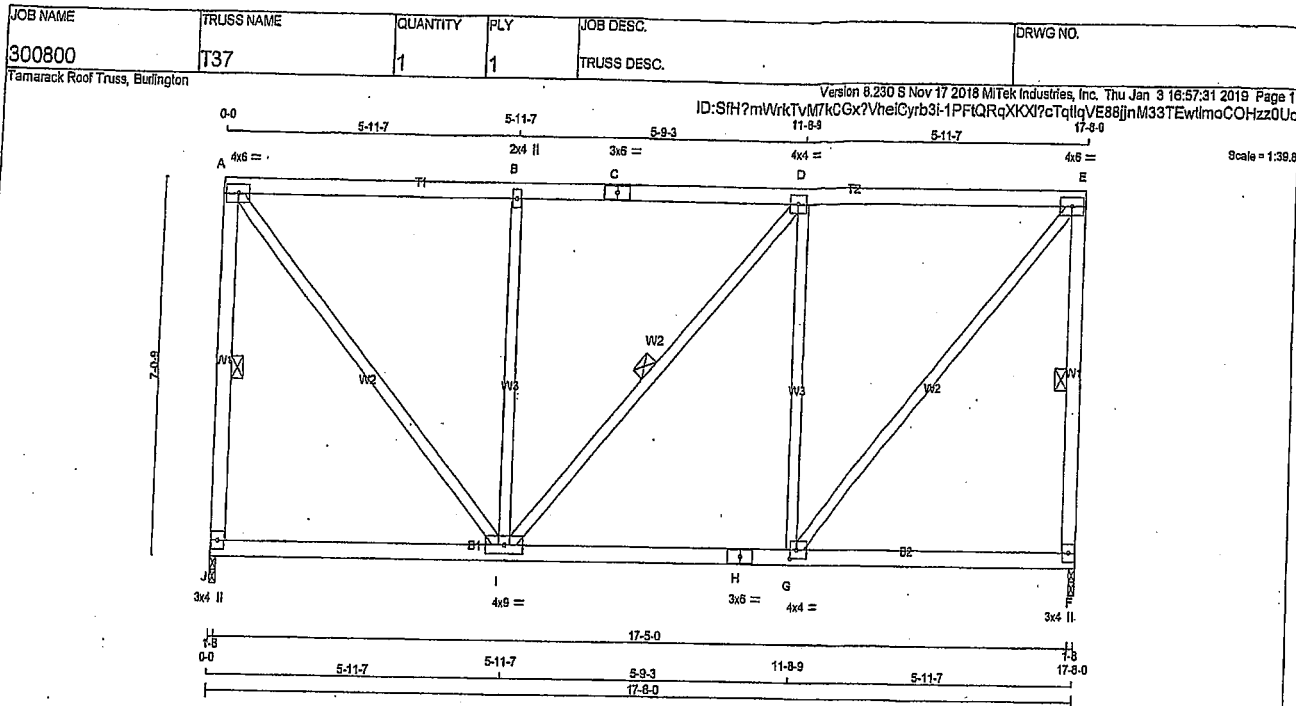
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.79 (G) (INPUT = 0.80)
JSI METAL = 0.29 (H) (INPUT = 1.00)



DRWG NO. TAM 119 001/31
STRUCTURAL
COMPONENT ONLY



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
J - A	2x4 DRY	No.2	SPF
A - C	2x4 DRY	No.2	SPF
C - E	2x4 DRY	No.2	SPF
E - G	2x4 DRY	No.2	SPF
G - H	2x4 DRY	No.2	SPF
H - F	2x4 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF
DRY: SEASONED LUMBER.			

PLATES (table ts in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	4.0	6.0		
B	TMVW-w	MT20	2.0	4.0		
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	BMV1+p	MT20	3.0	4.0		
G	BMVW-t	MT20	4.0	4.0	2.00	1.50
H	BS-t	MT20	3.0	6.0		
I	BMVW-t	MT20	4.0	4.0		
J	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
J	1080	0	1090	0	1-8	1-8
F	1080	0	1090	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
J	827	411/0	185/0	0/0	0/0	230/0	0/0
F	827	411/0	185/0	0/0	0/0	230/0	0/0

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-J, E-F, D-I.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD		MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED LENGTH FR-TO
		FROM	TO							
J-A	-996/0	0.0	0.0	0.22 (1)	6.25		G-E	0/1058	0.24 (1)	
A-B	-897/0	-84.9	-84.9	0.41 (1)	6.25		A-I	0/1054	0.24 (1)	
B-C	-897/0	-84.9	-84.9	0.42 (1)	6.25		G-D	-545/0	0.47 (1)	
C-D	-897/0	-84.9	-84.9	0.42 (1)	6.25		I-B	-544/0	0.46 (1)	
D-E	-898/0	-84.9	-84.9	0.42 (1)	6.25		I-D	-2/0	0.00 (1)	
E-F	-998/0	0.0	0.0	0.22 (1)	6.25					
J-I	0/0	-38.5	-38.5	0.24 (3)	10.00					
I-H	0/898	-38.5	-38.5	0.32 (2)	10.00					
H-G	0/898	-38.5	-38.5	0.32 (2)	10.00					
G-F	0/0	-38.5	-38.5	0.24 (3)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, 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 (0.59")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.59")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.42/1.00 (D-E:1), BC=0.32/1.00 (G-I:2),
WB=0.47/1.00 (D-G:1), CSI=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

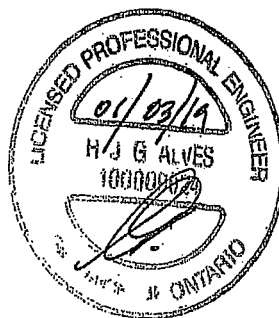
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (3) (INPUT = 0.90)
JSI METAL = 0.29 (4) (INPUT = 1.00)



DRWG NO. TAM 1900132
STRUCTURAL
CONSTRUCTION ONLY

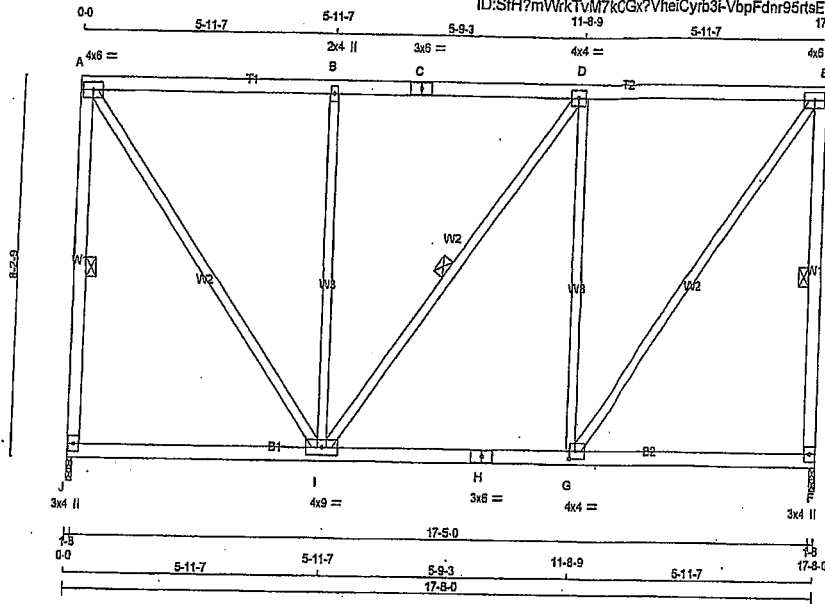
JOB NAME 300800	TRUSS NAME T38	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:SFH7mWkTVM7kCGX7VheICyrb3i-VbpFdnr95tsEdP3sY0TgLFucmPWCdF0_QXmwjzz0Un

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



TOTAL WEIGHT = 93 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
J - A	2x4 DRY	No.2	SPF
A - C	2x4 DRY	No.2	SPF
C - E	2x4 DRY	No.2	SPF
E - H	2x4 DRY	No.2	SPF
H - F	2x4 DRY	No.2	SPF

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

DESIGNER

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	JT VERT	IN-SX	IN-SX
J 1090 0	1090 0	1-8	1-8
F 1090 0	1090 0	1-8	1-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS	DEAD	SOIL
JT COMBINED	JT COMBINED	JT COMBINED	JT COMBINED
J 827 411/0	166/0	0/0	230/0
F 827 411/0	166/0	0/0	230/0

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

BRACING

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-J, E-F, D-I.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (FT)
J-A	-998/0	0.0	0.0	0.30 (1)	6.25	G-E	0/991	0.22 (1)			
A-B	-594/0	-84.9	-84.9	0.41 (1)	6.25	A-I	0/989	0.22 (1)			
B-C	-594/0	-84.9	-84.9	0.41 (1)	6.25	G-D	-545/0	0.72 (1)			
C-D	-594/0	-84.9	-84.9	0.41 (1)	6.25	I-D	-544/0	0.72 (1)			
D-E	-595/0	-84.9	-84.9	0.41 (1)	6.25	I-D	-2/0	0.00 (1)			
E-F	-997/0	0.0	0.0	0.30 (1)	6.25						
J-I	0/0	-38.5	-38.5	0.24 (3)	10.00						
I-H	0/595	-38.5	-38.5	0.31 (2)	10.00						
H-G	0/595	-38.5	-38.5	0.31 (2)	10.00						
G-F	0/0	-38.5	-38.5	0.24 (3)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 23.3 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, NBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.59")
CALCULATED VERT. DEFL. (LL) = L/999 (0.05")
ALLOWABLE DEFL. (TL) = L/360 (0.59")
CALCULATED VERT. DEFL. (TL) = L/999 (0.09")

CS: TC=0.41/1.00 (D-E-I), BC=0.31/1.00 (G-I-2), WB=0.72/1.00 (D-G-I), SI=0.23/1.00 (D-E-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

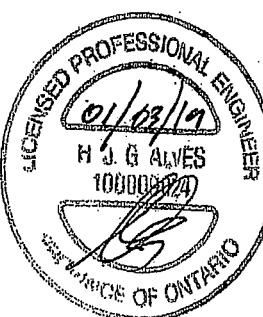
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (G) (INPUT = 0.80)
JSI METAL = 0.25 (G) (INPUT = 1.00)



DRWG NO. TAM 11900133
STRUCTURAL
COMPONENT ONLY

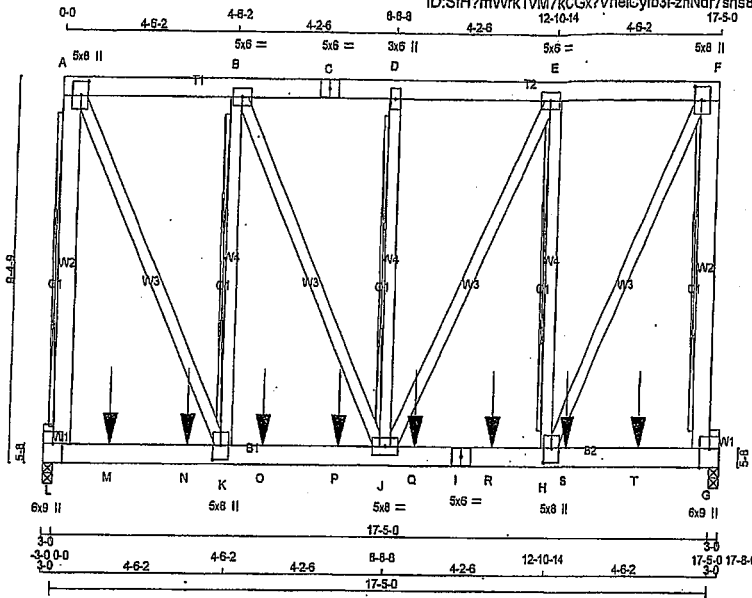
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300800	T39X	1	3	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:SH?mWkTvM7kCGx?VheiCyib3i-znNdr7sns8?ism_FQFXIDZo1JAhr9MAC4HJS9zz0Um

Scale = 1:51.8



TOTAL WEIGHT = 3 X 166 = 498 lb

LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
L - A	2x8	DRY	No.2	SPF
A - C	2x8	DRY	No.2	SPF
C - F	2x8	DRY	No.2	SPF
G - F	2x8	DRY	No.2	SPF
L - I	2x8	DRY	No.2	SPF
I - G	2x8	DRY	No.2	SPF

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
L-A 2	12	TOP
A-C 2	12	TOP
C-F 2	12	TOP
F-G 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
L-I 2	9	SIDE(451.2)
I-G 2	9	SIDE(451.2)
WEBS : (0.122"x3") SPIRAL NAILS		
2x4 1	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMVW+p	MT20	5.0	8.0	4.00	2.25
B TMVW-t	MT20	5.0	8.0		
C TS-t	MT20	5.0	8.0		
D TMW+w	MT20	3.0	8.0		
E TMVW-t	MT20	5.0	8.0		
F TMVW+p	MT20	5.0	8.0	4.00	2.25
G BMVW-t	MT20	6.0	9.0	Edge	3.00
H BMVW-t	MT20	5.0	8.0	4.25	2.50
I BS-t	MT20	5.0	8.0		
J BMVW-t	MT20	5.0	8.0		
K BMVW-t	MT20	5.0	8.0	4.25	2.50
L BMVW-t	MT20	6.0	9.0	Edge	3.00

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

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

FACTORED REACTIONS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								
BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQRD	
JT	VERT	GROSS REACTION	HORIZ	GROSS REACTION	HORIZ	UPLIFT	IN-SX	IN-SX
L	8175	0		8175	0	0	3-0	3-0
G	7811	0		7811	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	8177	3146/0	1332/0	0/0	0/0	1699/0	0/0
G	5902	3008/0	1273/0	0/0	0/0	1623/0	0/0

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

BRACING

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

2x6 DRY SPF No.2 T-BRACE AT A-L, F-G, E-H, B-K, D-J

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		LENGTH	FR-TO		
L-A	-6951/0	0.0	0.0	0.54 (1)	7.81	H-E	-2276/0	0.22 (1)
A-B	-3419/0	-84.9	-84.9	0.05 (1)	6.25	K-B	-2227/0	0.21 (1)
B-C	-4294/0	-84.9	-84.9	0.05 (1)	6.25	J-D	-387/0	0.04 (1)
C-D	-4294/0	-84.9	-84.9	0.05 (1)	6.25	H-F	0.17527	0.40 (1)
D-E	-4294/0	-84.9	-84.9	0.05 (1)	6.25	A-K	0.17527	0.40 (1)
E-F	-3396/0	-84.9	-84.9	0.05 (1)	6.25	J-E	0.17527	0.40 (1)
G-F	-6908/0	0.0	0.0	0.54 (1)	7.81	B-J		
L-M	0/0	-38.5	-38.5	0.42 (1)	10.00			
M-N	0/0	-38.5	-38.5	0.42 (1)	10.00			
N-K	0/0	-38.5	-38.5	0.42 (1)	10.00			
K-O	0/3419	-38.5	-38.5	0.56 (1)	10.00			
O-P	0/3419	-38.5	-38.5	0.56 (1)	10.00			
P-J	0/3419	-38.5	-38.5	0.56 (1)	10.00			
J-Q	0/3396	-38.5	-38.5	0.52 (1)	10.00			
Q-I	0/3396	-38.5	-38.5	0.52 (1)	10.00			
I-R	0/3396	-38.5	-38.5	0.52 (1)	10.00			
R-H	0/3396	-38.5	-38.5	0.52 (1)	10.00			
H-S	0/0	-38.5	-38.5	0.39 (1)	10.00			
S-T	0/0	-38.5	-38.5	0.39 (1)	10.00			
T-G	0/0	-38.5	-38.5	0.39 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEIG.	CONN.
M	1-5-12	-1730	-1730	---	BACK	VERT	TOTAL	---
N	3-5-12	-1730	-1730	---	BACK	VERT	TOTAL	---
O	5-5-12	-1730	-1730	---	BACK	VERT	TOTAL	---
P	7-5-12	-1730	-1730	---	BACK	VERT	TOTAL	---
Q	9-5-12	-1730	-1730	---	BACK	VERT	TOTAL	---
R	11-5-12	-1730	-1730	---	BACK	VERT	TOTAL	---
S	13-5-12	-1730	-1730	---	BACK	VERT	TOTAL	---

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2010, OBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(66% 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 (0.58")
CALCULATED VERT. DEFL. (LL) = L/999 (0.05")
ALLOWABLE DEFL. (TL) = L/360 (0.58")
CALCULATED VERT. DEFL. (TL) = L/999 (0.09")

CSI: TC=0.54/1.00 (A-L1), BC=0.58/1.00 (J-K1), WB=0.41/1.00 (A-K1), SSI=0.55/1.00 (G-H1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

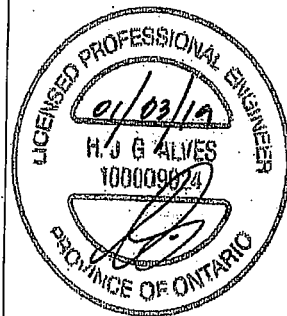
SI GRIP= 0.84 (A) (INPUT = 0.90)
SI METAL= 0.47 (A) (INPUT = 1.00)

DRWG NO. TAM 11900134
STRUCTURAL
CONVENT ONLY

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300800	T39X	1	3	TRUSS DESC.	
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Jan 3 16:57:33 2019 Page 2 ID:SfH7mWkTvm7kCGx?VheiCvrb3fznNdr7sns8?ism FQFXIDzo1JAhrx9MAC4HJS9zz0Um	

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
T	15-5-12	-1730	-1730	—	TOP	VERT	TOTAL	—	—



DWG NO. TAM 11900134
 STRUCTURAL
 CONFIDENTIAL ONLY *7/2*

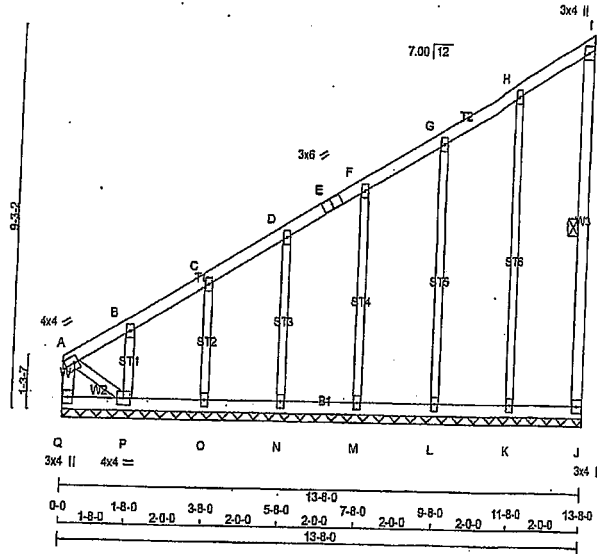
JOB NAME 300800	TRUSS NAME G40	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Thu Jan 3 16:57:23 2019 Page 1

0-0 1-8-0 2-0-0 3-8-0 5-8-0 7-8-0 9-8-0 11-8-0 13-8-0

Scale = 1:51.6



LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE			LUMBER
A - E	2x4	DRY		No.2
E - I	2x4	DRY		No.2
J - I	2x4	DRY		No.2
Q - A	2x4	DRY		No.2
Q - J	2x4	DRY		No.2

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

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

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

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

BEARINGS

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.

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

MEMB.	MAX. FACTORED FORCE (LBS)	CHORDS		MAX. FACTORED FORCE (LBS)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
		VERT. LOAD (PLF)	LC1 MAX (LC)		UNBRACED LENGTH FR-TO		
FR-TO							
A-B	-14/0	-84.9	-84.9 0.04 (1)	6.25	K-H	-180/0	0.24 (1)
B-C	-15/0	-84.9	-84.9 0.04 (1)	6.25	L-G	-168/0	0.14 (1)
C-D	-10/0	-84.9	-84.9 0.04 (1)	6.25	M-F	-169/0	0.09 (1)
D-E	-7/0	-84.9	-84.9 0.04 (1)	10.00	N-D	-168/0	0.05 (1)
E-F	-7/0	-84.9	-84.9 0.04 (1)	10.00	O-C	-168/0	0.03 (1)
F-G	-4/0	-84.9	-84.9 0.04 (1)	10.00	P-B	-165/0	0.03 (1)
G-H	0/0	-84.9	-84.9 0.04 (1)	10.00	A-P	0/22	0.01 (1)
H-I	-8/0	-84.9	-84.9 0.04 (1)	10.00			
I-J	-72/0	0.0	0.0 0.03 (1)	8.25			
Q-A	-73/0	0.0	0.0 0.01 (1)	7.81			
Q-P	0/0	-38.5	-38.5 0.02 (3)	10.00			
P-O	0/13	-38.5	-38.5 0.02 (3)	10.00			
O-N	0/9	-38.5	-38.5 0.02 (3)	10.00			
N-M	0/6	-38.5	-38.5 0.02 (3)	10.00			
M-L	0/4	-38.5	-38.5 0.02 (3)	10.00			
L-K	0/2	-38.5	-38.5 0.03 (3)	10.00			
K-J	0/0	-38.5	-38.5 0.03 (3)	10.00			

TOTAL WEIGHT = 68 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
DL = 6.0	PSF	
BOT CH.	LL = 10.5	PSF
DL = 7.0	PSF	
TOTAL LOAD	= 46.8	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

CSI: TC=0.04/1.00 (H-t:1), BC=0.03/1.00 (K-L:3), WB=0.24/1.00 (H-K:1), SSI=0.07/1.00 (H-t: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

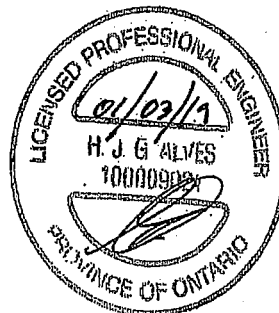
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618	354	1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (H) (INPUT = 0.90)

JSI METAL= 0.09 (H) (INPUT = 1.00)



DRWG NO. TAM 11900123
STRUCTURAL
COMPONENT ONLY

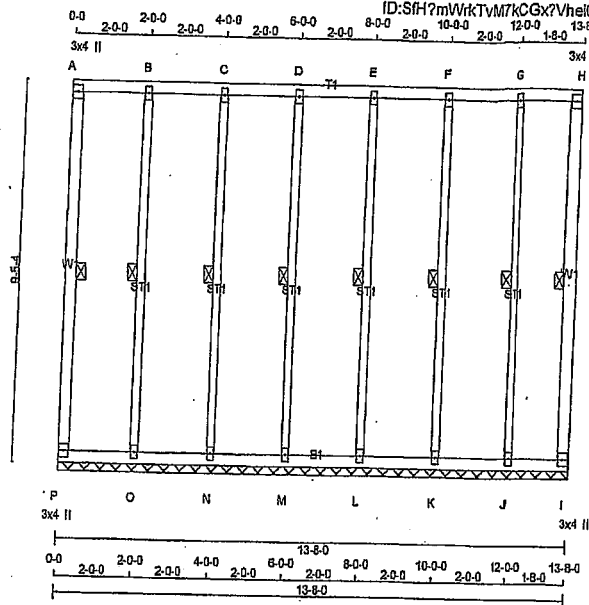
JOB NAME 300800	TRUSS NAME G41	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Thu Jan 3 16:57:24 2019 Page 1

ID: Sfh7mWrtVM7KCGx7VheICyrb3f-k2KDy2l8ZnL_HOoXOstbMfwCYlOKAcr8AbleBzz0Uv

Scale = 1:52.7



LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
P - A	2x4	DRY	No.2
A - H	2x4	DRY	No.2
I - H	2x4	DRY	No.2
P - I	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
A TMV+p	MT20	3.0	4.0		
B, C, D, E, F, G					
B TMV+w	MT20	2.0	4.0		
H TMV+p	MT20	3.0	4.0		
I BMV1+p	MT20	3.0	4.0		
J, K, L, M, N, O					
J BMV1+w	MT20	2.0	4.0		
P BMV1+p	MT20	3.0	4.0		

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 = 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-P, H-I, B-O, C-N, D-M, E-L, F-K, G-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				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LBS)	MEMB.	FORCE (LBS)	MAX. FACTORED (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
P-A	-74 / 0	0.0	0.0 (1)	0.25	O-B	-180 / 0	0.11 (1)
A-B	-1 / 0	-84.9	-84.9 (1)	10.00	N-C	-170 / 0	0.10 (1)
B-C	-1 / 0	-84.9	-84.9 (1)	10.00	M-D	-170 / 0	0.10 (1)
C-D	-1 / 0	-84.9	-84.9 (1)	10.00	L-E	-169 / 0	0.10 (1)
D-E	-1 / 0	-84.9	-84.9 (1)	10.00	K-F	-174 / 0	0.10 (1)
E-F	-1 / 0	-84.9	-84.9 (1)	10.00	J-G	-161 / 0	0.09 (1)
F-G	-1 / 0	-84.9	-84.9 (1)	10.00			
G-H	-1 / 0	-84.9	-84.9 (1)	10.00			
H-I	-62 / 0	0.0	0.0 (1)	0.25			
P-O	0 / 1	-38.5	-38.5 (3)	10.00			
O-N	0 / 1	-38.5	-38.5 (3)	10.00			
N-M	0 / 1	-38.5	-38.5 (3)	10.00			
M-L	0 / 1	-38.5	-38.5 (3)	10.00			
L-K	0 / 1	-38.5	-38.5 (3)	10.00			
K-J	0 / 1	-38.5	-38.5 (3)	10.00			
J-I	0 / 1	-38.5	-38.5 (3)	10.00			

TOTAL WEIGHT = 95 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	46.8	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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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=0.04/1.00 (E-F:1), BC=0.03/1.00 (N-O:3), WB=0.11/1.00 (B-O:1), SSF=0.07/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

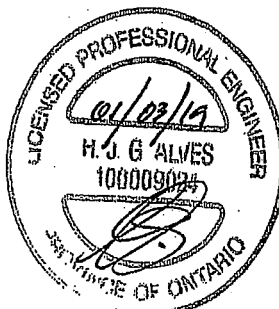
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 788	1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (O) (INPUT = 0.90)
JSI METAL= 0.04 (O) (INPUT = 1.00)



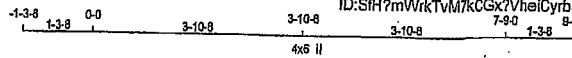
DRWG NO. TAM 779 00124
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300800	T42	1	1	TRUSS DESC.	

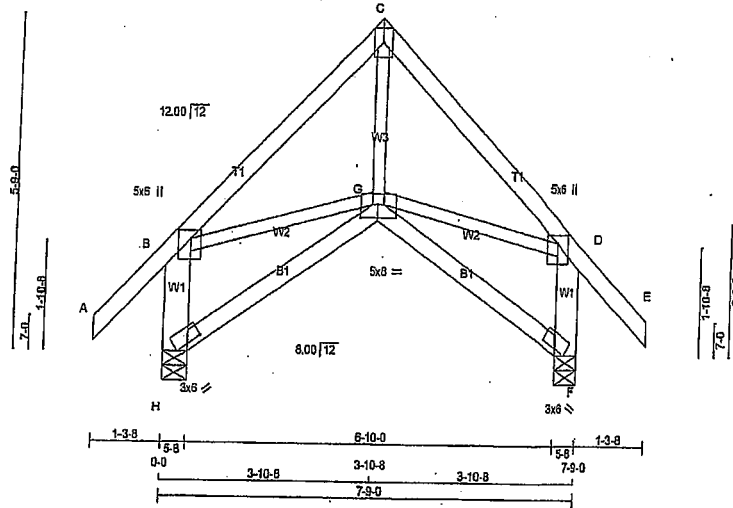
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Thu Jan 3 16:57:34 2019 Page 1

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Scale = 1/32



TOTAL WEIGHT = 42 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
H - B	2x6	DRY	No.2
F - D	2x6	DRY	No.2
H - G	2x4	DRY	No.2
G - 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	TMVV+p	MT20	5.0	6.0	1.75	2.75
C	TTVV+p	MT20	4.0	6.0		
D	TMVV+p	MT20	5.0	6.0	1.75	2.75
E	BVMH-I	MT20	3.0	6.0	0.50	3.00
F	BBWWV+p	MT20	5.0	8.0	2.75	4.00
H	BVMH-I	MT20	3.0	6.0	0.50	3.00

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
H	596	0	596	0
F	596	0	596	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERMIVE	WIND
H	444	245/0	81/0	0/0	0/0
F	444	245/0	81/0	0/0	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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
	(LBS)	(PLF)		(LBS)
FR-TO		FROM TO	FR-TO	
A-B	0/42	-84.9 -84.9 0.12 (1)	G-C	0/299
B-C	-424/0	-84.9 -84.9 0.17 (1)	B-G	0/306
C-D	-424/0	-84.9 -84.9 0.17 (1)	G-D	0/306
D-E	0/42	-84.9 -84.9 0.12 (1)		
H-B	-522/0	0.0 0.0 0.04 (1)		
F-D	-522/0	0.0 0.0 0.04 (1)		
H-G	0/0	-38.5 -38.5 0.14 (3)		
G-F	0/0	-38.5 -38.5 0.14 (3)		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 23.3 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 46.8 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCG 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBCG 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.17/1.00 (C-D:1), BC=0.14/1.00 (F-G:3), WB=0.07/1.00 (B-G:1), SS=0.09/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

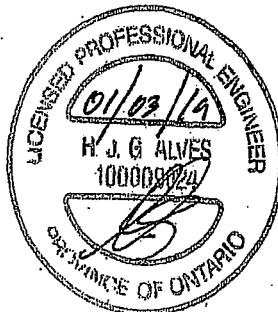
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (3) (INPUT = 0.80)
JSI METAL= 0.17 (D) (INPUT = 1.00)

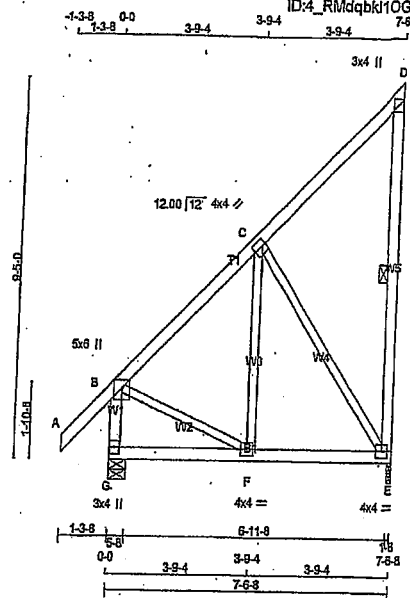


DRWG NO. TAM R990135
STRUCTURAL
CITY OF BURLINGTON

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300526	T140	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Tue Jan 15 10:45:27 2019 Page 1



Scale = 1:52.5

TOTAL WEIGHT = 2 X 47 = 94 lb

(MIF)

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER		DESCR
A - 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		2x3	DRY	No.2	SPF
EXCEPT					

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	6.0	Edge	
C TMVW-1	MT20	4.0	4.0	2.00	1.00
D TMV+p	MT20	3.0	4.0		
E BMVW-1	MT20	4.0	4.0		
F BMVW-1	MT20	4.0	4.0		
G BMV+p	MT20	3.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
E	465	0	0	1-8
G	584	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	353	178/0	79/0	0/0	0/0	88/0	0/0
G	435	241/0	79/0	0/0	0/0	115/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.25 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.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	CS1 (LC) UNBRAC LENGTH FR-TO	MEMB. FORCE (LBS)
FR-TO				
A-B	0/42	-84.9	-84.9 0.12 (1)	10.00
B-C	-263/0	-84.9	-84.9 0.16 (1)	6.25
C-D	-28/0	-84.9	-84.9 0.16 (1)	6.25
E-D	-121/0	0.0	0.0 0.05 (1)	9.25
G-B	-527/0	0.0	0.0 0.06 (1)	7.81
G-F	0/0	-38.5	-38.5 0.12 (3)	10.00
F-E	0/205	-38.5	-38.5 0.14 (2)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 PSF

SPACING = 24.0 IN. G.C.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015.

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.25")
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CS1: TO=0.16/1.00 (B-C:1), BC=0.14/1.00 (E-F:2),
WB=0.26/1.00 (C-E:1), SS1=0.11/1.00 (B-C:1)

COL 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

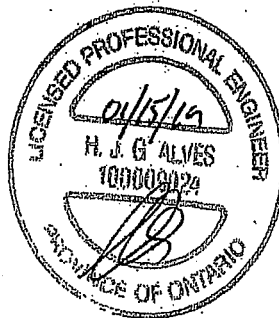
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 deg.

JSI GRIP= 0.27 (B) (INPUT= 0.90)
JSI METAL= 0.14 (B) (INPUT= 1.00)



DRWG NO. TAM 11901091
STRUCTURAL
FOR OFFICE USE ONLY

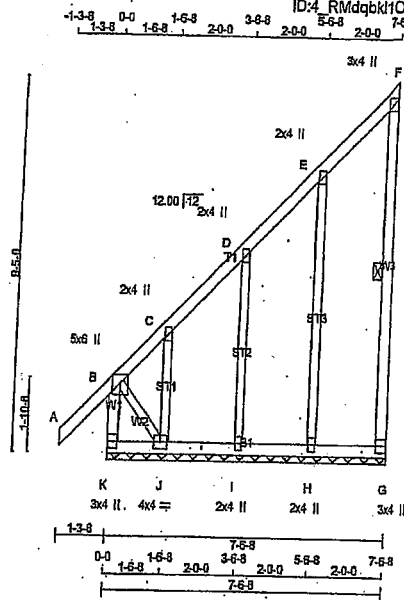
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300526	G140	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

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ID:4_RMDqbk1OG135Xnfrj7uyvEbu-2kHHUe0510vp0XrZLOePMjP?XAc9jwZfGCGzv8pd

Scale = 1:50.2



LUMBER	CHORDS	SIZE	LUMBER
A - F	2x4	DRY	No.2
G - F	2x4	DRY	No.2
K - B	2x4	DRY	No.2
K - G	2x4	DRY	No.2

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

GABLE STUDS SPACED AT 20-0 OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	5.0	6.0	Edge	
C, D, E					
C TMVW+p	MT20	2.0	4.0		
F TMV+p	MT20	3.0	4.0		
G BMV1+p	MT20	3.0	4.0		
H BMV1+w	MT20	2.0	4.0		
I BMV1+w	MT20	2.0	4.0		
J BMVW1-t	MT20	4.0	4.0		
K BMV1+p	MT20	3.0	4.0		

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

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

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

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

LOADING

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0/42	-84.9	-84.9 0.12 (1)	10.00	H-E	-189/0 0.18 (1)	
B-C	-49/0	-84.9	-84.9 0.11 (1)	6.25	I-D	-175/0 0.08 (1)	
C-D	-27/0	-84.9	-84.9 0.04 (1)	10.00	J-C	-82/0 0.02 (1)	
D-E	-37/0	-84.9	-84.9 0.05 (1)	10.00	B-J	0/13 0.00 (1)	
E-F	-11/0	-84.9	-84.9 0.05 (1)	6.25			
F-G	-73/0	0.0	0.0 0.03 (1)	6.25			
G-H	-249/0	0.0	0.0 0.03 (1)	7.81			
K-J	0/0	-38.5	-38.5 0.02 (3)	10.00			
J-I	0/8	-38.5	-38.5 0.02 (3)	10.00			
I-H	0/3	-38.5	-38.5 0.03 (3)	10.00			
H-G	0/0	-38.5	-38.5 0.03 (3)	10.00			

TOTAL WEIGHT = 2 X 48 = 96 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 40.8 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (A-B:1), EC=0.03/1.00 (H-I:3), WB=0.18/1.00 (E-H:1), SSI=0.07/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

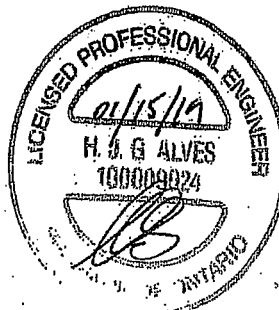
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1897 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

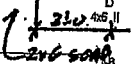


DRWG NO. TAM 11901092
STRUCTURAL
COMPONENT ONLY

Tamarack Roof Truss, Burlington

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10G3fXnfRj7uyvEbu-76P1vK2LZd9XxqsE5dOsJqnhICV0elQONf8NH9zv8pb

Scale = 1:52.8



DRY: SEASONED LUMBER.

CHORDS	#ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS			
A-C	1	12	TOP
C-D	1	12	TOP
G-A	2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS			
G-D	2	12	SIDE (183.1)
WEBBS : (0.122"x3") SPIRAL NAILS			
B-F	1	6	SIDE (464.6)
D4	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.

FACTORED		MAXIMUM FACTORED			INPUT	REQRD	
GROSS REACTION		GROSS REACTION			BRG	BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
JT	3997	0	3997	0	0	1-8	1-8 & BLOCK
D							
G	4382	0	4382	0	0	5-8	5-8

UNFACTORED REACTIONS

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

2x6 DRY SPF No.2 BEARING BLOCK ^{24"} LONG AT JT. D ATTACHED TO FRONT SIDE WITH 3 ROWS OF (0.122"x3") SPIRAL NAILS SPACED 3" C.C. ²⁴ NAILS TOTAL

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT C-D

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

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

LOADING

TOTAL LOAD CASES: (4)

G H O R D S				W E B B S			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	CS I (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CS I (LC)
FR-TO		FROM TO			FR-TO		
A-B	-3103/0	-84.9	-84.9 0.15 (1)	5.13	F-B	0/4679	0.43 (1)
B-C	-124/0	-84.9	-84.9 0.10 (1)	6.25	B-D	-3772/0	0.97 (1)
D-C	-125/0	0.0	0.0 0.04 (1)	7.71	A-F	0/2367	0.21 (1)
G-A	-3181/0	0.0	0.0 0.12 (1)	7.85			
G-H	0/0	-38.5	-38.5 0.64 (1)	10.00			
H-F	0/0	-38.5	-38.5 0.64 (1)	10.00			
F-I	0/2212	-38.5	-38.5 0.73 (1)	10.00			
I-E	0/2212	-38.5	-38.5 0.73 (1)	10.00			
E-D	0/2212	-38.5	-38.5 0.73 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LG1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
F	3-5-12	-2483	-2483	—	BACK	VERT	TOTAL	—	—
H	1-5-12	-2483	-2483	—	BACK	VERT	TOTAL	—	—
I	5-5-12	-2483	-2483	—	BACK	VERT	TOTAL	—	—

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	46.8	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.15/1.00 (A-B:1), BC=0.73/1.00 (D-F:1),
WB=0.97/1.00 (B-D:1), SSI=0.60/1.00 (D-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

	GRIP(DRY)		SHEAR		SECTION	
	(PSI)	(PLI)	(PLI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1667	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

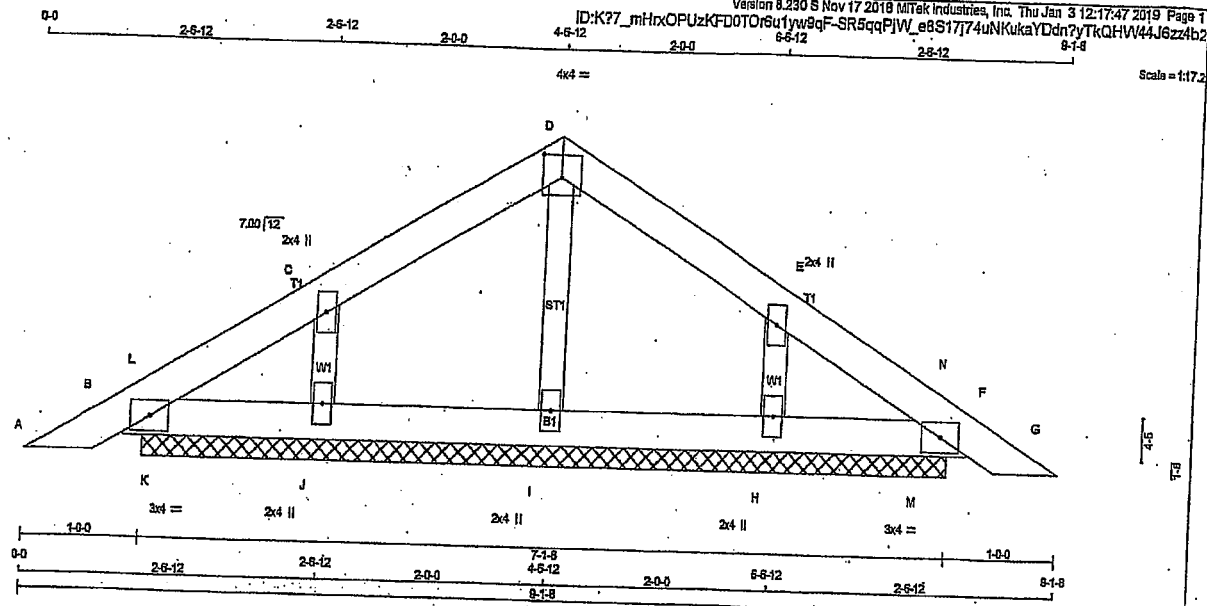
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.53 (F) (INPUT = 1.00)

DWG NO. TAM 11901090
STRUCTURAL
CONCRETE ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
300539	P1G	2	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Thu Jan 3 12:17:47 2019 Page 1
D0T0r6u1yw9qF-SR5qqPJW_e8S17J74uNKukaYDdn?yTkQHWW44I6z74b2



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
B - F	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	TMB1-I	MT20	3.0	4.0	
C	TMBV+V	MT20	2.0	4.0	
D	TTW-p	MT20	4.0	4.0	2.25 2.00
E	TMBV+V	MT20	2.0	4.0	
F	TMB1-I	MT20	3.0	4.0	
H, I, J					
H	BMV1+V	MT20	2.0	4.0	

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

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

BRACING

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

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LCH (PLF)	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0/15	-84.9	-84.9	0.04 (1)	10.00	I-D	-118/0 0.02 (1)		
B-L	-53/0	-84.9	-84.9	0.01 (2)	6.25	J-C	-188/0 0.03 (1)		
L-C	-21/0	-84.9	-84.9	0.05 (1)	6.25	H-E	-188/0 0.03 (1)		
C-D	-31/0	-84.9	-84.9	0.05 (1)	6.25	K-L	-11/17 0.00 (1)		
D-E	-31/0	-84.9	-84.9	0.05 (1)	6.25	M-N	-11/17 0.00 (1)		
E-N	-21/0	-84.9	-84.9	0.05 (1)	6.25				
N-F	-53/0	-84.9	-84.9	0.01 (2)	6.25				
F-G	0/15	-84.9	-84.9	0.04 (1)	10.00				
B-K	0/33	-38.5	-38.5	0.02 (1)	10.00				
K-J	0/33	-38.5	-38.5	0.03 (2)	10.00				
J-I	0/19	-38.5	-38.5	0.03 (2)	10.00				
I-H	0/19	-38.5	-38.5	0.03 (2)	10.00				
H-M	0/33	-38.5	-38.5	0.03 (2)	10.00				
M-F	0/33	-38.5	-38.5	0.02 (1)	10.00				

DESIGN CRITERIA

SPACING = 24.0 IN. C/C

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

CSI: TC=0.05/1.00 (D-E:1), BC=0.03/1.00 (J-K:2),
WB=0.03/1.00 (E-H:1), SS=0.07/1.00 (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

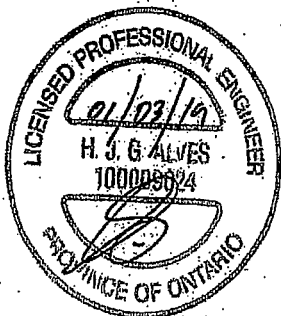
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES					
PLATE	GRIP(DRY) (FSI)		SHEAR (FLI)		SECTION (FLU)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	788	1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.12 (C) (INPUT = 0.90)
JSI METAL= 0.09 (C) (INPUT = 1.00)

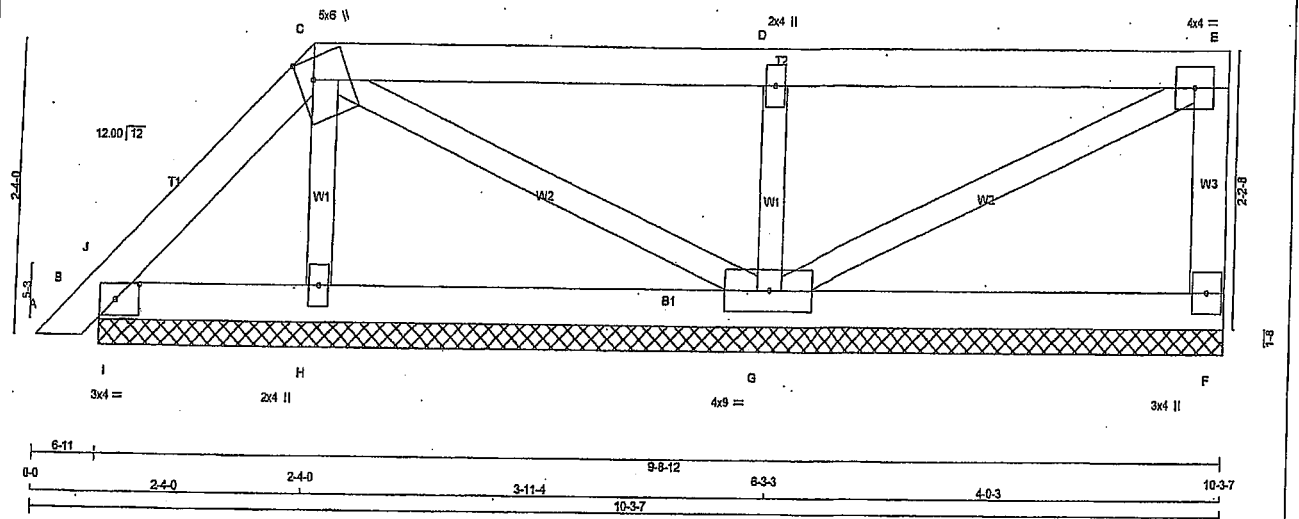


JOB NAME 300799	TRUSS NAME P10	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Jan 3 16:51:08 2019 Page 1
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Scale = 1:18.9



TOTAL WEIGHT = 2 X 35 = 70 lb

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
TM81-I	MT20	3.0	4.0	1.50 2.50
TTWV+m	MT20	5.0	6.0	2.00 1.50
TMV+w	MT20	2.0	4.0	
TMVW-I	MT20	4.0	4.0	
BMV1+p	MT20	3.0	4.0	
BMVWV1-t	MT20	4.0	9.0	
BMV1+w	MT20	2.0	4.0	

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
F	189	0	189	0
B	173	0	173	0
H	263	0	263	0
G	613	0	613	0

UNFACTORED REACTIONS	1ST CASE	MAX/MIN. COMPONENT REACTIONS
	COMBINED	SNOW
JT	144	70/0
F	124	84/0
B	207	81/0
H	462	239/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, B, 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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. MEMB. FORCE (LBS)	MAX. MEMB. FORCE (LBS)
FR-TO		FROM TO	LENGTH FR-TO	
A-B	0/12	-84.9 -84.9 0.01 (1)	10.00	H-C -132/0 0.02 (1)
B-J	-30/0	-84.9 -84.9 0.01 (1)	6.25	G-E -2/0 0.00 (1)
J-C	-58/0	-84.9 -84.9 0.03 (1)	6.25	C-G -38/0 0.01 (1)
C-D	0/2	-84.9 -84.9 0.23 (1)	10.00	G-D -421/0 0.06 (1)
D-E	0/2	-84.9 -84.9 0.23 (1)	10.00	I-J -110/0 0.00 (1)
E-F	-128/0	0.0 0.0 0.01 (1)	7.81	
B-I	0/38	-38.5 -38.5 0.04 (1)	10.00	
I-H	0/38	-38.5 -38.5 0.06 (2)	10.00	
H-G	0/31	-38.5 -38.5 0.12 (3)	10.00	
G-F	0/0	-38.5 -38.5 0.12 (3)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 5.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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=0.23/1.00 (C-D:1), BC=0.12/1.00 (G-H:3), WB=0.06/1.00 (D-G:1), SS=0.17/1.00 (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

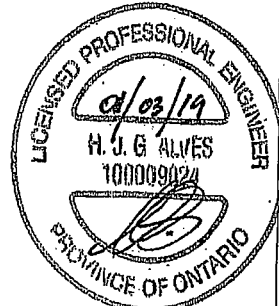
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1687 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (D) (INPUT = 0.90)
JSI METAL= 0.09 (D) (INPUT = 1.00)

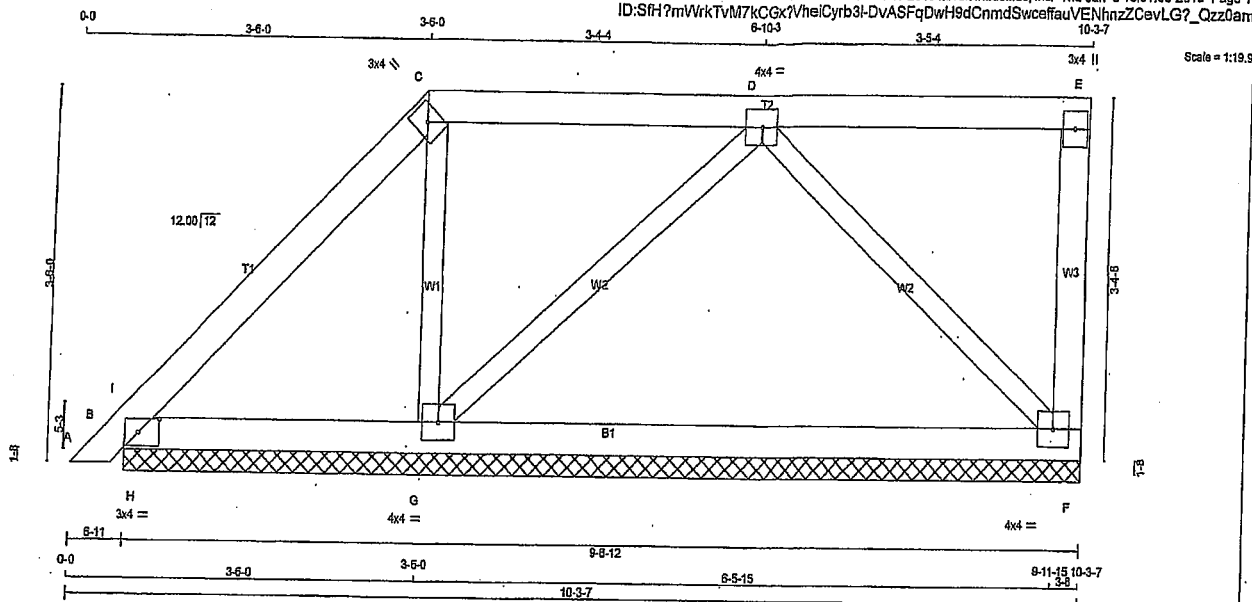


DWG NO. TAM 77000116
STRUCTURAL
COMPONENT ONLY

JOB NAME 300799	TRUSS NAME P11	QUANTITY 3	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Thu Jan 3 16:51:09 2019 Page 1
ID:SFH?mWrkTvm7kCGx?VheICyrb3l-DvASFqDwH9dCnmdSwceffauVENhHzZCevLG?_Qzz0am



TOTAL WEIGHT = 3 X 37 = 110 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
E - F	2x4	DRY No.2	SPF
B - F	2x4	DRY No.2	SPF

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

DESCR.

SPF

SPF

SPF

SPF

SPF

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

BEARINGS

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	JT VERT	IN-SX	IN-SX
F 395	0	9-8-12	9-8-12
B 180	0	9-8-12	9-8-12
G 654	0	9-8-12	9-8-12

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
F 295	162/0 54/0 0/0 0/0 78/0 0/0
B 130	107/0 0/-2 0/0 0/0 26/0 0/0
G 512	208/0 152/0 0/0 0/0 154/0 0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
FR-TO	(LBS)	(PLF)	MAX. LENGTH FR-TO	(LBS)
A-B	0/12	-84.9 -84.9 0.01 (1)	10.00	G-C -182/0 0.04 (1)
B-I	0/163	-84.9 -84.9 0.09 (1)	10.00	G-D -255/0 0.09 (1)
I-C	-46/1	-84.9 -84.9 0.08 (1)	6.25	D-F -271/0 0.09 (1)
C-D	-16/7	-84.9 -84.9 0.18 (1)	6.25	H-I -383/0 0.00 (1)
D-E	0/0	-84.9 -84.9 0.18 (1)	10.00	
F-E	-112/0	0.0 0.0 0.02 (1)	7.81	
B-H	-6/23	-38.5 -38.5 0.10 (1)	10.00	
H-G	-6/23	-38.5 -38.5 0.30 (3)	10.00	
G-F	0/202	-38.5 -38.5 0.32 (2)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BOBC 2018, OBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, 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 (C-D:1), BC=0.32/1.00 (F-G:2), WB=0.09/1.00 (D-F:1), SSI=0.28/1.00 (B-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

NAIL VALUES

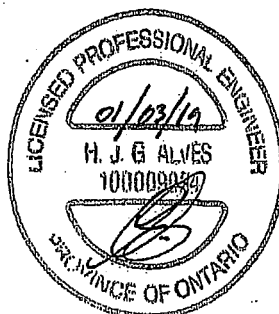
PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20.	618 354	1887 788

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

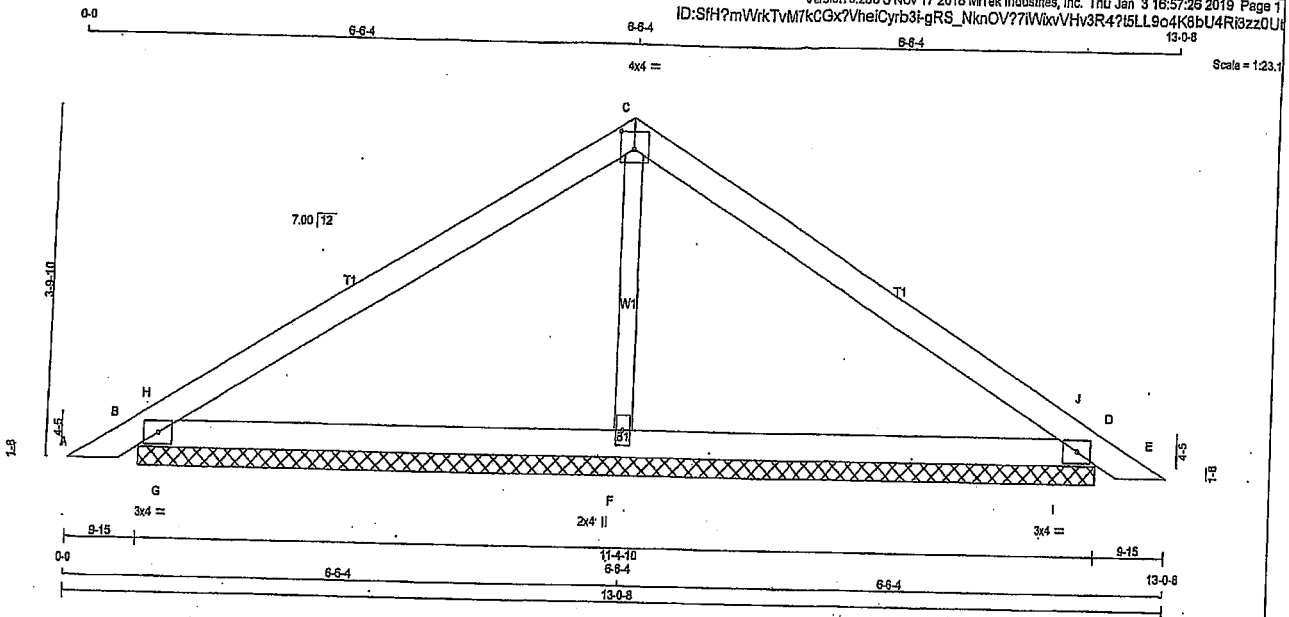
JSI GRIP= 0.31 (C) (INPUT = 0.80)

JSI METAL= 0.08 (F) (INPUT = 1.00)



DRWG NO. TAM 11900117
STRUCTURAL
COMPONENT ONLY

JOB NAME 300800	TRUSS NAME P12	QUANTITY 7	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Thu Jan 3 16:57:26 2019 Page 1 ID:SFH?mWkTvM7kCGx?VheICyrb3f-gRS_NknOV?7WVkvVHV3R475LL9o4K8bU4R3zz0U					
Scale = 1:23.1					



TOTAL WEIGHT = 7 X 33 = 229 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY

C - E 2x4 DRY

B - D 2x4 DRY

ALL WEBS 2x3 DRY

DRY, SEASONED LUMBER.

LUMBER

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

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

BEARINGS

JT	FACTORED		MAXIMUM FACTORED		INPUT		REQD	
	VERT	HORZ	DOWN	HORZ	BRG	BRG	IN-SX	IN-SX
B	486	0	486	0	0	0	11-4-10	11-4-10
D	486	0	486	0	0	0	11-4-10	11-4-10
F	560	0	560	0	0	0	11-4-10	11-4-10

UNFACTORED REACTIONS

JT	1ST LCASE		MAX / MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
B	359	209 / 0	58 / 0	0 / 0	0 / 0	92 / 0	0 / 0
D	359	209 / 0	58 / 0	0 / 0	0 / 0	92 / 0	0 / 0
F	436	193 / 0	124 / 0	0 / 0	0 / 0	130 / 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)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	MAX. FORCE	VERT. LOAD	VERT. LOAD	MAX. (PLF)	MAX. UNBRAC	MEMB. FORCE	MAX. (LBS)	MAX. (LBS)
FR-TO								
A-B	0 / 15	-84.9	-84.9	0.04 (1)	10.00	F-C	-188 / 0	0.04 (1)
B-H	-134 / 0	-84.9	-84.9	0.14 (1)	6.25	G-H	-534 / 54	0.00 (1)
H-C	-235 / 0	-84.9	-84.9	0.35 (1)	6.25	I-J	-534 / 54	0.00 (1)
C-J	-235 / 0	-84.9	-84.9	0.35 (1)	6.25			
J-D	-134 / 0	-84.9	-84.9	0.14 (1)	6.25			
D-E	0 / 15	-84.9	-84.9	0.04 (1)	10.00			
B-G	0 / 194	-36.5	-36.5	0.30 (1)	10.00			
G-F	0 / 194	-36.5	-36.5	0.37 (2)	10.00			
F-I	0 / 194	-36.5	-36.5	0.37 (2)	10.00			
I-D	0 / 194	-36.5	-36.5	0.30 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 46.8 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, 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=0.35/1.00 (C-H:1), BC=0.37/1.00 (F-G:2), WB=0.04/1.00 (C-F:1), SSI=0.44/1.00 (D-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.

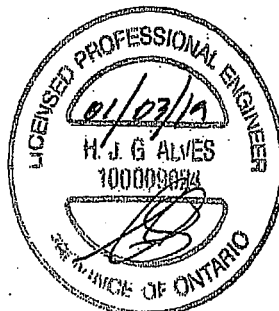
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLJ)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

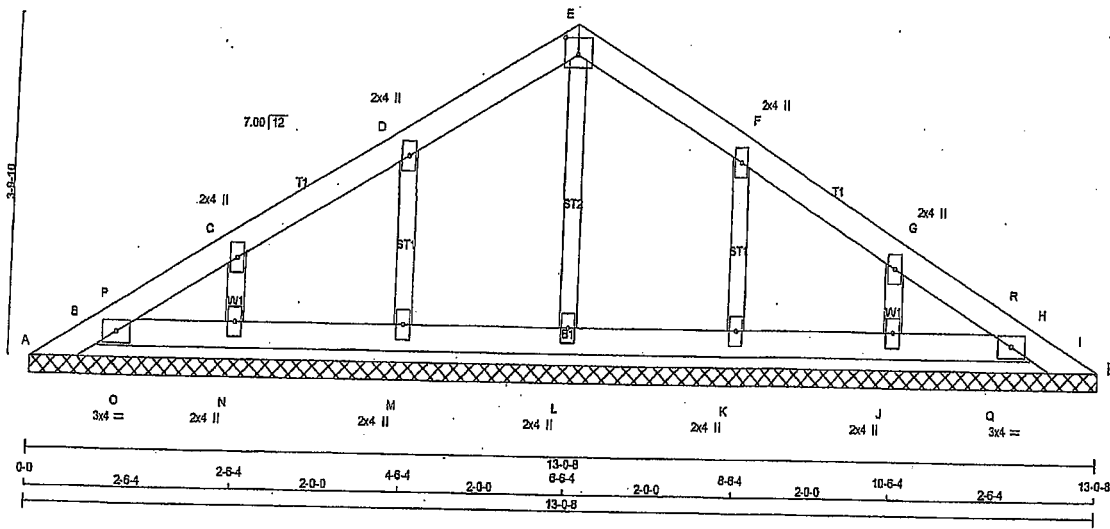
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.39 (D) (INPUT = 0.90)
JSI METAL= 0.11 (B) (INPUT = 1.00)



DRG NO. TAM 179 00126
STRUCTURAL
COMPONENT ONLY

JOB NAME 300800	TRUSS NAME P12G	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.230 S Nov 17 2018 MITek Industries, Inc. Thu Jan 3 16:57:26 2019 Page 1					
ID:SHF7mWrkTvM7kCGx7VheICyrb3f-gRS_NknOV77WkvVHv3R47ynLQV64T8bU4Rl3zz0U					
0-0 2-6-4 2-6-4 2-0-0 4-6-4 2-0-0 6-8-4 2-0-0 8-8-4 2-0-0 10-6-4 2-6-4 13-0-8					
4x4 =					
Scale: 1/2"=1'					



TOTAL WEIGHT = 37 lb

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

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMB1-I	MT20	3.0	4.0	
C, D, F, G				
C TMW+H	MT20	2.0	4.0	
E TTW-P	MT20	4.0	4.0	225 2.00
H TMB1-I	MT20	3.0	4.0	
J, K, L, M, N				
J BMW1+H	MT20	2.0	4.0	

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.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): L, M, K, J, N

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)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH FR-TO	LC1 MAX (LC)
A-B	0/8	-102.4	-102.4 0.02 (1)	10.00	L-E	-121/0	0.03 (1)
B-P	-67/0	-84.9	-84.9 0.02 (1)	6.25	M-D	-195/0	0.03 (1)
P-C	-28/0	-84.9	-84.9 0.03 (1)	6.25	K-F	-195/0	0.03 (1)
C-D	-22/0	-84.9	-84.9 0.05 (1)	6.25	J-G	-145/0	0.02 (1)
D-E	-28/0	-84.9	-84.9 0.05 (1)	6.25	N-C	-145/0	0.02 (1)
E-F	-28/0	-84.9	-84.9 0.05 (1)	6.25	O-P	0/25	0.00 (1)
F-G	-22/0	-84.9	-84.9 0.05 (1)	6.25	Q-R	0/25	0.00 (1)
G-H	-28/0	-84.9	-84.9 0.03 (1)	6.25			
H-I	-67/0	-84.9	-84.9 0.02 (1)	6.25			
I-J	0/8	-102.4	-102.4 0.02 (1)	10.00			
B-O	0/33	-38.5	-38.5 0.01 (1)	10.00			
O-N	0/33	-38.5	-38.5 0.03 (2)	10.00			
N-M	0/23	-38.5	-38.5 0.03 (3)	10.00			
M-L	0/16	-38.5	-38.5 0.03 (3)	10.00			
L-K	0/16	-38.5	-38.5 0.03 (3)	10.00			
K-J	0/23	-38.5	-38.5 0.03 (3)	10.00			
J-I	0/33	-38.5	-38.5 0.03 (2)	10.00			
Q-H	0/33	-38.5	-38.5 0.01 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 46.8 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2010, OBC 2012
- CSA 089-09, CSA 086-14
- TPIC 2011, 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=0.05/1.00 (D-E-1), BC=0.03/1.00 (J-K-3), WB=0.03/1.00 (F-K-1), SSI=0.07/1.00 (E-F-1)

DOL LUMBER=1.00 NAIL=1.00 L.S BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES				
PLATE	GRIP(DRY)	SHEAR	SECTION	
(PSI)	(PLI)	(PLI)		
MAX MIN	MAX MIN	MAX MIN		
MT20	618 354	1857 788	1987 1658	

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.13 (D) (INPUT = 0.90)

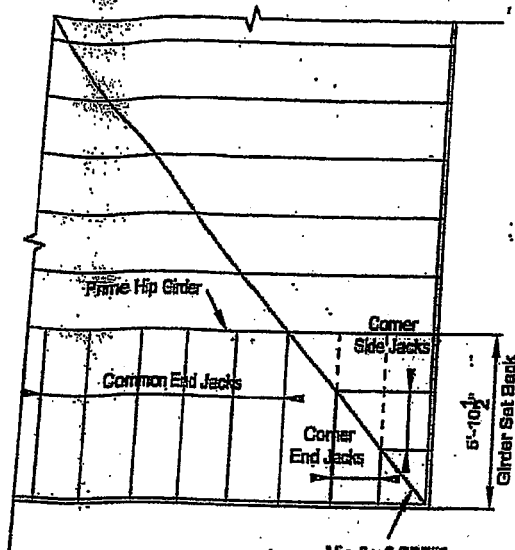
JSI METAL= 0.09 (D) (INPUT = 1.00)



DRWG NO. TAM 779 00127

STRUCTURAL

COMPANION ONLY



45° Hip End

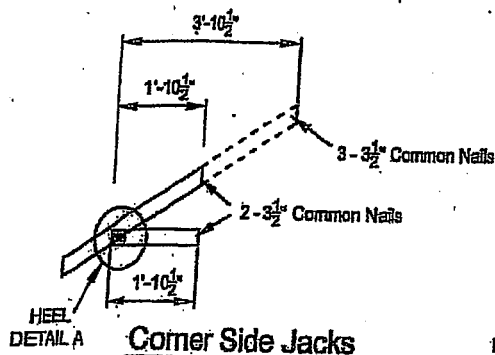
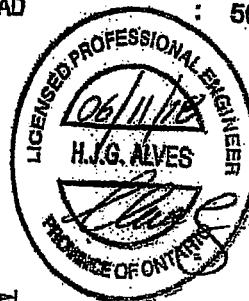
Min. 2 x 6 SPF#2
Ridge Board

LUMBER SPECIFICATION

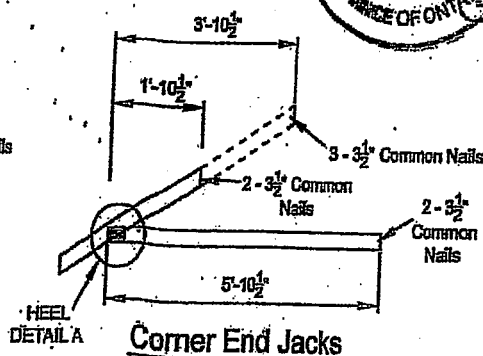
TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

DESIGN LOAD

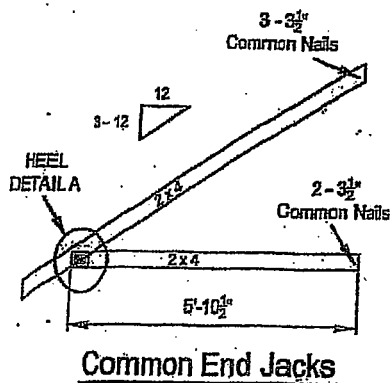
TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.
 TOTAL LOAD : 50.5 P.S.F.



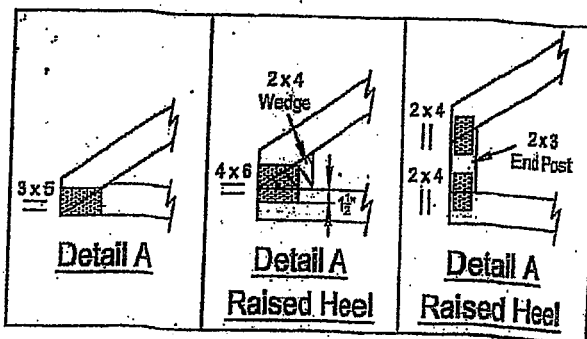
Corner Side Jacks

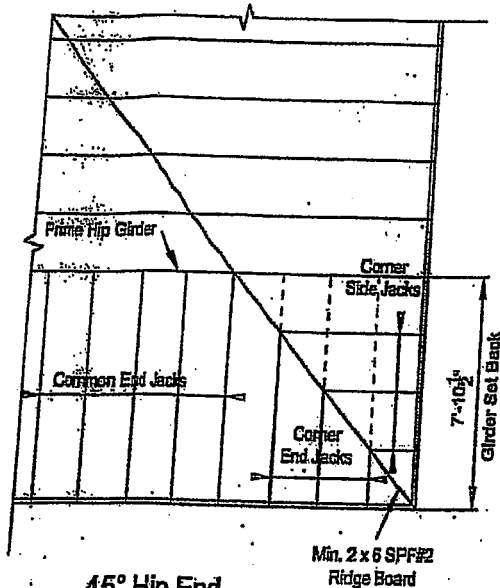


Corner End Jacks



Common End Jacks





45° Hip End

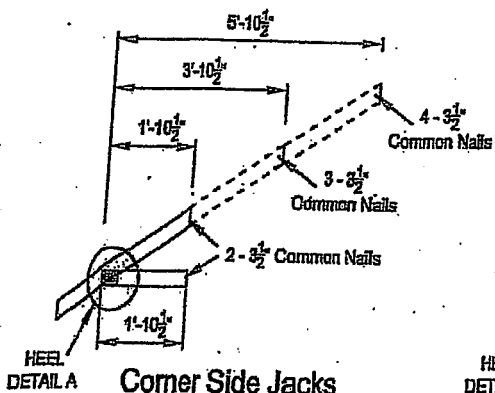
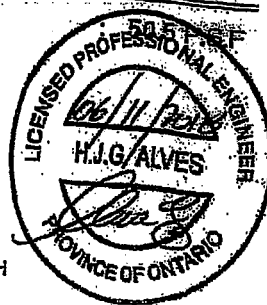
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

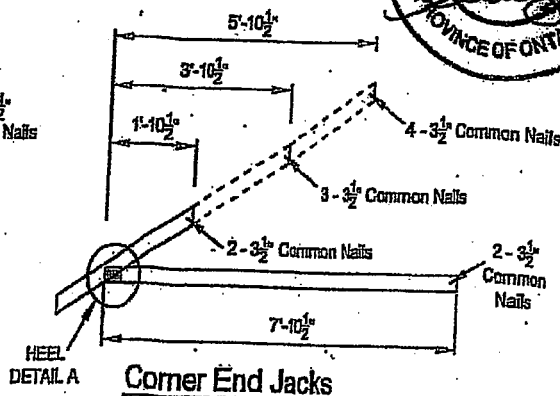
DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

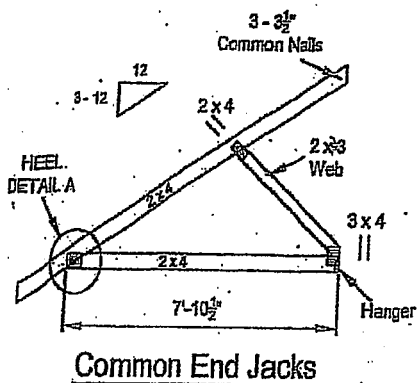
TOTAL LOAD



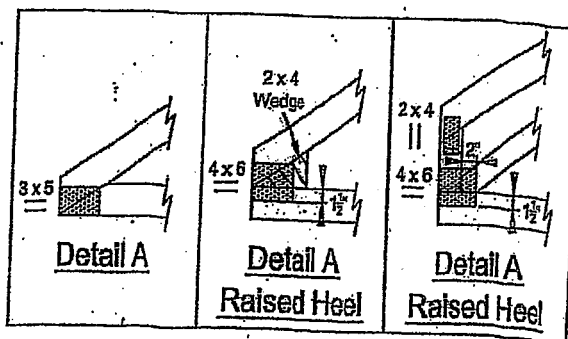
Corner Side Jacks



Corner End Jacks



Common End Jacks



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800217

SIMPSON
Strong-Tie

Material: 18 gauge

Design:

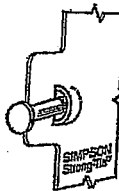
- ### Installation:

-

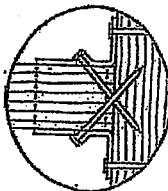
Technical drawing of a LUS28 component, showing a side view with dimensions W , H , and d_e .

* These hangers cannot be modified

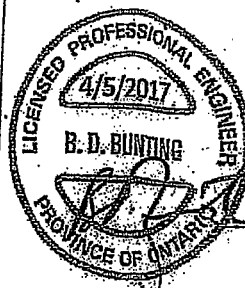
1. d_a is the distance from the seat of the hanger to the highest joist nail.



U.S. Patent
5,603,580



**Double
Shear
Nailing
Top View.**



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HUS/LJS - Double Shear Joist Hangers



All hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

Material: See table

Finish: G90 galvanized

Design:

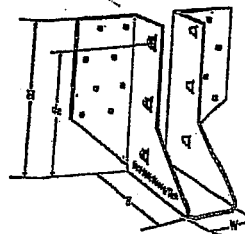
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

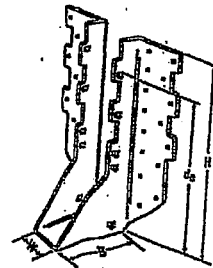
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

Options:

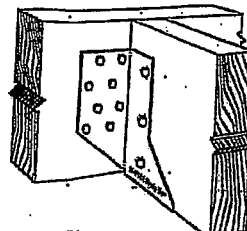
- See current catalogue for options



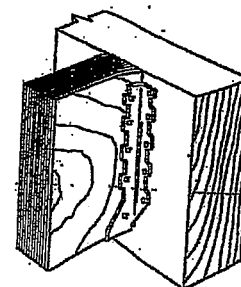
LJS26DS



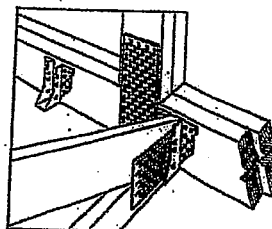
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



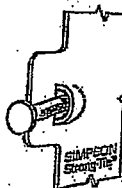
Typical HUS
Installation



Typical HUS Installation
(Truss Designer to provide fastener
quantity for connecting multiple
members together)

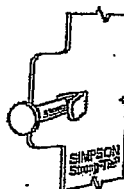
Model No.	Ga.	Dimensions (in.)					Fasteners		Factored Resistance (lb.)			
		W	H	B	d ₁	d ₂	Face	Joist	D.F.F.-I		S.P.F.	
									Uplift (K ₁ =1.15)	Normal (K ₂ =1.00)	Uplift (K ₁ =1.15)	Normal (K ₂ =1.00)
LJS26DS	18	1 1/8	5	3 1/2	4 3/4	(16) 16d	(6) 16d		2065	4265	1460	4115
HUS26	16	1 1/8	5 1/4	3	3 1/4	(14) 16d	(6) 16d		2705	4940	2065	3875
HUS28	16	1 1/8	7 1/2	3	6 1/2	(22) 16d	(6) 16d		3605	5965	2675	4245
HUS210	16	1 1/8	9 1/2	3	7 3/4	(30) 16d	(10) 16d		4505	6795	4010	4740
HUS181/10	16	1 1/8	9	3	8	(30) 16d	(10) 16d		4505	6450	4010	5200

1. d₂ is the distance from the seat of the hanger to the highest joist nail.

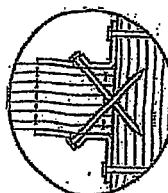


Double Shear Nailing prevents tabs breaking off (available on some models).

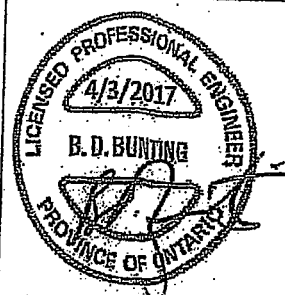
U.S. Patent
5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



IMP

DESIGN

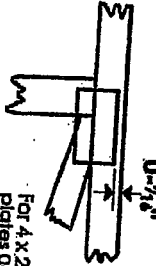
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Symbols

NOTES TO USER AND ORIGINATOR



General Note on Joint Orientation: Apply plates to both sides of truss and fully embed itself.



For 4 x 2 orientation, locate plates 0-1/4" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

4 X 4

The first dimension is the plate width measured perpendicular to slot. Second dimension is the length parallel to slot.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use L1 or Elliminator bracing if indicated.

BEARING



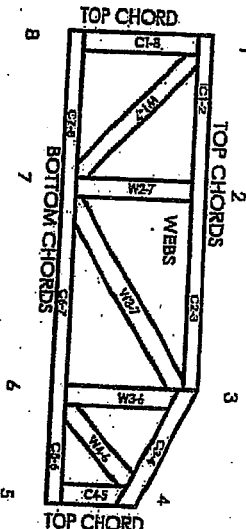
Indicates location where bearings (supports) occur. Icons vary but number where bearings occur.

DSB-89: Design Standard for Designing Building Component Safety Information, Installing & Strapping of Metal Plate Connected Wood Trusses.

DSB-89: Design Standard for Designing Building Component Safety Information, Installing & Strapping of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-inches or mm (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED COUNTERCLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT PARTIALS 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
PERFORMANCE

Mitek Engineering Reference Sheet: M1-7473C 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 BCSL.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral bracing themselves may require bracing or alternative L1 or Elliminator 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 the fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum piling 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, wane and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.

H - Seismic and Hurricane Ties

SIMPSON
Strong-Tie

The H connector series provides wind and seismic ties for trusses and rafters.

Material: 18 gauge **Finish:** G90 galvanized

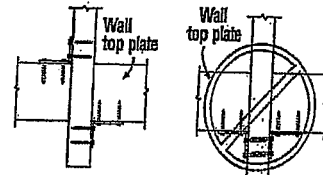
Design: • Factored resistances are in accordance with CSA O86-14
• Factored resistances have been increased 15%. No further increase is permitted.

Installation: • Use all specified fasteners

- Nails: 8d = 0.131" dia. x 2 1/2" long common wire, 8d x 1 1/2" = 0.131" x 1 1/2" long, 10d x 1 1/2" = 0.146" x 1 1/2" long
- H1 can be installed with flanges facing outwards
- Hurricane ties do not replace solid blocking

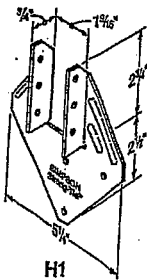
Factored resistances for more than one direction for a single connection cannot be added together. A factored load which can be divided into components in the directions given must be evaluated as follows: Factored Shear/Resisting Shear + Factored Tension/Resisting Tension ≤ 1.0 .

Hurricane Tie Installations to Achieve Twice the Load (Top View)

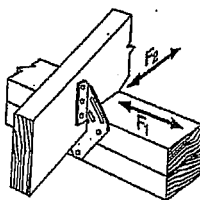


Install diagonally across from each other for minimum 2x truss.

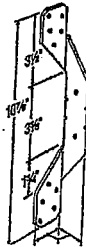
Nailing into both sides of a single ply 2x truss may cause the wood to split.



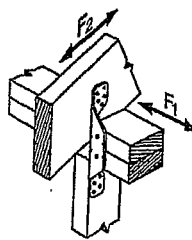
H1



H1 Installation



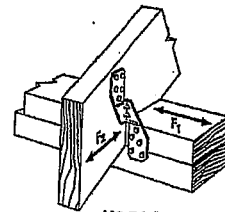
H2A



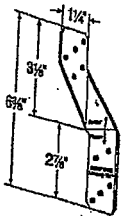
H2A Installation



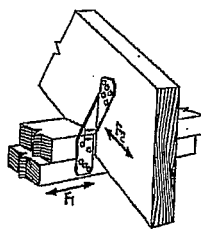
H2.5A



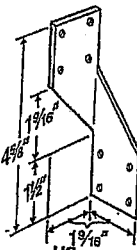
H2.5A Installation



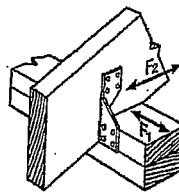
H2.5T



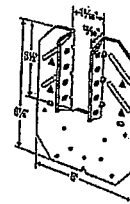
H2.5T Installation
(Nails into both top plates)



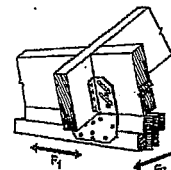
H3



H3 Installation



H10A



H10A Installation

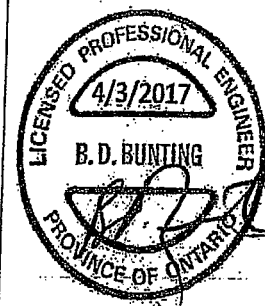
Model No.	Ga.	Fasteners			Factored Resistance (lb.)					
		To Rafter	To Plates	To Studs	D.Fir-L			S-P-F		
					Uplift	Normal		Uplift	Normal	
						F ₁	F ₂		F ₁	F ₂
H1	18	(6) 8d x 1 1/2"	(4) 8d	—	740	685	300	680	485	215
H2A	18	(5) 8d x 1 1/2"	(2) 8d x 1 1/2"	(5) 8d x 1 1/2"	830	220	75	590	155	55
H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
H2.5T	18	(5) 8d	(5) 8d	—	835	175	240	740	160	210
H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
H10A	18	(9) 10d x 1 1/2"	(6) 10d x 1 1/2"	—	1735	795	410	1505	565	290

1. Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed.

2. Factored resistances are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.

3. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.

4. Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a Continuous Load Path, connections must be on same side of the wall.



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CP Crush Plates – Bearing Enhancers

SIMPSON
Strong-Tie

The CP transfers load from the truss or girder to plates for bearing limited conditions. Replaces nail-on scabs or in some cases, an additional ply when needed for bearing.

Material: See table

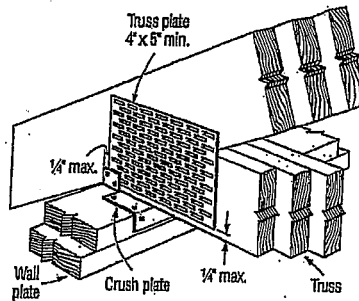
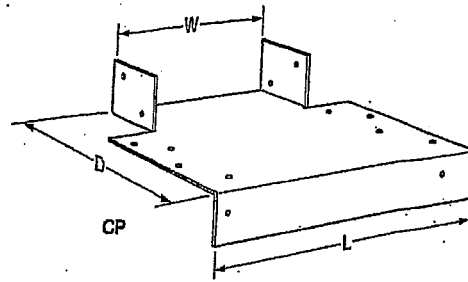
Finish: G90 galvanized

Design:

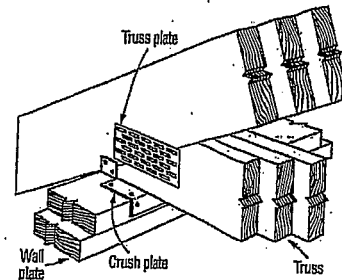
- Factored resistances are in accordance with CSA O86-14 assuming Q_r/A_p and $Q_r/A_b = 812$ psi for D.Fir-L and 615 psi for S-P-F. See clauses 6.5.4 and 7.5.9 TPIC 2014 when compression loads are applied to both sides of truss chord members at bearing locations.

Installation:

- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- For Case 1, truss plates must be located a maximum of ¼" from the underside of the truss chord and a maximum of ¼" from the edge of the wall plates in accordance with the reinforcing requirements of 7.5.9 TPIC 2014.



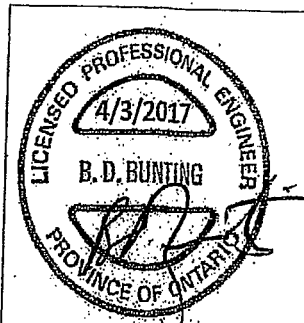
Case 1



Case 2

Model No.	Ga.	Wall Plate	Dimensions (in.)			Fasteners		Factored Resistance (lb.)				
			W	D	L	Wall Plate	Truss	D.Fir-L		S-P-F		
								Uplift	Bearing	Uplift	Bearing	
												$(K_u=1.15)$
CASE 1 (Truss Plate Reinforcement)												
CP1-4	20	2x4	1½	3½	4½	(6) 10d	(4) 10d x 1½"	225	5965	225	4515	
CP2-4	16		3¼	3½	5¼	(6) 10d	(4) 10d x 1½"	225	11390	225	9030	
CP3-4	16		4¾	3½	7½	(6) 10d	(4) 10d x 1½"	225	17895	225	13545	
CP4-4	12	2x6	6½	3½	9½	(6) 10d	(4) 10d x 1½"	225	23860	225	18065	
CP1-6	20		1½	5½	4½	(10) 10d	(4) 10d x 1½"	225	9370	225	7095	
CP2-6	16		3¼	5½	5¼	(10) 10d	(4) 10d x 1½"	225	18740	225	14190	
CP3-6	16		4¾	5½	7½	(10) 10d	(4) 10d x 1½"	225	28110	225	21285	
CP4-6	12		6½	5½	9½	(10) 10d	(4) 10d x 1½"	225	37495	225	28390	
CASE 2 (No Reinforcement)												
CP1-4	20	2x4	1½	3½	4½	(6) 10d	(4) 10d x 1½"	225	4685	225	3550	
CP2-4	16		3¼	3½	5¼	(6) 10d	(4) 10d x 1½"	225	9370	225	7100	
CP3-4	16		4¾	3½	7½	(6) 10d	(4) 10d x 1½"	225	14055	225	10650	
CP4-4	12	2x6	6½	3½	9½	(6) 10d	(4) 10d x 1½"	225	18750	225	14195	
CP1-6	20		1½	5½	4½	(10) 10d	(4) 10d x 1½"	225	7365	225	5575	
CP2-6	16		3¼	5½	5¼	(10) 10d	(4) 10d x 1½"	225	14730	225	11150	
CP3-6	16		4¾	5½	7½	(10) 10d	(4) 10d x 1½"	225	22095	225	16725	
CP4-6	12		6½	5½	9½	(10) 10d	(4) 10d x 1½"	225	29460	225	22305	

1. Factored bearing resistances assume wall plate and truss are the same species. For a mixed species system use S-P-F values.



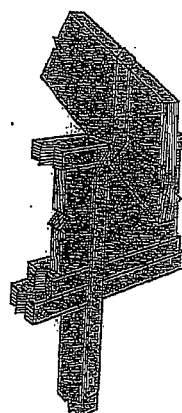
SIMPSON
Strong-Tie

MATERIAL: LTS-18 gauge; MTS-16 gauge; HTS-14 gauge; TS-16 gauge
FINISH: Galvanized. Some products available in stainless steel and ZMAX®; see Corrosion Information, pages 14-17.

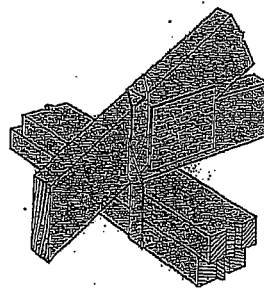
- When LTS/MTS is installed as Truss-to-Top Plate tie, install 3-10dx1½" nails to the w/s of the plate and 3-10dx1½" nails into the edge of the double top plate.

These products are approved for installation with the Strong-Drive® SD Connector screw. See page 24 for more information.

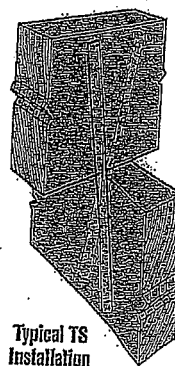
Model No.	L (in)	Fasteners (Total)	Factored Resistance (kN = 1.5)	
			D.H.L.	S.P.L.
			lbs	lbs
TS9	9	8-16d	1125	1040
TS12	11½	10-16d	1410	1300
TS18	17¾	14-16d	1970	1820
TS22	21¾	18-16d	2125	2125
MTS12	12	12-10dx1	1015	720
MTS16	16	12-10dx1	1015	720
MTS18	18	12-10dx1½	1015	720
MTS20	20	12-10dx1½	1015	720
MJTS12	12	14-10dx1½	1570	1180
MTS16	16	14-10dx1½	1570	1180
MTS18	18	14-10dx1½	1570	1180
MTS20	20	14-10dx1½	1570	1180
MTS30	30	14-10dx1½	1570	1180
MTS24C	24	14-10dx1½	1570	1180
MTS30C	30	14-10dx1½	1570	1180
HTS16	16	16-10dx1½	2050	1455
HTS20	20	24-10dx1½	2050	1455
HTS24	24	24-10dx1½	2050	1455
HTS28	28	24-10dx1½	2050	1455



WTS30 Installation with 1-Joist Rafter

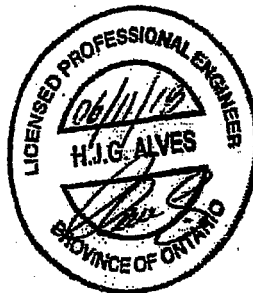


**LTS/MTS Installation
as a Truss-to-Top Plate Tie**
(See note 7)



Typical TS Installation

1. LTS12 thru LTS20, MTS16 through MTS30, HTS24 through HTS30C (except HTS30) have additional nail holes.
2. Install half of the fasteners on each end of strap to achieve maximum factored resistance.
3. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.



Alves Engineering Services Inc.

5208 Easton road
Burlington, Ontario L7L 6N6
(289) 259 5455

RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

SPECIFICATIONS

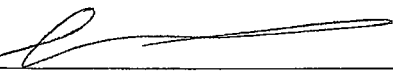
- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900218

Feb 09, 2018

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information		Application number:	
Building number, street name		Unit no. UNITS 1 - 6	Lot/con. BLOCK 5
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other description	
B. Individual who reviews and takes responsibility for design activities			
Name SAM KATSOULAKOS		Firm MICRO CITY ENGINEERING SERVICES INC.	
Street address R.R #1, PO BOX 61		Unit no.	Lot/con.
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail
Telephone number (519) 287-2242 Business	Fax number (519) 287-5750	Cell number	
C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C]			
☐ House ☐ HVAC - House ☒ Building Structural ☐ Small Buildings ☐ Building Services ☐ Plumbing - House ☐ Large Buildings ☐ Detection, Lighting and Power ☐ Plumbing - All Buildings ☐ Complex Buildings ☐ Fire Protection ☐ On-site Sewage Systems			
Description of designer's work <u>ROYAL PINE HOMES - FORESTSIDE PH6 - BLOCK 5 - UNITS 1 - 6</u> (SCHEDULE IS ISSUED AS LOT SPECIFIC) REVIEW PRE-ENGINEERED ROOF SYSTEM COMPONENT DRAWINGS AND LAYOUT PLACEMENT PLAN SUPPLIED BY TAMARACK ROOF TRUSSES INC. (SEE DWG #TAM1143-19 DATED 1-18-19). SUPPORTING STRUCTURE TO BE REVIEWED AND VERIFIED BY QUALIFIED BUILDING DESIGNER.			
D. Declaration of Designer			
I, <u>SAM KATSOULAKOS</u> declare that (choose one as appropriate): (print name)			
☒ I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories.			
Individual BCIN: <u>26064</u>			
Firm BCIN: <u>29991</u>			
☐ I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code.			
Individual BCIN: _____			
Basis for exemption from registration: _____			
☐ The design work is exempt from the registration and qualification requirements of the Building Code.			
Basis for exemption from registration and qualification: _____			
I certify that:			
1. The information contained in this schedule is true to the best of my knowledge.			
2. I have submitted this application with the knowledge and consent of the firm.			
Date <u>1-18-19</u>		Signature of Designer 	

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM 1143 -17S
 DWG #TAM 1144 -17S

1-18-19
