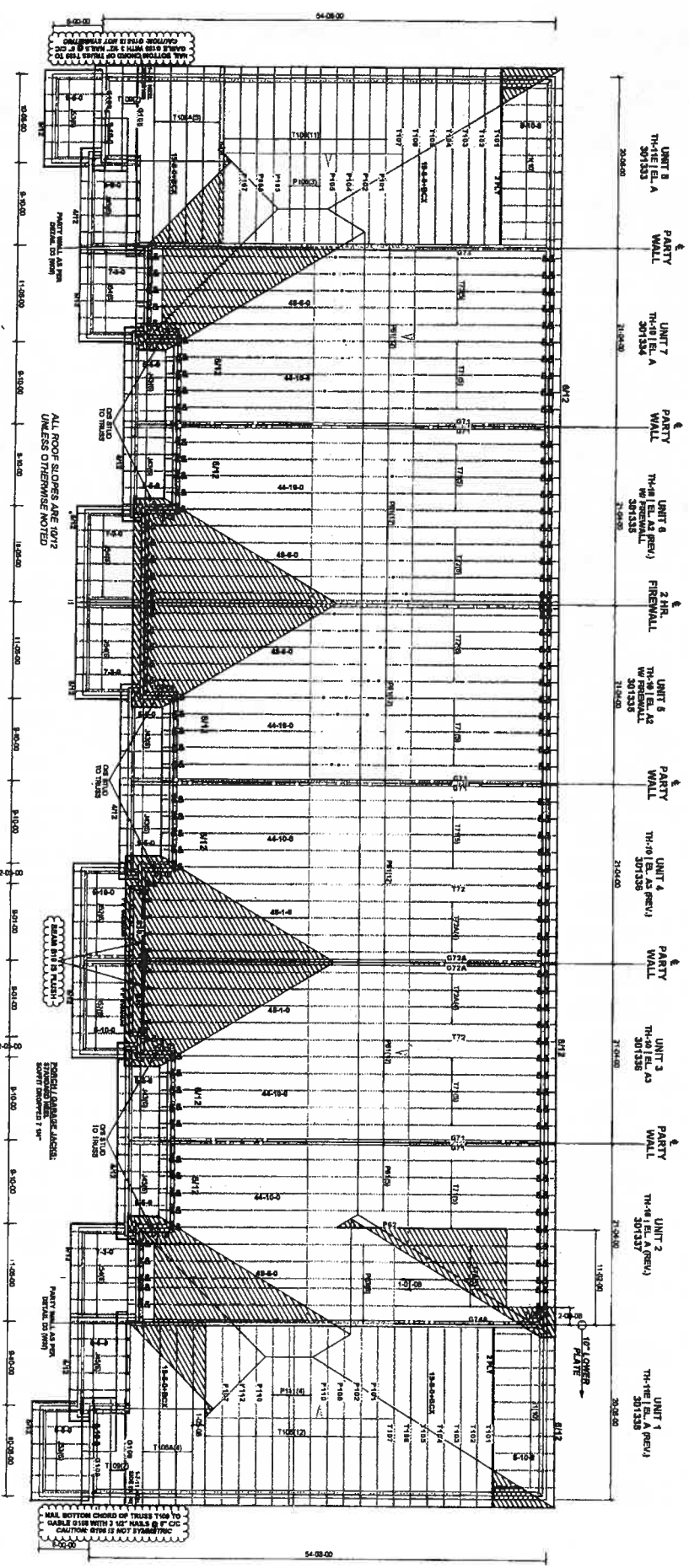




ASPHALT SHINGLES
FLASHING ON
7\"/>

ALL ROOF SLOPES ARE 10/12
UNLESS OTHERWISE NOTED

ALL CONV. FRAMING TO CONFORM
WITH 2012/2018 IBC
RAFTERS THAT CROSS OVER OR
MEET TRUSSES TO BE 2x4 SPF #2 24\"/>

DESIGN CONFORMS WITH: IRC 2012/2018
2018 IBC
GROUND SNOW LOAD S_g=54 S_g and S_g=48
DESIGN LOADS
TCDL (dead)
TCDL (live)
BCDL (dead)
BCDL (live)

REMARKS:
R10-3: 1 3/4\"/>



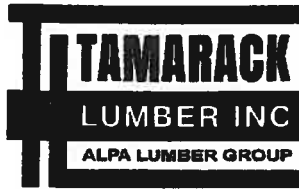
Job Track: **42067**
Layout ID: **297082**
Plan Log: **97625**

Builder / Location:
BAYVIEW WELLINGTON / INNISFIL

Project: **ALCONA SHORES**
Date: **10/17/2018** Designer: **colinh**

Model / Elevation:
BLOCK 143 / UNITS 1-8

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

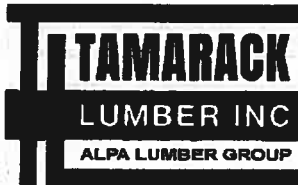
DATE	08/23/18
SALES REP	Mario

JOB TRACK: 42067	LAYOUT ID: 301333	LOCATION: INNISFIL
BUILDER: BAYVIEW WELLINGTON/ALCONA SHO	SUB-BUILDER:	
MODEL: TH-11E	ELEVATION: A	

ROOF TRUSSES

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

PROFILE	QTY PLY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
						TOP	BOT					
	1	T101 HALF HIP	10.00	19-08-00	04-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	191.40		
	2 Ply		0.00							120.00		
	1	T102 HALF HIP	10.00 0.00	19-08-00	05-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	98.39 62.33		
	1	T103 HALF HIP	10.00 0.00	19-08-00	06-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	106.72 67.00		
	1	T104 HALF HIP	10.00 0.00	19-08-00	07-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	113.32 71.83		
	1	T105 HALF HIP	10.00 0.00	19-08-00	08-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	109.23 69.00		
	12	T106 PIGGYBACK	10.00 0.00	19-08-00	09-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	1477.08 918.00		
	1	T107 HALF HIP	10.00 0.00	19-08-00	10-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	135.18 84.50		
	1	G108 COMMON	10.00 0.00	20-02-00	09-11-04	2 X 4	2 X 4	01-03-08 01-00-08	01-07-11 01-05-03	104.12 67.17		
	5	T108A COMMON	10.00 0.00	19-08-00	09-11-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	562.20 346.65		
	2	T109 COMMON	10.00 0.00	09-10-00	05-08-14	2 X 4	2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	89.42 58.66		
	1	G109 COMMON	10.00 0.00	09-10-00	05-08-14	2 X 4	2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	47.92 32.33		
	1	P101 PIGGYBACK	10.00 0.00	10-00-15	01-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-10-08	34.80 23.67		
	1	P102 PIGGYBACK	10.00 0.00	10-00-15	02-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 02-10-08	36.12 23.83		
	1	P104 PIGGYBACK	10.00 0.00	10-00-15	03-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-11-15	39.51 26.00		
	2	P105 PIGGYBACK	10.00 0.00	10-00-15	04-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-11-15	84.86 54.00		
	3	P106 PIGGYBACK	10.00 0.00	10-00-15	05-04-12	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-11-15	119.04 75.00		
	1	P107 PIGGYBACK	10.00 0.00	10-00-15	01-06-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-06-08	33.88 22.00		
	1	P108 PIGGYBACK	10.00 0.00	10-00-15	03-02-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-11-15	38.15 25.00		



Delivery Shiplist

DATE	08/23/18
SALES REP	Mario

JOB TRACK: 42067 LAYOUT ID: 301333 LOCATION: INNISFIL
BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
MODEL: TH-11E ELEVATION: A

ROOF TRUSSES

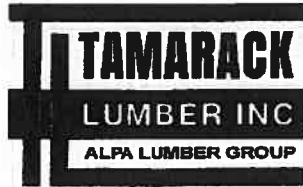
ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

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					
	10	J1 JACK-OPEN	6.00 0.00	05-10-08	04-01-04	2 X 4	2 X 4	01-03-08 00-00-00	01-02-00 04-01-04	167.90 106.70		
	6	J45 JACK-OPEN	4.00 0.00	05-09-00	02-02-15	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 02-02-15	101.82 64.98		
	6	J53 JACK-OPEN	5.00 0.00	06-06-00	03-01-07	2 X 4	2 X 4	01-03-08 00-00-00	00-05-06 03-00-13	115.08 73.02		

TOTAL # TRUSS= 60.00

TOTAL BFT OF ALL TRUSSES=

2391.67 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3806.14 LBS.



Delivery Shiplist

Page 1 of 1

DATE	08/23/18
SALES REP	Mario

JOB TRACK: 42067 LAYOUT ID: 301334 LOCATION: INNISFIL
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
 MODEL: TH-10 ELEVATION: A

ROOF TRUSSES

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

PROFILE	QTY PLY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER TOP BOT	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	5	T71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6 2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	1377.65 820.85		
	1	G71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6 2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	274.33 168.50		
	5	T73 PIGGYBACK	6.00 0.00	48-06-00	09-04-03	2 X 6 2 X 6	01-03-08 01-03-08	01-02-00 01-07-11	1509.10 923.35		
	1	G73 PIGGYBACK	6.00 0.00	48-06-00	09-04-03	2 X 6 2 X 6	01-03-08 01-03-08	01-02-00 01-07-11	297.06 185.50		
	12	P61 PIGGYBACK	6.00 0.00	10-02-10	02-10-13	2 X 4 2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	347.28 218.04		
	6	J43 JACK-OPEN	4.00 0.00	06-06-00	02-01-10	2 X 4 2 X 4	01-03-08 00-00-00	00-03-15 02-01-02	86.10 55.98		
	6	J54 JACK-OPEN	5.00 0.00	07-03-00	03-05-10	2 X 4 2 X 4	01-03-08 00-00-00	00-05-06 03-05-10	135.18 87.00		

TOTAL # TRUSS= 38.00

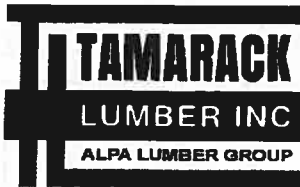
TOTAL BFT OF ALL TRUSSES=

2459.22 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4026.70 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
40	Hangers	TBE6	

TOTAL # ITEMS= 40.00



Delivery Shiplist

DATE	08/23/18
SALES REP	Mario

JOB TRACK: 42067 LAYOUT ID: 301335 LOCATION: INNISFIL
BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
MODEL: TH-10 ELEVATION: A2 W/ FIREWALL

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	T71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	1377.65 820.85		
	1	G71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	274.33 168.50		
	6	T72 PIGGYBACK	6.00 0.00	48-06-00	09-04-03	2 X 6	2 X 6	01-03-08 00-00-00	01-02-00 03-01-10	1792.38 1102.02		
	12	P61 PIGGYBACK	6.00 0.00	10-02-10	02-10-13	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	347.28 216.04		
	6	J43 JACK-OPEN	4.00 0.00	05-05-00	02-01-10	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 02-01-02	86.10 55.98		
	6	J54 JACK-OPEN	5.00 0.00	07-03-00	03-05-10	2 X 4	2 X 4	01-03-08 00-00-00	00-05-06 03-05-10	135.18 87.00		

TOTAL # TRUSS= 36.00

TOTAL BFT OF ALL TRUSSES=

2452.39 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4012.92 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
44	Hangers	TBE6	

TOTAL # ITEMS= 44.00



Delivery Shiplist

DATE	08/23/18
SALES REP	Mario

JOB TRACK: 42067 LAYOUT ID: 301336 LOCATION: INNISFIL
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
 MODEL: TH-10 ELEVATION: A3

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	T71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	1377.65 820.85		
	1	G71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	274.33 168.50		
	1	T72 PIGGYBACK	6.00 0.00	48-08-00	09-04-03	2 X 6	2 X 6	01-03-08 00-00-00	01-02-00 03-01-10	298.73 163.67		
	4	T72A PIGGYBACK	6.00 0.00	48-01-00	09-04-03	2 X 6	2 X 6	01-03-08 00-00-00	01-02-00 03-01-10	1187.40 729.32		
	1	G72A PIGGYBACK	6.00 0.00	48-01-00	09-04-03	2 X 6	2 X 6	01-03-08 00-00-00	01-02-00 03-01-10	294.06 185.00		
	12	P61 PIGGYBACK	6.00 0.00	10-02-10	02-10-13	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	347.28 216.04		
	6	J43 JACK-OPEN	4.00 0.00	05-05-00	02-01-10	2 X 4	2 X 4	01-03-06 00-00-00	00-03-15 02-01-02	86.10 55.98		
	6	J52 JACK-OPEN	5.00 0.00	05-10-00	02-10-09	2 X 4	2 X 4	01-03-08 00-00-00	00-05-06 02-10-09	105.18 64.98		

TOTAL # TRUSS= 36.00

TOTAL BFT OF ALL TRUSSES=

2426.34 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3970.73 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
4	Hangers	HGUS26	
32	Hangers	TBE6	
4	Hangers	TS22	
3	Beam	1 3/4" x 11 7/8" LVL	10-00-00

TOTAL # ITEMS= 43.00



Delivery Shiplist

Page 1 of 1

DATE	08/23/18
SALES REP	Mario

JOB TRACK:42067	LAYOUT ID: 301337	LOCATION: INNISFIL
BUILDER: BAYVIEW WELLINGTON/ALCONA SHO	SUB-BUILDER:	
MODEL: TH-10	ELEVATION: A	

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	T71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	1377.65 820.85		
	1	G71 PIGGYBACK	6.00 0.00	44-10-00	09-04-03	2 X 6	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	274.33 168.50		
	5	T74 PIGGYBACK	6.00 0.00	48-06-00	09-04-03	2 X 6	2 X 6	01-03-08 01-03-08	01-02-00 01-07-11	1558.00 964.15		
	1	G74A PIGGYBACK	6.00 0.00	46-10-00	09-04-03	2 X 6	2 X 6	00-00-00 01-03-06	01-02-00 01-07-11	286.50 181.50		
	5	P61 PIGGYBACK	6.00 0.00	10-02-10	02-10-13	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	144.70 90.85		
	1	P62 PIGGYBACK	6.00 0.00	10-02-10	01-06-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	32.08 20.67		
	6	P63 PIGGYBACK	6.00 0.00	08-06-10	02-05-13	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	147.42 90.00		
	6	J43 JACK-OPEN	4.00 0.00	05-05-00	02-01-10	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 02-01-02	86.10 55.98		
	6	J54 JACK-OPEN	5.00 0.00	07-03-00	03-05-10	2 X 4	2 X 4	01-03-08 00-00-00	00-05-06 03-05-10	135.18 87.00		

TOTAL # TRUSS= 36.00

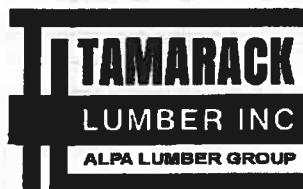
TOTAL BFT OF ALL TRUSSES=

2479.50 BFT. TOTAL WEIGHT OF ALL TRUSSES= 4043.96 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
40	Hangers	TBE6	

TOTAL # ITEMS= 40.00



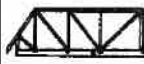
Delivery Shiplist

DATE	08/23/18
SALES REP	Mario

JOB TRACK: 42067 LAYOUT ID: 301338 LOCATION: INNISFIL
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
 MODEL: TH-11E ELEVATION: A

ROOF TRUSSES

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

PROFILE	QTY PLY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER TOP BOT	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	1 2 Ply	T101 HALF HIP	10.00 0.00	19-08-00	04-01-04	2 X 4 2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	191.40 120.00		
	1	T102 HALF HIP	10.00 0.00	19-08-00	05-01-04	2 X 4 2 X 6	01-03-06 00-00-00	01-07-11 00-05-08	98.39 62.33		
	1	T103 HALF HIP	10.00 0.00	19-08-00	06-01-04	2 X 4 2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	106.72 67.00		
	1	T104 HALF HIP	10.00 0.00	19-08-00	07-01-04	2 X 4 2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	113.32 71.83		
	1	T105 HALF HIP	10.00 0.00	19-08-00	08-01-04	2 X 4 2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	109.23 69.00		
	13	T106 PIGGYBACK	10.00 0.00	19-08-00	09-01-04	2 X 4 2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	1600.17 994.50		
	1	T107 HALF HIP	10.00 0.00	19-08-00	10-01-04	2 X 4 2 X 6	01-03-06 00-00-00	01-07-11 00-05-08	135.18 84.50		
	1	G108 COMMON	10.00 0.00	20-02-00	09-11-04	2 X 4 2 X 4	01-03-08 01-00-08	01-07-11 01-05-03	104.12 67.17		
	4	T108A COMMON	10.00 0.00	19-08-00	09-11-04	2 X 4 2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	449.76 277.32		
	2	T109 COMMON	10.00 0.00	09-10-00	05-08-14	2 X 4 2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	89.42 58.66		
	1	G109 COMMON	10.00 0.00	09-10-00	05-08-14	2 X 4 2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	47.92 32.33		
	1	P101 PIGGYBACK	10.00 0.00	10-00-15	01-10-08	2 X 4 2 X 4	00-00-00 00-00-00	00-04-13 01-10-08	34.80 23.67		
	1	P102 PIGGYBACK	10.00 0.00	10-00-15	02-10-08	2 X 4 2 X 4	00-00-00 00-00-00	00-04-13 02-10-08	36.12 23.83		
	1	P107 PIGGYBACK	10.00 0.00	10-00-15	01-06-08	2 X 4 2 X 4	00-00-00 00-00-00	00-04-13 01-06-08	33.88 22.00		
	1	P109 PIGGYBACK	10.00 0.00	10-00-15	03-10-06	2 X 4 2 X 4	00-00-00 00-00-00	00-04-13 02-09-15	40.82 26.50		
	2	P110 PIGGYBACK	10.00 0.00	10-00-15	04-10-08	2 X 4 2 X 4	00-00-00 00-00-00	00-04-13 02-09-15	86.42 56.34		
	4	P111 PIGGYBACK	10.00 0.00	10-00-15	05-09-12	2 X 4 2 X 4	00-00-00 00-00-00	00-04-13 02-09-15	164.88 102.68		
	1	P112 PIGGYBACK	10.00 0.00	10-00-15	03-02-08	2 X 4 2 X 4	00-00-00 00-00-00	00-04-13 00-00-00	38.87 25.00		



Delivery Shiplist

Page 2 of 2

DATE	08/23/18
SALES REP	Mario

JOB TRACK: 42067	LAYOUT ID: 301338	LOCATION: INNISFIL
BUILDER: BAYVIEW WELLINGTON/ALCONA SHO	SUB-BUILDER:	
MODEL: TH-11E	ELEVATION: A	

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					
	10	J1 JACK-OPEN	6.00 0.00	05-10-08	04-01-04	2 X 4	2 X 4	01-03-08 00-00-00	01-02-00 04-01-04	167.90 106.70		
	6	J45 JACK-OPEN	4.00 0.00	05-09-00	02-02-15	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 02-02-15	101.82 64.98		
	6	J53 JACK-OPEN	5.00 0.00	06-05-00	03-01-07	2 X 4	2 X 4	01-03-08 00-00-00	00-05-06 03-00-13	115.08 73.02		

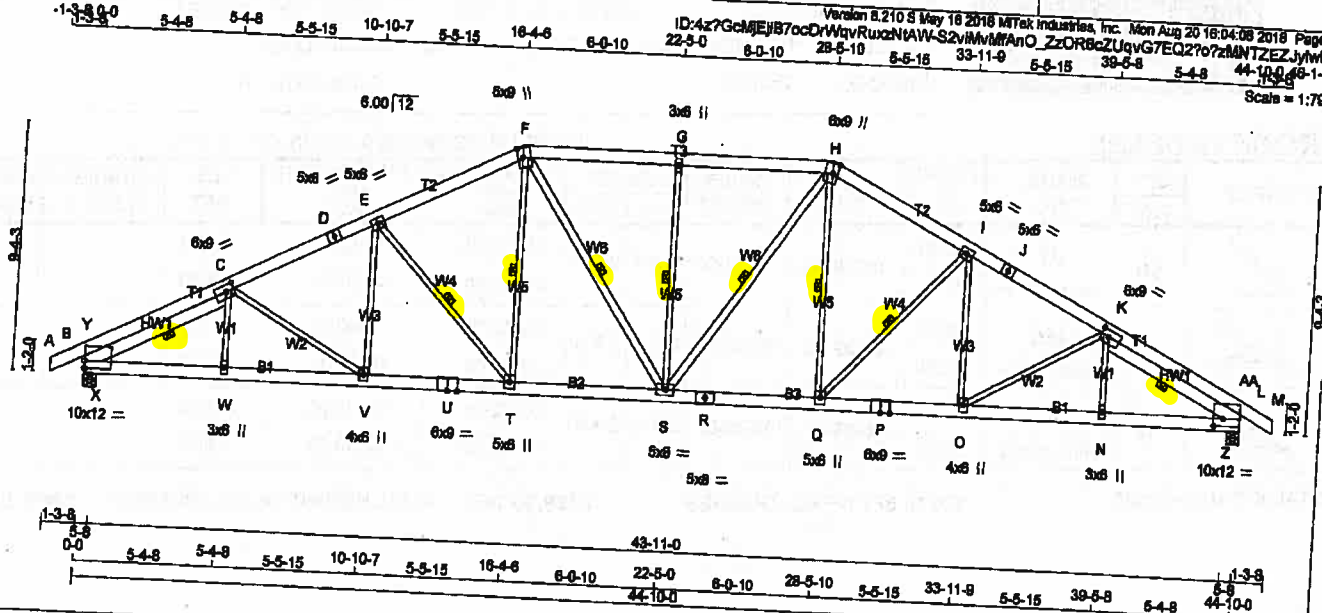
TOTAL # TRUSS= 61.00

TOTAL BFT OF ALL TRUSSES=

2429.36 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3866.22 LBS.



JOB NAME 297082 Tamarack Roof Truss, Burlington	TRUSS NAME T71	QUANTITY 30	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
--	--------------------------	-----------------------	-----------------	--------------------------	----------



LUMBER		
N.L.G.A. RULES		
CHORDS	SIZE	LUMBER
A - D	2x6	DRY No.2
E - F	2x6	DRY No.2
G - H	2x6	DRY No.2
I - J	2x6	DRY No.2
K - M	2x6	DRY No.2
N - U	2x6	DRY No.2
V - W	2x6	DRY No.2
X - Y	2x6	DRY No.2
Z	2x6	DRY No.2

REINFORCING MEMBERS		
HW1	2x6	DRY No.2
HW2	2x6	DRY No.2
ALL WEBS	2x3	DRY No.2
EXCEPT		
F - S	2x4	DRY No.2
S - H	2x4	DRY No.2

DRY: SEASONED LUMBER.

PLATES (Table in ft. inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMWVW-1	MT20	10.0	12.0 3.50
C	TMWVW-4	MT20	6.0	9.0 3.00 3.75
D	TS-1	MT20	5.0	6.0
E	TMWVW-4	MT20	8.0	9.0
F	TMWVW-4	MT20	8.0	9.0
G	TMWVW-4	MT20	8.0	9.0
H	TMWVW-4	MT20	8.0	9.0
I	TMWVW-4	MT20	8.0	9.0
J	TS-1	MT20	5.0	6.0
K	TMWVW-4	MT20	8.0	9.0 3.00 3.75
L	TMWVW-4	MT20	10.0	12.0 3.50 4.50
N	BMWVW-4	MT20	3.0	6.0
O	BMWVW-4	MT20	3.0	6.0
P	BS-1	MT20	4.0	6.0
Q	BMWVW-4	MT20	6.0	9.0
R	BS-1	MT20	3.0	6.0
S	BMWVW-4	MT20	5.0	8.0
T	BMWVW-4	MT20	5.0	8.0
U	BS-1	MT20	6.0	9.0
V	BMWVW-4	MT20	4.0	8.0
W	BMWVW-4	MT20	3.0	6.0

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



DESIGNATIONS, 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
B	4820 0	B	5134 248	1081 5-8	1081 5-8	1081 5-8	1081 5-8
L	4820 0	L	5134 0	1081 5-8	1081 5-8	1081 5-8	1081 5-8

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1081 LBS. FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1081 LBS. FACTORED UPLIFT

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES SHALL BE PROVIDED BY BUILDING DESIGNER

PROVIDE FOR 249 LBS. FACTORED HORIZONTAL REACTION AT JOINT B

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	3537	2810/0	471/0	0/0	175/-1144	600/0	0/0
L	3537	2810/0	471/0	0/0	85/-1144	600/0	0/0

HORIZONTAL REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	0/0	0/0	0/0	0/0	175/-178	0/0	0/0
L	0/0	0/0	0/0	0/0	85/-178	0/0	0/0

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

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 2.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-T, F-T, F-S, G-S, H-S, H-Q, I-Q, C-X, K-Z

LOADINGS

TOTAL LOAD CASES: (16)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0/2	W-C	0/247
B-Y	-5718/1082	C-V	-448/351
Y-C	-3422/638	V-E	-79/451
C-D	-7119/1615	E-T	-1618/304
D-E	-7119/1615	T-F	-307/1437
E-F	-6173/1487	F-S	-354/1700
F-G	-5988/1488	S-G	-1513/453
G-H	-5988/1488	H-S	-355/1700
H-I	-6173/1487	I-T	-307/1437
I-J	-7119/1615	T-Q	-1618/304
J-K	-7119/1615	Q-I	-75/451
K-AA	-3423/637	O-K	-448/352
AA-L	-5718/1081	N-K	0/247
L-M	0/2	X-Y	-350/2736
B-X	-840/3044	X-C	-4518/687
X-W	-1630/6771	K-Z	-4518/687
W-V	-1531/6786	Z-AA	-351/2736
V-U	-1354/6380		
U-T	-1354/6380		
T-S	-1017/5494		
S-R	-870/5494		
R-Q	-870/5494		
Q-P	-1105/6380		
P-O	-1105/6380		
O-N	-1284/6786		
N-Z	-1283/6771		

TOTAL WEIGHT = 30 X 278 = 8340 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 51.6 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 78.3 PSF

SPACING = 24" IN CC

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF OBC 2012, OBC 2018
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- SHAPE REDUCTION FACTOR NOT USED

(80% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 51.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.49")

CALCULATED VERT. DEFL.(LL) = L/899 (0.26")

ALLOWABLE DEFL.(TL) = L/180 (2.69")

CALCULATED VERT. DEFL.(TL) = L/899 (0.33")

CS1: TC=0.77/1.00 (G-H-S), SC=0.39/1.00 (N-O-Z)

WB=0.78/0.90 (G-S-Z), SB=0.45/1.00 (F-G-Z)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

SNOW LOAD IMPORTANCE FACTOR = 1.00

WIND LOAD IMPORTANCE FACTOR = 1.00

LIVE LOAD IMPORTANCE FACTOR = 1.00

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 1687 788 1987 1656

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

JSI GRIP= 0.88 (S) (INPUT = 0.90)
JSI METAL= 0.97 (R) (INPUT = 1.00)



JOB NAME 297082	TRUSS NAME T71	QUANTITY 30	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	-----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 5 May 18 2018 MTEK Industries, Inc. Mon Aug 20 16:04:08 2018 Page 2
ID:4x7GcMIEIB7ccDrWgvRuxzNAW-S2vIMVMAAnO_ZzOR6cZUgvG7EQ2to7zMNTZEZJyhwD5

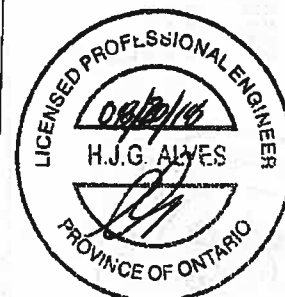
LOADING

TOTAL LOAD CASES: (16)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)
FR-TO				FR-TO			
Z-L	-581 / 3044	-38.5	-38.5 0.16 (S)	Z-L			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NRCC 4.1.8.2.(b)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (0.8) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM **T1805313**
STRUCTURAL
COMPONENT ONLY **2/2**



JOB NAME 297082	TRUSS NAME G71	QUANTITY 6	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	---------------------------------	----------

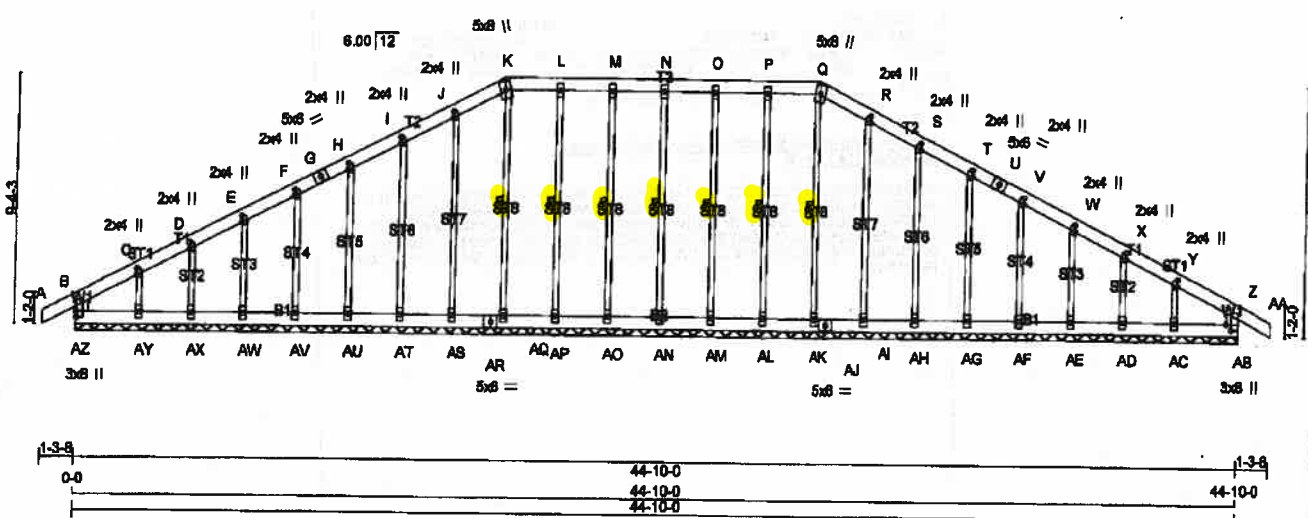
Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2016 MTEK Industries, Inc. Mon Aug 20 16:06:28 2016 Page 1

ID:4x7GdMJE187ocDrWqRwzNAW-EbC2O8Uan?bn4OSa_fOL7TV8k4bPrpD_p8hfJy638

44-100 45-1-8

Scale = 1:78.5



N. L. G. A. RULES					
	CHORDS	SIZE		LUMBER	DESCR
AZ - B	2x6	DRY	No.2		SPF
A - G	2x6	DRY	No.2		SPF
G - K	2x6	DRY	No.2		SPF
K - Q	2x6	DRY	No.2		SPF
Q - U	2x6	DRY	No.2		SPF
U - AA	2x6	DRY	No.2		SPF
AB - Z	2x6	DRY	No.2		SPF
AZ - AJ	2x6	DRY	No.2		SPF
AR - AB	2x6	DRY	No.2		SPF
UJ - AB	2x6	DRY	No.2		SPF
ALL WEBS	2x6	DRY	No.2		SPF
ALL GABLE WEBS	2x6	DRY	No.2		SPF
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2-0-0 OC.					

BRACING

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)

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 Q-AK, P-AL, O-AM, N-AN, M-AQ, L-AP, K-AQ.

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B, Z, AB, AZ					
C, F, H, I, J					
D, E, R, S, T, V, W, X, Y					
G, TS-1					
K, TTW+M					
L, M, N, O, P					
Q, TMW+M					
R, TTW+M					
U, TS-1					
AB, TMBMW1+P					
AC, AD, AE, AF, AG, AH, AI, AK, AL, AM, AN, AO, AP, AQ, AS, AT, AU, AV, AW, AX, AY					
AC, BMW1+W					
AJ, BS-1					
AR, BS-1					
AZ, TMBMW1+P					

LOADING

TOTAL LOAD CASES: (4)

CHORDS	FACTORED	WEBS	FACTORED
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO	
AZ-B	-383 / 0	AK-Q	-258 / 0
A-B	0 / 40	AL-P	-288 / 0
B-C	-129.7 -129.7 0.08 (1)	AM-O	-258 / 0
C-D	-129.7 -129.7 0.05 (1)	AN-N	-251 / 0
D-E	-129.7 -129.7 0.03 (1)	AO-M	-258 / 0
E-F	-129.7 -129.7 0.03 (1)	AP-L	-258 / 0
F-G	-129.7 -129.7 0.03 (1)	AQ-K	-253 / 0
G-H	-129.7 -129.7 0.03 (1)	AS-J	-258 / 0
H-I	-129.7 -129.7 0.03 (1)	AT-I	-258 / 0
I-J	-129.7 -129.7 0.03 (1)	AU-H	-257 / 0
J-K	-129.7 -129.7 0.03 (1)	AV-F	-257 / 0
K-L	-129.7 -129.7 0.03 (1)	AW-E	-258 / 0
L-M	-129.7 -129.7 0.03 (1)	AX-D	-252 / 0
M-N	-129.7 -129.7 0.03 (1)	AY-C	-258 / 0
N-O	-129.7 -129.7 0.03 (1)	AR-R	-258 / 0
O-P	-129.7 -129.7 0.03 (1)	AS-S	-258 / 0
P-Q	-129.7 -129.7 0.03 (1)	AG-T	-257 / 0
Q-R	-129.7 -129.7 0.03 (1)	AF-V	-257 / 0
R-S	-129.7 -129.7 0.03 (1)	AE-W	-258 / 0
S-T	-129.7 -129.7 0.03 (1)	AD-X	-252 / 0
T-U	-129.7 -129.7 0.03 (1)	AC-Y	-288 / 0
U-V	-129.7 -129.7 0.03 (1)		
V-W	-129.7 -129.7 0.03 (1)		
W-X	-129.7 -129.7 0.03 (1)		
X-Y	-129.7 -129.7 0.03 (1)		
Y-Z	-129.7 -129.7 0.05 (1)		
Z-AA	0 / 40		
AS-Z	-383 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 38.2 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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 CBC 2012, CBC 2016
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 54.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.09/1.00 (Z-AA:1), BC=0.02/1.00 (AB-AC:1), WB=0.32/1.00 (R-A:1), SS=0.10/1.00 (Z-AA: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 MAX MIN

MT20 618 354 1887 788 1887 1886

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.36 (J) (INPUT = 0.90)

JSI METAL= 0.15 (AB) (INPUT = 1.00)

DWG NO. TAM T1805323

STRUCTURAL COMPONENT ONLY

1/2





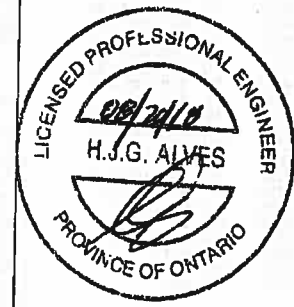
JOB NAME 297082	TRUSS NAME G71	QUANTITY 6	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	---------------------------------	----------

Tamrack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 16:06:26 2018 Page 2
ID:4z?GdMEEB7edDrWqvRuzNIAW-EbO208Ubn?bn4QSe fDL7TV9k4bPrpD p9hfJyb38

LOADING
TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO				FR-TO			
AL-AK	0/26	-38.5	-38.5	0.01 (2)	10.00				
AK-AJ	0/29	-38.5	-38.5	0.01 (2)	10.00				
AJ-AI	0/29	-38.5	-38.5	0.01 (2)	10.00				
AI-AH	0/32	-38.5	-38.5	0.01 (2)	10.00				
AH-AG	0/36	-38.5	-38.5	0.01 (2)	10.00				
AG-AF	0/41	-38.5	-38.5	0.01 (2)	10.00				
AF-AE	0/46	-38.5	-38.5	0.01 (2)	10.00				
AE-AD	0/53	-38.5	-38.5	0.02 (2)	10.00				
AD-AC	0/62	-38.5	-38.5	0.02 (2)	10.00				
AC-AB	0/77	-38.5	-38.5	0.02 (1)	10.00				



DWG NO. TAM **71465323**
STRUCTURAL
COMPONENT ONLY **7/2**



JOB NAME 297082	TRUSS NAME T72	QUANTITY 14	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	-----------------------	-----------------	---------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2016 Mitek Industries, Inc. Mon Aug 20 16:04:10 2016 Page 2
ID:4x?GcMIEB7ccDfVgVRuozNAWLOQ0SnaNvIQclpHYqE1crvKLQdEFVWGvqem2LdCvWvD3

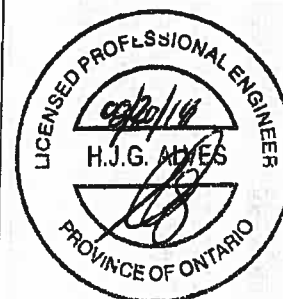
LOADING

TOTAL LOAD CASES: (16)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
S-R	-1914 / 9782	-38.5 -38.5	0.52 (3)	6.25			
R-Q	-1914 / 9782	-38.5 -38.5	0.52 (3)	6.25			
Q-P	-2502 / 12437	-38.5 -38.5	0.77 (3)	6.21			
P-O	-1431 / 7201	-38.5 -38.5	0.52 (3)	6.25			
D-N	-22 / 58	-38.5 -38.5	0.03 (9)	6.25			

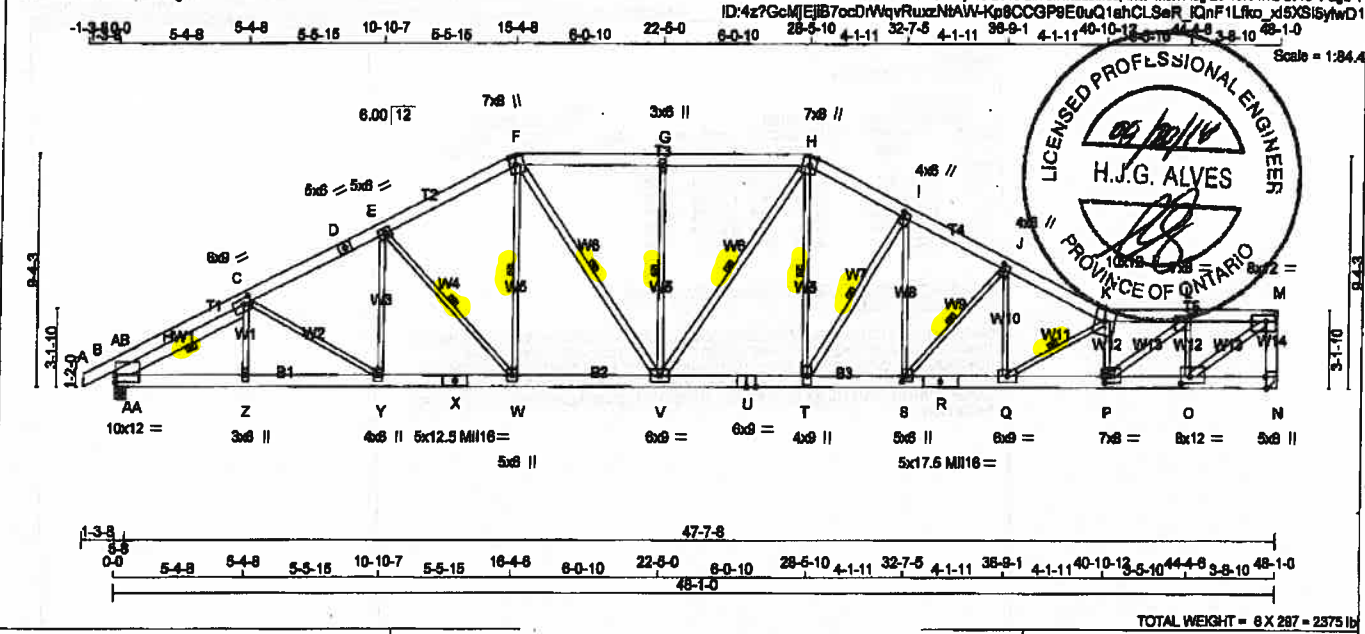
**TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBC 4.7.6.2.6**

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (8.6) PSF AT (40-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM **11802314**
STRUCTURAL
COMPONENT **3/2**

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	T72A	8	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington				Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 16:04:12 2018 Page 1	



LUMBER		LUMBER		DESCR.	
N. L. G. A. RULES	SIZE				
CHORDS					
A - D	2x6	DRY	No.2		SPF
D - F	2x6	DRY	No.2		SPF
F - H	2x6	DRY	No.2		SPF
H - K	2x6	DRY	No.2		SPF
K - M	2x6	DRY	No.2		SPF
N - M	2x6	DRY	No.2		SPF
B - X	2x6	DRY	2100F 1.8E		SPF
X - U	2x6	DRY	2100F 1.8E		SPF
U - R	2x6	DRY	2100F 1.8E		SPF
R - N	2x6	DRY	2100F 1.8E		SPF
REINFORCING MEMBERS					
HW1	2x6	DRY	No.2		SPF
ALL WEBS					
EXCEPT	2x6	DRY	No.2		SPF
F - V	2x4	DRY	No.2		SPF
V - H	2x4	DRY	No.2		SPF
T - I	2x4	DRY	No.2		SPF
P - L	2x4	DRY	2100F 1.8E		SPF
O - M	2x4	DRY	2100F 1.8E		SPF
DRY: SEASONED LUMBER.					

PLATES (contin. to In inches)		W	LEN	Y	X
TYPE	PLATES				
BMWWH-I	MT20	10.0	12.0	3.50	
BMWWH-W	MT20	8.0	9.0	2.75	3.75
TS-I	MT20	5.0	8.0		
BMWW-I	MT20	5.0	8.0		
TTWWH-m	MT20	7.0	8.0	3.75	2.75
BMWW-W	MT20	3.0	8.0		
TTWWH-m	MT20	7.0	8.0	4.00	3.25
BMWW-H	MT20	4.0	8.0	2.50	1.00
TTWWH-H	MT20	4.0	8.0	2.50	1.00
TTWWH-m	MT20	10.0	12.0	6.25	8.00
BMWW-I	MT20	7.0	8.0	2.75	2.50
BMWW-I	MT20	8.0	12.0	3.25	4.75
BMW-I-H	MT20	5.0	8.0	Edge	0.50
BMWWH-I	MT20	8.0	12.0	3.25	4.75
BMWWH-I	MT20	7.0	8.0	3.00	2.25
BMWWH-I	MT20	8.0	9.0		
BS-I	MH18	5.0	5.0	17.5	
BMWWH-I	MT20	5.0	8.0	2.75	2.25
BMWWH-I	MT20	4.0	9.0		
BS-I	MT20	8.0	9.0		
BMWWH-t	MT20	8.0	9.0		
BMWWH-I	MT20	5.0	8.0		
BS-I	MH18	5.0	12.5		
BMWWH-I	MT20	4.0	8.0		
BMWW-W	MT20	3.0	8.0		

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

MEMBERS, 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	HORIZ	DOWN	HORIZ		IN-SX	IN-SX
N	5022	0	5282	0	-1088	MECHANICAL	
B	5260	0	5336	296	-1115	5-8	

H64528
58--2TB26

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT N.

PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1088 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1115 LBS FACTORED UPLIFT

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES SHALL BE PROVIDED BY BUILDING DESIGNER

PROVIDE FOR 288 LBS FACTORED HORIZONTAL REACTION AT JOINT B

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM/LIVE	WIND	DEAD	SOIL	
N	2620	2684 / 0	508 / 0	0 / 0	120 / -1179	628 / 0	0 / 0	
B	3782	2686 / 0	508 / 0	0 / 0	178 / -1208	642 / 0	0 / 0	

HORIZONTAL REACTIONS

B							
	-	0 / 0	0 / 0	0 / 0	213 / -118	0 / 0	0 / 0

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 1.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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: (18)

MEMB.	CHORDS			WEBS					
	MAX FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)		MAX CSI (LC)	
						FR-TO	FR-TO		
FR-TO	0 / 2	FROM TO		10.10	Z-C	0 / 245	0.06 (17)		
A-B	-5957 / 1145	-170.4 -170.4	0.51 (2)	3.14	C-Y	-400 / 408	0.29 (2)		
A-B-C	-3659 / 673	-170.4 -170.4	0.42 (2)	4.12	Y-E	-118 / 429	0.10 (5)		
C-D	-7782 / 1721	-170.4 -170.4	0.78 (2)	2.55	E-W	-1697 / 1498	0.72 (2)		
D-E	-7782 / 1721	-170.4 -170.4	0.78 (2)	2.55	W-F	-303 / 1421	0.34 (3)		
E-F	-6874 / 1597	-170.4 -170.4	0.68 (2)	2.86	F-V	-439 / 2128	0.44 (3)		
F-G	-6846 / 1646	-170.4 -170.4	0.83 (3)	2.58	V-G	-1508 / 452	0.78 (2)		
G-H	-6846 / 1646	-170.4 -170.4	0.83 (3)	2.58	V-H	-298 / 1458	0.23 (2)		
H-I	-7364 / 1780	-170.4 -170.4	0.48 (3)	2.94	T-H	-532 / 2454	0.65 (3)		
I-J	-6724 / 1895	-170.4 -170.4	0.58 (3)	2.57	T-I	-2817 / 693	0.78 (3)		
J-K	-10602 / 2252	-170.4 -170.4	0.78 (3)	2.06	S-I	-402 / 1970	0.44 (3)		
K-L	-11590 / 2437	-170.4 -170.4	0.73 (3)	1.89	S-J	-2455 / 609	0.86 (3)		
L-M	-6772 / 1456	-170.4 -170.4	0.38 (3)	3.09	Q-J	-298 / 1742	0.38 (3)		
N-M	-5210 / 1105	0.0	0.0	4.75	Q-K	-2753 / 618	0.56 (3)		
					P-K	-3915 / 875	0.66 (3)		
B-A-A	-679 / 3164	-36.5	-36.5	0.17 (1)	6.25	P-L	-1259 / 8157	0.46 (3)	
A-A-Z	-1622 / 7159	-36.5	-36.5	0.36 (1)	6.25	L-H	-4608 / 1031	0.78 (3)	
Z-Y	-1623 / 7157	-36.5	-36.5	0.41 (1)	6.25	O-M	-1723 / 8344	0.63 (3)	
Y-X	-1456 / 6991	-36.5	-36.5	0.37 (1)	6.25	A-A-B	-389 / 3002	0.00 (1)	
X-W	-1456 / 6991	-36.5	-36.5	0.37 (1)	6.25	A-A-C	-4895 / 901	0.62 (1)	
W-V	-1123 / 8120	-36.5	-36.5	0.33 (1)	6.25				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 51.8 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 75.3 PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL PLAT SECTIONS BASED ON A SLOPE OF 8.00/12

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCO 2010, NBCO 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF CBC 2012, CBC 2018
- CSA 086-09, CSA 086-14
- TPC 2011, TPC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR NOT USED

(80 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 91.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/260 (1.60")
CALCULATED VERT. DEFL.(LL) = L/989 (0.49")
ALLOWABLE DEFL.(TL) = L/80 (3.21")
CALCULATED VERT. DEFL.(TL) = L/936 (0.82")

CSI: TC=0.83/1.0 (G-H-3), BC=0.72/1.0 (P-Q-3)
WB=0.78/1.0 (I-T-3), SS=0.45/1.0 (F-G-2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
	MAX MIN	MAX MIN MAX MIN
MT20	816 354	1987 788 1987 1656
MIN16	438 276	2341 1245 4283 1656

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
JSI METAL= 0.97 (U) (INPUT = 1.00)

DWG NO. TAM 11805315
STRUCTURAL
COMPONENT 1/2



JOB NAME 297082	TRUSS NAME T72A	QUANTITY 8	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 16:04:12 2018 Page 2
ID:4x7GdMIEB7ocDrVWvRuzNNAV-Kp8CCGP9E0uQ1shCLSeR IQnF1Lftco_xl6XS5yWwD1

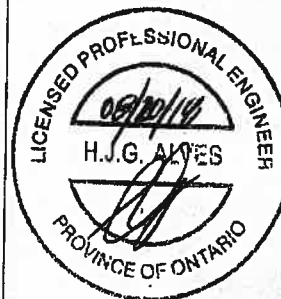
LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
V-U	-1079 / 6582	-38.5	-38.5 0.35 (1)	6.25			
U-T	-1079 / 6582	-38.6	-38.5 0.35 (1)	6.25			
T-S	-1440 / 7806	-38.5	-38.5 0.41 (1)	6.25			
S-R	-1841 / 8427	-38.5	-38.5 0.50 (3)	6.25			
R-Q	-1841 / 8427	-38.5	-38.5 0.50 (3)	6.25			
Q-P	-2359 / 11743	-38.5	-38.5 0.72 (3)	6.25			
P-O	-1342 / 8772	-38.5	-38.6 0.49 (3)	6.25			
O-N	-22 / 86	-38.5	-38.5 -0.03 (8)	6.25			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(6)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.8) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.

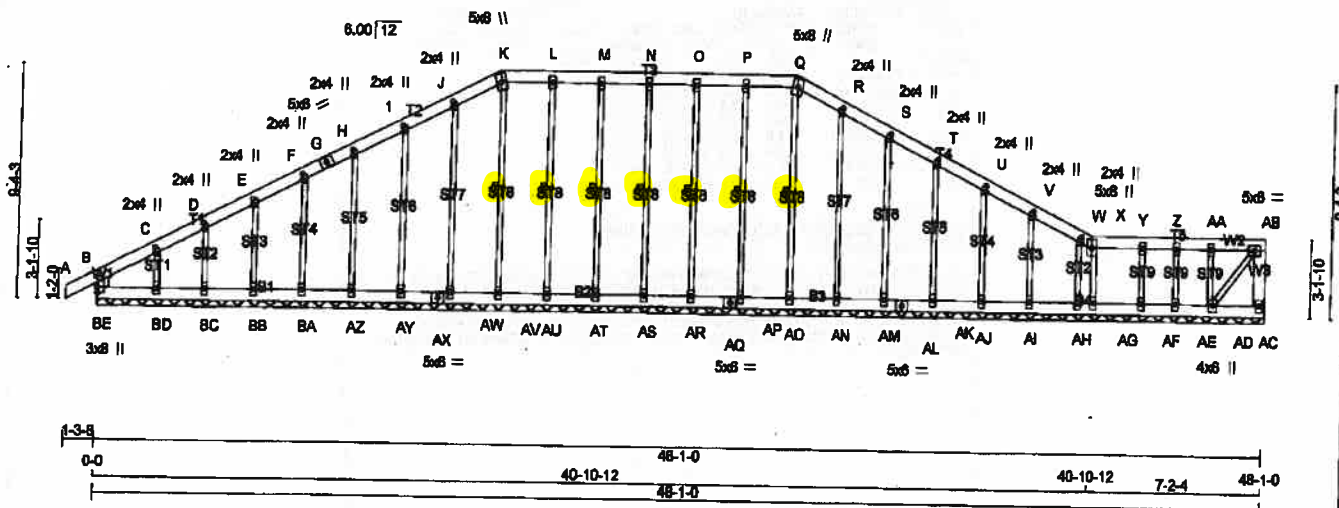


DWG NO. TAM **T1805315**
STRUCTURAL
COMMON PART ONLY **3/2**



JOB NAME 297082	TRUSS NAME G72A	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamrack Roof Truss, Burlington
Version 8.210 8 May 18 2018 Mitek Industries, Inc. Mon Aug 20 15:08:33 2018 Page 1
ID:4z7GcMEJB7ccDrWqvRwzNAW-8MeZEWYSqE5CZ0mQDV4HJfjhyOnWJpvr7vo4ybS4
1-3-8-0 15-4-8 18-4-8 12-1-4 28-5-10 12-5-2 40-10-12 7-2-4 48-1-0
Scale = 1:83.9



LUMBER				
N.L.G.A. RULES				
CHORDS	SIZE		LUMBER	DESCR
BE - B	2x6	DRY	No.2	SPF
A - G	2x6	DRY	No.2	SPF
G - K	2x6	DRY	No.2	SPF
K - Q	2x6	DRY	No.2	SPF
Q - X	2x6	DRY	No.2	SPF
X - AB	2x6	DRY	No.2	SPF
AC - AB	2x6	DRY	No.2	SPF
BE - AX	2x6	DRY	No.2	SPF
AX - AQ	2x6	DRY	No.2	SPF
AQ - AL	2x6	DRY	No.2	SPF
AL - AC	2x6	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.

DESIGN CRITERIA

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 = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF Q-AQ, P-AP, Q-AR, N-AS, M-AT, L-AU, K-AV.

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

PLATES (table is in inches)

BT TYPE	PLATES	W	LEN	Y	X
C, F, H, J, R, S, T, V, W					
D, E, U	MT20	2.0	4.0	3.00	
Q, T, S, A	MT20	2.0	4.0	2.75	
K, T, W, H	MT20	5.0	8.0		
L, M, N, O, P, Y, Z, AA					
L, T, W, H	MT20	3.0	8.0		
Q, T, W, H	MT20	5.0	8.0		
X, T, W, H	MT20	5.0	8.0		
AB, T, W, H	MT20	5.0	8.0		
AD, B, W, H	MT20	3.0	8.0		
AC, B, W, H	MT20	4.0	8.0		
AE, AF, AG, AH, AI, AJ, AK, AM, AN, AO, AP, AR, AS, AT, AU, AV, AW, AY, AZ, BA, BB, BC, BD					
AE, B, W, H	MT20	3.0	8.0		
AL, AQ, AX					
AL, BS, I	MT20	5.0	8.0		
BE					
BE, T, B, W, H	MT20	3.0	8.0	2.75	0.25

TOTAL LOAD CASES: (4)

CHORDS

MEMB.

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD (LBS)

MAX. UNBRACED LENGTH (LBS)

WEBS

MEMB.

MAX. FACTORED FORCE (LBS)

MAX. UNBRACED LENGTH (LBS)

FR-TO

BE-B

-307 / 0

0.0

0.0

0.02 (1)

7.81

AO-Q

-245 / 0

0.13 (1)

A-B

0 / 40

-129.7

-129.7

0.09 (1)

10.00

AP-P

-280 / 0

0.15 (1)

B-C

0 / 12

-129.7

-129.7

0.04 (1)

10.00

AR-O

-258 / 0

0.14 (1)

C-D

0 / 14

-129.7

-129.7

0.04 (1)

10.00

AS-N

-249 / 0

0.13 (1)

O-E

0 / 29

-129.7

-129.7

0.03 (1)

10.00

AT-M

-256 / 0

0.13 (1)

E-F

0 / 37

-129.7

-129.7

0.03 (1)

10.00

AU-L

-291 / 0

0.15 (1)

F-G

0 / 43

-129.7

-129.7

0.03 (1)

10.00

AV-K

-345 / 0

0.13 (1)

G-H

0 / 43

-129.7

-129.7

0.03 (1)

10.00

AW-J

-282 / 0

0.35 (1)

H-I

0 / 48

-129.7

-129.7

0.04 (1)

10.00

AY-I

-257 / 0

0.22 (1)

I-J

0 / 52

-129.7

-129.7

0.04 (1)

10.00

AZ-H

-286 / 0

0.15 (1)

J-K

0 / 48

-129.7

-129.7

0.04 (1)

10.00

BA-F

-267 / 0

0.10 (1)

K-L

0 / 53

-129.7

-129.7

0.04 (1)

10.00

BB-E

-267 / 0

0.08 (1)

L-M

0 / 53

-129.7

-129.7

0.04 (1)

10.00

BC-D

-243 / 0

0.04 (1)

M-N

0 / 53

-129.7

-129.7

0.04 (1)

10.00

BD-C

-313 / 0

0.08 (1)

N-O

0 / 53

-129.7

-129.7

0.04 (1)

10.00

AN-R

-282 / 0

0.35 (1)

O-P

0 / 53

-129.7

-129.7

0.04 (1)

10.00

AM-S

-257 / 0

0.22 (1)

P-Q

0 / 53

-129.7

-129.7

0.04 (1)

10.00

AK-T

-286 / 0

0.18 (1)

Q-R

0 / 45

-129.7

-129.7

0.04 (1)

10.00

AJ-U

-266 / 0

0.10 (1)

R-S

0 / 52

-129.7

-129.7

0.04 (1)

10.00

AI-V

-270 / 0

0.07 (1)

S-T

0 / 48

-129.7

-129.7

0.04 (1)

10.00

AH-W

-188 / 0

0.03 (1)

T-U

0 / 42

-129.7

-129.7

0.03 (1)

10.00

AF-Y

-255 / 0

0.04 (1)

U-V

0 / 38

-129.7

-129.7

0.03 (1)

10.00

AE-Z

-168 / 0

0.03 (1)

V-W

0 / 34

-129.7

-129.7

0.03 (1)

10.00

AD-AA

-287 / 0

0.04 (1)

W-X

0 / 40

-129.7

-129.7

0.02 (1)

10.00

AG-X

-92 / 0

0.02 (1)

X-Y

0 / 23

-129.7

-129.7

0.02 (1)

10.00

AD-AB

-35 / 0

0.01 (1)

Y-Z

0 / 22

-129.7

-129.7

0.03 (1)

10.00

Z-AA

0 / 22

-129.7

-129.7

0.03 (1)

10.00

AA-AB

0 / 22

-129.7

-129.7

0.04 (1)

10.00

AC-AB

-98 / 0

0.0

0.0

0.01 (1)

7.81

BE-BD

0 / 0

-38.5

-38.5

0.02 (3)

10.00

BD-BC

-17 / 0

-38.5

-38.5

0.02 (3)

8.25

BC-BB

-26 / 0

-38.5

-38.5

0.01 (3)

6.25

BB-BA

-33 / 0

-38.5

-38.5

0.01 (3)

6.25

BA-AZ

-38 / 0

-38.5

-38.5

0.01 (3)

6.25

AZ-AY

-43 / 0

-38.5

-38.5

0.01 (3)

6.25

AY-AX

-48 / 0

-38.5

-38.5

0.01 (3)

6.25

AX-AW

-48 / 0

-38.5

-38.5

0.01 (3)

6.25

AW-AV

-50 / 0

-38.5

-38.5

0.01 (3)

6.25

AV-AU

-53 / 0

-38.5

-38.5

0.01 (3)

6.25

AU-AT

-53 / 0

-38.5

-38.5

0.01 (3)

6.25

AT-AS

-53 / 0

-38.5

-38.5

0.01 (3)

6.25

AS-AR

-53 / 0

-38.5

-38.5

0.01 (3)

6.25

AR-AQ

-53 / 0

-38.5

-38.5

0.01 (3)

6.25

TOTAL WEIGHT = 2 X 294 = 588 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 38.2 PSF

DL = 8.0 PSF

BOT CH. LL = 10.6 PSF

DL = 7.0 PSF

TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN.

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2012, CBC 2018
- CSA 088-08, CSA 088-14
- TPC 2011, TPC 2014

(55 % OF 64.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CS: TC=0.09/1.00 (A-B:1), BC=0.02/1.00 (BC-BD:3), WB=0.35/1.00 (R-AN:1), SB=0.10/1.00 (AA-AB: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 RIGHT HEEL ONLY

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PS)	SECTION (PL)
MT20	618	354
1887	768	1987
1636		

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.36 (S) (INPUT = 0.90)

JSI METAL= 0.13 (C) (INPUT = 1.00)

DRWG NO. TAM 1105296

STRUCTURAL COMPONENT ONLY





JOB NAME 297082	TRUSS NAME G72A	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

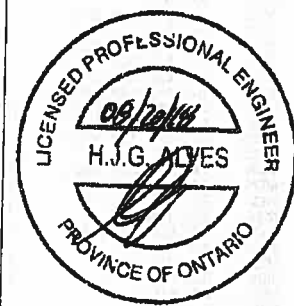
Version 8.210 8 May 16 2016 Mitek Industries, Inc. Mon Aug 20 16:08:33 2016 Page 2

ID:4x7GcMIEIB7qDrWqyRuzNtAW-6MaZEWYSgESCZ0mQDV4HJlfrhyOnWJpvr7vo4yp34

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO					
AQ-AP	-53 / 0	-38.5	-38.5 0.01 (3)	8.25			
AP-AQ	-53 / 0	-38.5	-38.5 0.01 (3)	8.25			
AQ-AN	-60 / 0	-38.5	-38.5 0.01 (3)	8.25			
AN-AM	-46 / 0	-38.5	-38.5 0.01 (3)	8.25			
AM-AL	-43 / 0	-38.5	-38.5 0.01 (3)	8.25			
AL-AK	-43 / 0	-38.5	-38.5 0.01 (3)	8.25			
AK-AJ	-38 / 0	-38.5	-38.5 0.01 (3)	8.25			
AJ-AI	-33 / 0	-38.5	-38.5 0.01 (3)	8.25			
AI-AH	-28 / 0	-38.5	-38.5 0.01 (3)	8.25			
AH-AG	-19 / 0	-38.5	-38.5 0.01 (3)	8.25			
AG-AF	-22 / 0	-38.5	-38.5 0.01 (3)	8.25			
AF-AE	-22 / 0	-38.5	-38.5 0.01 (3)	8.25			
AE-AD	-22 / 0	-38.5	-38.5 0.02 (3)	8.25			
AD-AC	0 / 0	-38.5	-38.5 0.02 (3)	10.00			



DWG NO. TAM **11005296**
STRUCTURAL
COMPONENT ONLY **3/2**



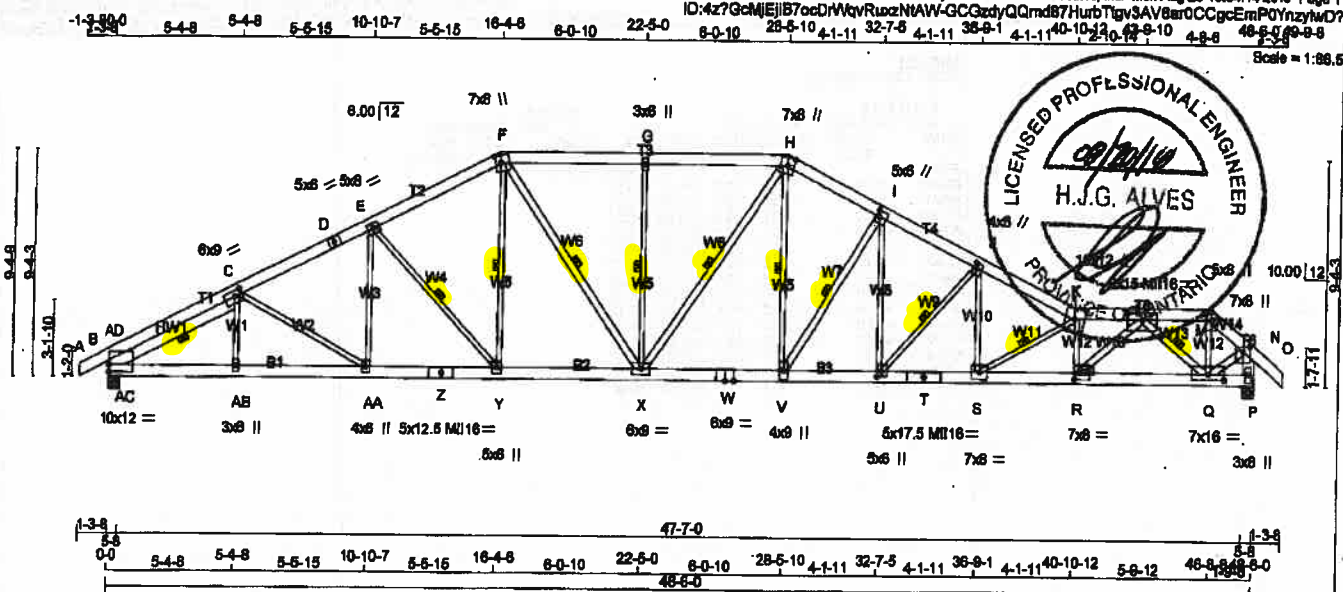
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	T73	5	1	TRUSS DESC.	

Timberack Roof Truss, Burlington

Version 8.210 8 May 18 2016 MTEK Industries, Inc. Mon Aug 20 16:04:14 2016 Page 1

ID:427GcMIEjIB7ocDrWqVruozNAW-GCGzdyQQmd87HurbTgv3AV8ar0CCgcEmP0YnzyhwD7

Scale = 1:88.6





JOB NAME 297082	TRUSS NAME T73	QUANTITY 5	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	---------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 8 May 18 2018 MITek Industries, Inc. Mon Aug 20 16:04:14 2018 Page 2
ID:4z7GcME#B7ocDrWavRuzoNIAW-GCGzdyQQmd87HurbTlav3AV8erCCacEmPOYnzylwD?

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC. LENGTH FR-TO	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
W-V	-1034 / 8710	-38.5 -38.5	0.38 (1)	6.25			
V-U	-1376 / 8008	-38.5 -38.5	0.42 (3)	6.25			
U-T	-1812 / 8742	-38.5 -38.5	0.82 (3)	6.25			
T-S	-1812 / 8742	-38.5 -38.5	0.82 (3)	6.25			
S-R	-2414 / 12420	-38.5 -38.5	0.72 (3)	6.25			
R-Q	-1590 / 8241	-38.5 -38.5	0.52 (3)	6.25			
Q-P	-11 / 23	-38.5 -38.5	0.08 (4)	6.25			

JSI GRIP= 0.90 (R) (INPUT = 0.90)
JSI METAL= 0.98 (W) (INPUT = 1.00)

**TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2. (a)**

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (8.8) PSF AT (40-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM **T1005316**
STRUCTURAL
COMPLEMENT ONLY **3/2**



JOB NAME 297082	TRUSS NAME G73	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	---------------------------------	----------

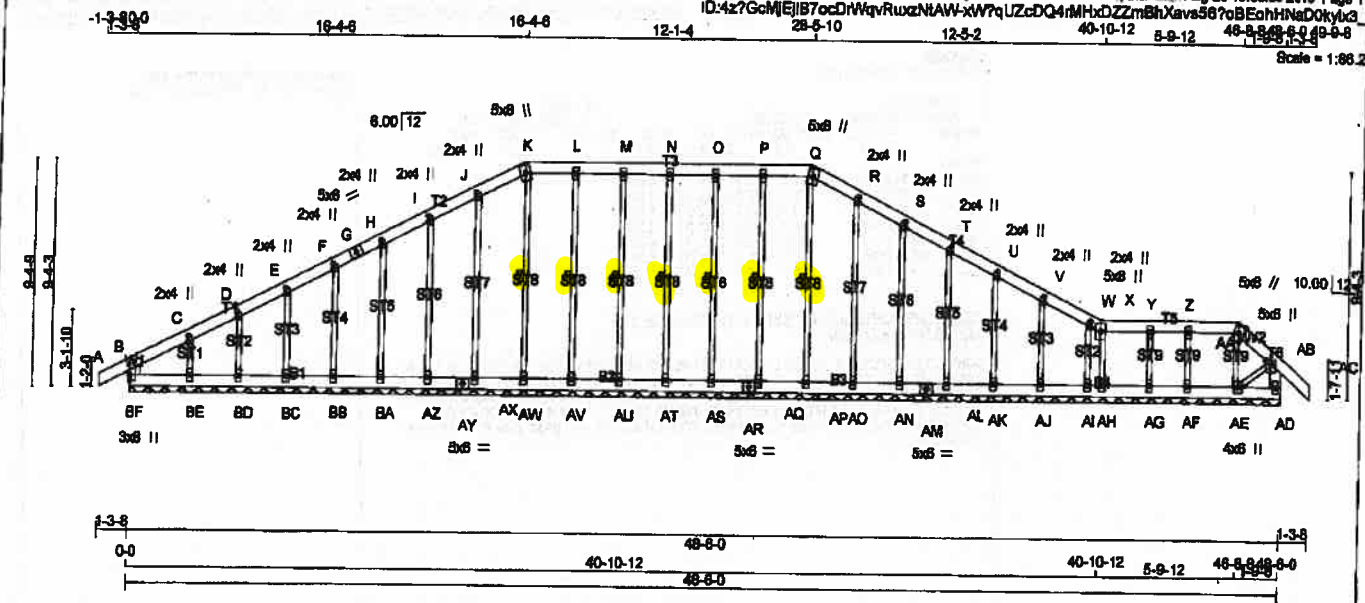
Tamrack Roof Truss, Burlington

Version 6.210 5 May 18 2018 Mitek Industries, Inc. Mon Aug 20 16:08:39 2018 Page 1

ID: 4x7GcMEjB7ccDrWqvRuozNAW-xW7qUZcDQ4rMHxZZmShXava567cBEEhHNaD0kyb3

1-3-8 18-4-6 18-4-6 12-1-4 28-5-10 12-5-2 40-10-12 5-9-12 48-8-8 48-8-8

Scale = 1:80.2



LUMBER			
N.L.G.A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
BF - B	2x6	DRY	No.2
A - G	2x6	DRY	No.2
G - K	2x6	DRY	No.2
K - Q	2x6	DRY	No.2
Q - X	2x6	DRY	No.2
X - AA	2x6	DRY	No.2
AA - AC	2x6	DRY	No.2
AD - AB	2x6	DRY	No.2
BF - AY	2x6	DRY	No.2
AY - AR	2x6	DRY	No.2
AR - AM	2x6	DRY	No.2
AM - AD	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
ALL GABLE WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

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 = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF Q-AP, P-AQ, Q-AS, N-AT, M-AU, L-AV, K-AW.

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 38.2 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

LOADING IN ALL FLAT SECTIONS 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 8 OF CBC 2012, CBC 2016
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.10/1.00 (AB-AC:1), BC=0.02/1.00 (BD-BE:3), WB=0.35/1.00 (R-AC:1), SS=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

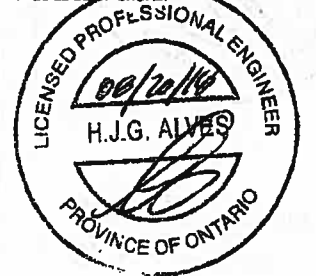
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

PLATES (MIN 1/8 IN THICK)				
JT TYPE	PLATES	W	LEN	Y X
B				
C, F, H, I, J, R, S, T, U				
D, E, V, W	MT20	2.0	4.0	3.00
G, K, Q	MT20	2.0	4.0	2.75
H, L, N, O, P, Y, Z	MT20	5.0	6.0	
I, M, N, O, P, Y, Z	MT20	5.0	6.0	
L, T, W, V, W	MT20	3.0	6.0	
X, T, W, V, W	MT20	5.0	6.0	
AA, AB, AM, V, W	MT20	5.0	6.0	Edge
AD, BM, V, W	MT20	6.0	6.0	2.00 2.25
AE, BM, V, W	MT20	3.0	6.0	
AF, AG, AH, AI, AJ, AK, AL, AN, AO, AP, AQ, AS, AT, AU, AV, AW, AX, AZ, BA, BB, BC, BD, BE	MT20	4.0	6.0	
AM, AR, AY	MT20	3.0	6.0	
AM, BS, T	MT20	5.0	6.0	
BF, TM, BM, V, W	MT20	3.0	6.0	2.75 0.25

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)
FR-TO			
BF-B	-307 / 0	0.0	0.02 (1)
A-B	0 / 40	-129.7 -129.7 0.09 (1)	7.81
B-C	0 / 12	-129.7 -129.7 0.04 (1)	10.00
C-D	0 / 14	-129.7 -129.7 0.04 (1)	10.00
D-E	0 / 29	-129.7 -129.7 0.03 (1)	10.00
E-F	0 / 37	-129.7 -129.7 0.03 (1)	10.00
F-G	0 / 43	-129.7 -129.7 0.03 (1)	10.00
G-H	0 / 43	-129.7 -129.7 0.03 (1)	10.00
H-I	0 / 48	-129.7 -129.7 0.04 (1)	10.00
I-J	0 / 52	-129.7 -129.7 0.04 (1)	10.00
J-K	0 / 45	-129.7 -129.7 0.04 (1)	10.00
K-L	0 / 53	-129.7 -129.7 0.04 (1)	10.00
L-M	0 / 53	-129.7 -129.7 0.04 (1)	10.00
M-N	0 / 53	-129.7 -129.7 0.04 (1)	10.00
N-O	0 / 53	-129.7 -129.7 0.04 (1)	10.00
O-P	0 / 53	-129.7 -129.7 0.04 (1)	10.00
P-Q	0 / 63	-129.7 -129.7 0.04 (1)	10.00
Q-R	0 / 45	-129.7 -129.7 0.04 (1)	10.00
R-S	0 / 52	-129.7 -129.7 0.04 (1)	10.00
S-T	0 / 48	-129.7 -129.7 0.04 (1)	10.00
T-U	0 / 42	-129.7 -129.7 0.03 (1)	10.00
U-V	0 / 36	-129.7 -129.7 0.03 (1)	10.00
V-W	0 / 34	-129.7 -129.7 0.03 (1)	10.00
W-X	0 / 40	-129.7 -129.7 0.02 (1)	10.00
X-Y	0 / 23	-129.7 -129.7 0.04 (1)	10.00
Y-Z	0 / 22	-129.7 -129.7 0.03 (1)	10.00
Z-AA	0 / 23	-129.7 -129.7 0.04 (1)	10.00
AA-AB	-26 / 0	-129.7 -129.7 0.09 (1)	8.25
AB-AC	0 / 60	-129.7 -129.7 0.10 (1)	10.00
AD-AB	-355 / 0	0.0	0.02 (1)

WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L)	MAX. FACTORED FORCE (LBS)
FR-TO			
AP-Q	-245 / 0	0.13 (1)	
AQ-P	-290 / 0	0.15 (1)	
AS-O	-258 / 0	0.14 (1)	
AT-N	-349 / 0	0.13 (1)	
AW-M	-258 / 0	0.13 (1)	
AX-J	-291 / 0	0.15 (1)	
AW-K	-245 / 0	0.13 (1)	
AX-J	-282 / 0	0.35 (1)	
AZ-I	-257 / 0	0.22 (1)	
BA-H	-258 / 0	0.15 (1)	
BB-E	-257 / 0	0.10 (1)	
BC-E	-257 / 0	0.08 (1)	
BD-D	-245 / 0	0.04 (1)	
BE-C	-313 / 0	0.05 (1)	
AO-R	-282 / 0	0.35 (1)	
AN-S	-257 / 0	0.22 (1)	
AL-T	-258 / 0	0.13 (1)	
AK-U	-258 / 0	0.10 (1)	
AJ-V	-270 / 0	0.07 (1)	
AI-W	-186 / 0	0.03 (1)	
AG-Y	-259 / 0	0.04 (1)	
AF-Z	-284 / 0	0.04 (1)	
AE-AA	-170 / 0	0.03 (1)	
AH-X	-90 / 0	0.02 (1)	
AE-AB	-18 / 0	0.00 (1)	

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



CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L)
FR-TO			
BF-BE	0 / 0	-38.5 -38.5 0.02 (3)	10.00
BS-BD	-17 / 0	-38.5 -38.5 0.02 (3)	6.25
BD-BC	-26 / 0	-38.5 -38.5 0.01 (3)	6.25
BC-BB	-33 / 0	-38.5 -38.5 0.01 (3)	6.25
BB-BA	-38 / 0	-38.5 -38.5 0.01 (3)	6.25
BA-AZ	-43 / 0	-38.5 -38.5 0.01 (3)	6.25
AZ-AY	-48 / 0	-38.5 -38.5 0.01 (3)	6.25
AY-AX	-48 / 0	-38.5 -38.5 0.01 (3)	6.25
AX-AW	-50 / 0	-38.5 -38.5 0.01 (3)	6.25
AW-AV	-53 / 0	-38.5 -38.5 0.01 (3)	6.25
AV-AU	-53 / 0	-38.5 -38.5 0.01 (3)	6.25
AU-AT	-53 / 0	-38.5 -38.5 0.01 (3)	6.25
AT-AS	-53 / 0	-38.5 -38.5 0.01 (3)	6.25

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

MT20 818 354 1687 788 1987 1688

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.43 (AE) (INPUT = 0.90)

JSI METAL= 0.13 (C) (INPUT = 1.00)

DRWG NO. TAM **110297**

STRUCTURAL

COMPONENT ONLY **1/2**



JOB NAME 297082	TRUSS NAME G73	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	--------------------------	----------

Tanarack Roof Truss, Burlington

Version 8.210 5 May 18 2018 Witek Industries, Inc. Mon Aug 20 16:06:30 2018 Page 2
ID:4x7GcM[E]B7acDWvRuzNIAW-xW7aUZcDQ4rMhxDZZmBhXevs587o8EohHNeDokyv3

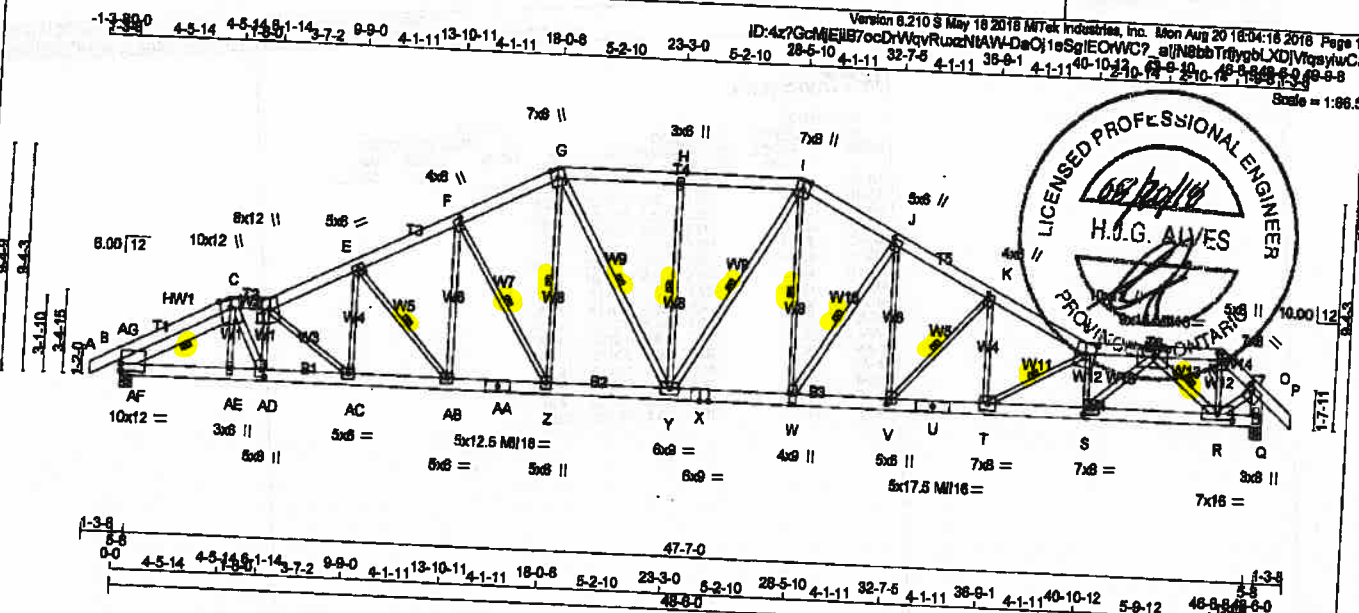
LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO					
AS-AR	-53 / 0	-38.5 -38.5	0.01 (3)	6.25			
AR-AQ	-53 / 0	-38.5 -38.5	0.01 (3)	6.25			
AQ-AP	-53 / 0	-38.5 -38.5	0.01 (3)	6.25			
AP-AO	-50 / 0	-38.5 -38.5	0.01 (3)	6.25			
AO-AN	-46 / 0	-38.5 -38.5	0.01 (3)	6.25			
AN-AM	-43 / 0	-38.5 -38.5	0.01 (3)	6.25			
AM-AL	-43 / 0	-38.5 -38.5	0.01 (3)	6.25			
AL-AK	-38 / 0	-38.5 -38.5	0.01 (3)	6.25			
AK-AJ	-33 / 0	-38.5 -38.5	0.01 (3)	6.25			
AJ-AI	-26 / 0	-38.5 -38.5	0.01 (3)	6.25			
AI-AH	-19 / 0	-38.5 -38.5	0.01 (3)	6.25			
AH-AO	-22 / 0	-38.5 -38.5	0.01 (3)	6.25			
AO-AF	-22 / 0	-38.5 -38.5	0.01 (3)	6.25			
AF-AE	-22 / 0	-38.5 -38.5	0.01 (3)	6.25			
AE-AD	0 / 0	-38.5 -38.5	0.01 (3)	10.00			



DWG NO. TAM **17805297**
STRUCTURAL
COMPONENT ONLY **3/2**

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	T74	5	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					



LUMBER		LUMBER		LUMBER	
N. L. G. A. RULES		LUMBER		LUMBER	
CHORDS	SIZE				
A - C	2x6	DRY	No.2		8PF
C - D	2x6	DRY	No.2		8PF
D - G	2x6	DRY	No.2		8PF
G - I	2x6	DRY	No.2		8PF
I - L	2x6	DRY	No.2		8PF
L - N	2x6	DRY	No.2		8PF
N - P	2x6	DRY	No.2		8PF
P - Q	2x6	DRY	No.2		8PF
Q - B	2x6	DRY	No.2		8PF
B - AA	2x6	DRY	2100F 1.8E		8PF
AA - X	2x6	DRY	2100F 1.8E		8PF
X - U	2x6	DRY	2100F 1.8E		8PF
U -	2x6	DRY	2100F 1.8E		8PF

REINFORCING MEMBERS		SPF
HW1	2x6 DRY	No.2
ALL WEBS	2x6 DRY	No.2
EXCEPT		
C - AD	2x4 DRY	No.2
D - Y	2x4 DRY	No.2
E - I	2x4 DRY	No.2
F - J	2x4 DRY	No.2
G - M	2x4 DRY	No.2
H - R	2x4 DRY	No.2
I - O	2x4 DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
B	TMMW-M	MT20	10.0	12.0	3.50		
C	TTWVW+M	MT20	10.0	12.0	Edge		
D	TTWV+M	MT20	8.0	12.0	5.25	3.50	
E	TMMW-M	MT20	5.0	8.0			
F	TMMW-M	MT20	4.0	8.0	3.00	1.25	
G	TTWV+M	MT20	7.0	8.0	4.00	3.00	
H	TTWV+M	MT20	3.0	6.0			
I	TTWV+M	MT20	7.0	8.0	4.00	3.25	
J	TMMW-M	MT20	5.0	8.0	3.00	1.50	
K	TMMW-M	MT20	4.0	6.0	2.50	1.00	
L	TTWV+M	MT20	10.0	12.0	5.25	5.00	
M	TMMW-L	MH16	8.0	15.0	3.75	6.75	
N	TTV+P	MT20	5.0	6.0	3.60	2.50	
O	TMMW-L	MT20	7.0	6.0	2.60	3.00	
P	BMV+P	MT20	3.0	6.0			
Q	BMWVW-M	MT20	7.0	16.0	3.00	8.00	
R	BMWV-L	MT20	7.0	8.0	3.25	2.25	
S	BMWV-L	MT20	7.0	8.0			
T	BS-L	MH16	5.0	17.5			
U	BMWVW-M	MT20	5.0	6.0	2.50	2.25	
V	BMWV-M	MT20	4.0	9.0			
W	BS-L	MT20	8.0	8.0			
X	BMWVW-M	MT20	8.0	8.0			
Y	BMWV-M	MT20	5.0	6.0			
Z	BS-M	MH16	5.0	12.5			
A	BMWV-L	MT20	5.0	6.0			
B	BMWV-M	MT20	5.0	8.0			
C	BMWV-M	MT20	5.0	8.0	3.50	1.75	
D	BMW+M	MT20	3.0	8.0			

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

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

JT B Q	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
	5299	0	5381	290	-1122	5-8
	5314	0	5322	0	-1148	5-8

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1122 LBS. FACTORED UPLIFT
 PROVIDE ANCHORAGE AT BEARING JOINT Q FOR 1146 LBS. FACTORED UPLIFT

NOTE: ANCHORAGE REQUIRED

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES
SHALL BE PROVIDED BY BLDG. DESIGNER

PROVIDE FOR 280 LBS FACTORED HORIZONTAL REACTION AT JOINT B
UNFACTORED REACTION

UNFACTORED REACTIONS							
1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
UT	COMBINED	SNOW	LIVE	PERMILLE	WIND	DEAD	SOIL
3	3811	2885 / 0	509 / 0	0 / 0	179 / -1217	847 / 0	0 / 0
3	3821	2802 / 0	509 / 0	0 / 0	159 / -1235	848 / 0	0 / 0
HORIZONTAL REACTIONS							
3	—	0 / 0	0 / 0	0 / 0	207 / -201	0 / 0	0 / 0
BEARING CAPACITY							

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

MAX. UNBRACED TOP CHORD LENGTH = 1.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY ABOVE

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-AB, F-Z, G-Y, H-Y, I-Y, J-W, K-V, L-T, M-R, C-AF.

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: (18)

CHORD 8				WE 8 S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FROM	TO	FROM	TO	FR	TO	FROM	TO	
A	0 / 2	-170.4	-170.4	0.13 (2)	10.00	AE - C	-34 / 380	0.08 (2)
B	-5734 / 1108	-170.4	-170.4	0.43 (2)	3.27	C - AD	-938 / 4218	0.88 (1)
C	-3418 / 840	-170.4	-170.4	0.38 (2)	4.26	AD - C	-3804 / 837	0.77 (1)
D	-6020 / 1950	-170.4	-170.4	0.37 (1)	2.68	AE - C	-1178 / 310	0.40 (2)
E	-6313 / 2003	-170.4	-170.4	0.58 (1)	2.48	AC - E	-156 / 940	0.21 (2)
F	-8273 / 1937	-170.4	-170.4	0.48 (2)	3.73	E - AB	-1650 / 453	0.44 (2)
G	-7241 / 1877	-170.4	-170.4	0.44 (1)	2.87	AB - F	-200 / 1374	0.31 (2)
H	-6952 / 1938	-170.4	-170.4	0.80 (3)	2.98	F - Z	-2098 / 588	0.87 (2)
I	-6952 / 1938	-170.4	-170.4	0.80 (3)	2.98	Z - Q	-351 / 1967	0.46 (2)
J	-7502 / 1758	-170.4	-170.4	0.47 (3)	2.80	G - Y	-372 / 1639	0.30 (3)
K	-6915 / 2001	-170.4	-170.4	0.57 (3)	2.57	Y - H	-1281 / 394	0.68 (2)
L	-10636 / 2302	-170.4	-170.4	0.78 (3)	2.04	H - I	-269 / 1498	0.23 (2)
M	-11963 / 2562	-170.4	-170.4	0.71 (3)	1.87	W - I	-362 / 2823	0.57 (3)
N	-3554 / 820	-170.4	-170.4	0.17 (3)	4.41	V - J	-2738 / 724	0.81 (3)
O	-4613 / 1008	-170.4	-170.4	0.23 (3)	3.88	V - J	-438 / 2108	0.47 (3)
P	0 / 93	-170.4	-170.4	0.15 (3)	10.00	V - K	-3602 / 955	0.70 (3)
Q	-5680 / 1151	0.0	0.0	0.37 (3)	4.59	T - K	-345 / 1901	0.43 (3)
R		-38.5	-38.5	0.17 (2)	6.25	S - L	-3139 / 710	0.63 (3)
S	-814 / 3008	-38.5	-38.5	0.37 (1)	6.25	S - M	-1070 / 5486	0.88 (1)
T	-1559 / 7023	-38.5	-38.5	0.44 (1)	6.25	M - R	-8217 / 1359	0.74 (3)
U	-1680 / 7400	-38.5	-38.5	0.54 (1)	6.25	R - N	-640 / 2575	0.58 (3)
V	-1984 / 9158	-38.5	-38.5	0.46 (1)	6.25	AO -	-890 / 4003	0.84 (3)
W	-1743 / 8336							

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	81.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	75.3	PSF

SPACING 24.0 IN. GRG

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL
OR INDUSTRIAL BUILDING REQUIREMENTS OF
PART 4, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
PART 4 OF OBC 2012, OBC 2016
CSA 088-09, CSA 088-14
TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
SLOPE REDUCTION FACTOR NOT USED
OVERHANG NOT TO BE ALTERED OR CUT
OFF

0 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F.
(MIN. LOAD) TIMES IMPORTANCE FACTOR
EQUALS 51.8 P.S.F. SPECIFIED ROOF LIVE
LOAD

LOWABLE DEFL (LL) = 1/360 (1.82")
 CALCULATED VERT. DEFL (LL) = 1/899 (0.53")
 LOWABLE DEFL (TL) = 1/180 (3.23")
 CALCULATED VERT. DEFL (TL) = 1/679 (0.86")

TC=0.79/1.00 (K-L3), BC=0.70/1.00 (S-T3),
 =0.88/1.00 (M-S:1), SS1=0.39/1.00 (G-H2)

LUMBER=1.00 NAIL=1.00 LS BEND=1.10
MP=1.10 SHEAR=1.10 TENS=1.10

DEAD LOAD IMPORTANCE FACTOR = 1.00
 LIVE LOAD IMPORTANCE FACTOR = 1.00
 WIND LOAD IMPORTANCE FACTOR = 1.00
 EARTHQUAKE IMPORTANCE FACTOR = 1.00

RESOLVE HEELS OFF

SS PLATE MANUFACTURER IS NOT
POSSIBLE FOR QUALITY CONTROL IN
TRUSS MANUFACTURING PLANT.

GRIP (DRY)		SHEAR		SECTION	
(PSI)		(PLI)		(PLI)	
MAX	MIN	MAX	MIN	MAX	MIN
616	354	1857	788	1987	1658
438	278	2341	1245	4263	1658

PLACEMENT TOL = 0.250 inches

ROTATION TOL = 5.0 Deg.

DWG NO. TAM 11805317 1/2
STRUCTURAL
COMPONENT ONLY CONTINUED ON PAGE 2



JOB NAME 297082	TRUSS NAME T74	QUANTITY 5	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	----------------------	-----------------	---------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 8 May 18 2018 MITek Industries, Inc. Mon Aug 20 16:04:16 2018 Page 2
ID:4x7GcMEIB7cc0rWvRuzNAW-DeO1eSgIEOrWC7_eIN8bbTfivpLXDvMgwyCz

LOADING

TOTAL LOAD CASES: (18)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
AB-AA	-1445 / 7408	-38.5	-38.5 0.39 (1)	6.25	C-AF	-3021 / 623	0.50 (1)
AA-Z	-1445 / 7408	-38.5	-38.5 0.39 (1)	6.25	AF-AG	-378 / 2835	0.00 (1)
Z-Y	-1139 / 6487	-38.5	-38.5 0.36 (1)	6.25			
Y-X	-1034 / 6708	-38.5	-38.5 0.36 (1)	6.25			
X-W	-1034 / 6708	-38.5	-38.5 0.36 (1)	6.25			
W-V	-1339 / 7977	-38.5	-38.5 0.41 (1)	6.25			
V-U	-1771 / 9539	-38.5	-38.5 0.51 (1)	6.25			
U-T	-1771 / 9539	-38.5	-38.5 0.51 (1)	6.25			
T-S	-2398 / 12107	-38.5	-38.5 0.70 (3)	6.25			
S-R	-1991 / 8048	-38.5	-38.5 0.51 (3)	6.25			
R-Q	-11 / 23	-38.5	-38.5 0.08 (4)	6.25			

JSI GRIP= 0.90 (M) (INPUT = 0.90)
JSI METAL= 0.94 (Q) (INPUT = 1.00)

**TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING
AS PER NBCC 4.1.6.2.01**

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, C_{pe} , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN) AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.



DWG NO. TAM **11805317**
STRUCTURAL
CCANON/ST/2017/7/2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	G74A	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 15:08:43 2018 Page 2
ID:4x7GoMEIB7acDrWgvRwqzNtAW-pHEIKdUIMqIYXlcc3dIQ4Y5INK71nHC7YQ8VYk2w

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
AP-AO	-53 / 0	-38.5	-38.5 0.01 (3)	6.25			
AO-AN	-50 / 0	-38.5	-38.5 0.01 (3)	6.25			
AN-AM	-48 / 0	-38.5	-38.5 0.01 (3)	6.25			
AM-AL	-43 / 0	-38.5	-38.5 0.01 (3)	6.25			
AL-AK	-43 / 0	-38.5	-38.5 0.01 (3)	6.25			
AK-AJ	-38 / 0	-38.5	-38.5 0.01 (3)	6.25			
AJ-AI	-33 / 0	-38.5	-38.5 0.01 (3)	6.25			
AI-AH	-28 / 0	-38.5	-38.5 0.01 (3)	6.25			
AH-AG	-19 / 0	-38.5	-38.5 0.01 (3)	6.25			
AG-AF	-22 / 0	-38.5	-38.5 0.01 (3)	6.25			
AF-AE	-22 / 0	-38.5	-38.5 0.01 (3)	6.25			
AE-AD	-22 / 0	-38.5	-38.5 0.01 (3)	6.25			
AD-AC	0 / 0	-38.5	-38.5 0.01 (3)	10.00			



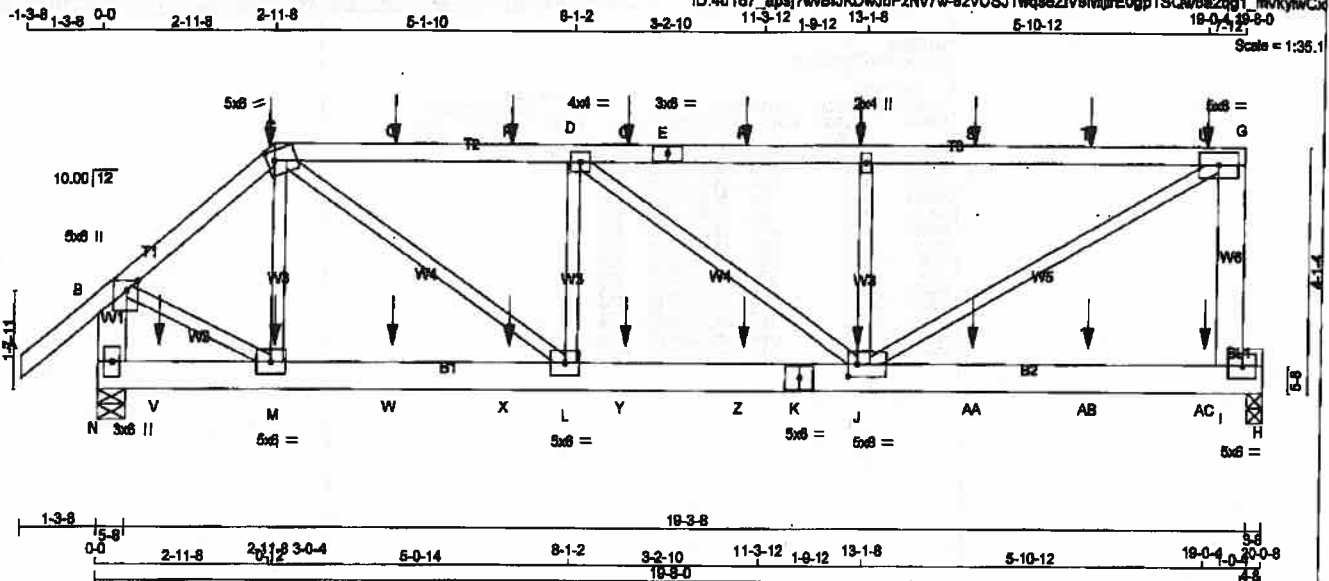
DWG NO. TAM 1165298
STRUCTURAL
COMPONENT ONLY 3/2



JOB NAME 297082	TRUSS NAME T101	QUANTITY 2	PLY 2	JOB DESC. TRUSS DESC.	DRAWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	-----------

Tamarack Roof Truss, Burlington

Version 8.210 5 May 18 2018 MITek Industries, Inc. Mon Aug 20 16:04:18 2018 Page 1
ID:4u167_aps7wvBjKDWbPzNv7w-8zVUSJTwsqZV9MjE0gpT9Qw8e2gg1_mvkywCk



LUMBER			
CHORDS	SIZE	DRY	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
I - G	2x6	DRY	No.2
N - B	2x6	DRY	No.2
N - K	2x6	DRY	No.2
K - H	2x6	DRY	No.2

BEARING BLOCKS			
BL1	2x4	DRY	No.2

ALL WEBS EXCEPT			
	2x3	DRY	No.2

DRY: SEASONED LUMBER.
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122'x3") SPIRAL NAILS		
A-C	12	SIDE (81.0)
E-G	12	SIDE (81.0)
I-G	12	SIDE (81.0)
N-B	12	TOP
N-K	12	TOP
K-H	12	SIDE (183.1)
BOTTOM CHORDS: (0.122'x3") SPIRAL NAILS		
N-K	12	SIDE (183.1)
K-H	12	SIDE (183.1)
WEBS: (0.122'x3") SPIRAL NAILS		
M-C	6	SIDE (12.6)
2x6	6	
2x4	6	

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.

PLATE TYPE	PLATES	W	LEN	Y	X
JT	TMVW+p	MT20	5.0	8.0	2.00 2.25
C	TTWW-m	MT20	5.0	8.0	2.00 1.50
D	TMVW-i	MT20	4.0	4.0	
E	TS-i	MT20	3.0	6.0	
F	TMVW-w	MT20	2.0	4.0	
G	TMVW-i	MT20	5.0	8.0	
I	BMVK-i	MT20	5.0	8.0	
J	BMVWV-i	MT20	5.0	8.0	2.50 2.00
K	BS-i	MT20	5.0	8.0	
L	BMVW-i	MT20	6.0	8.0	
M	BMVW-i	MT20	6.0	8.0	
N	BMV-i+p	MT20	3.0	6.0	

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

FACTORED			
GROSS REACTION	MAXIMUM FACTORED	INPUT	REQD
JT VERT	DOWN	BRG	BRG
N 3011	0	0	5-8
H 2765	0	0	3-8

UNFACTORED REACTIONS			
1ST CASE	MAX. MIN. COMPONENT REACTIONS		
JT COMBINED	SNOW	LIVE	PERM. LIVE
N 2185	1428 / 0	360 / 0	0 / 0
H 2027	1283 / 0	360 / 0	0 / 0

BEARING MATERIAL TO BE 6PF NO.2 OR BETTER AT JOINT(S) N, H

SPACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. UNBRACED LENGTH (LBS)
FR-TO			
A-B	0 / 57	-129.7 -129.7	0.10 (1)
B-C	-2740 / 0	-129.7 -129.7	0.14 (1)
C-D	-3687 / 0	-129.7 -129.7	0.48 (1)
D-E	-3687 / 0	-129.7 -129.7	0.48 (1)
E-F	-3687 / 0	-129.7 -129.7	0.48 (1)
F-G	-3687 / 0	-129.7 -129.7	0.48 (1)
G-H	-3687 / 0	-129.7 -129.7	0.48 (1)
H-I	-3687 / 0	-129.7 -129.7	0.48 (1)
I-J	-3687 / 0	-129.7 -129.7	0.48 (1)
J-K	-3687 / 0	-129.7 -129.7	0.48 (1)
K-L	-3687 / 0	-129.7 -129.7	0.48 (1)
L-M	-3687 / 0	-129.7 -129.7	0.48 (1)
M-N	-3687 / 0	-129.7 -129.7	0.48 (1)
N-O	-3687 / 0	-129.7 -129.7	0.48 (1)
O-P	-3687 / 0	-129.7 -129.7	0.48 (1)
P-Q	-3687 / 0	-129.7 -129.7	0.48 (1)
Q-R	-3687 / 0	-129.7 -129.7	0.48 (1)
R-S	-3687 / 0	-129.7 -129.7	0.48 (1)
S-T	-3687 / 0	-129.7 -129.7	0.48 (1)
T-U	-3687 / 0	-129.7 -129.7	0.48 (1)
U-V	-3687 / 0	-129.7 -129.7	0.48 (1)
V-W	-3687 / 0	-129.7 -129.7	0.48 (1)
W-X	-3687 / 0	-129.7 -129.7	0.48 (1)
X-Y	-3687 / 0	-129.7 -129.7	0.48 (1)
Y-Z	-3687 / 0	-129.7 -129.7	0.48 (1)
Z-A	-3687 / 0	-129.7 -129.7	0.48 (1)
A-B	-3687 / 0	-129.7 -129.7	0.48 (1)
B-C	-3687 / 0	-129.7 -129.7	0.48 (1)
C-D	-3687 / 0	-129.7 -129.7	0.48 (1)
D-E	-3687 / 0	-129.7 -129.7	0.48 (1)
E-F	-3687 / 0	-129.7 -129.7	0.48 (1)
F-G	-3687 / 0	-129.7 -129.7	0.48 (1)
G-H	-3687 / 0	-129.7 -129.7	0.48 (1)
H-I	-3687 / 0	-129.7 -129.7	0.48 (1)
I-J	-3687 / 0	-129.7 -129.7	0.48 (1)
J-K	-3687 / 0	-129.7 -129.7	0.48 (1)
K-L	-3687 / 0	-129.7 -129.7	0.48 (1)
L-M	-3687 / 0	-129.7 -129.7	0.48 (1)
M-N	-3687 / 0	-129.7 -129.7	0.48 (1)
N-O	-3687 / 0	-129.7 -129.7	0.48 (1)
O-P	-3687 / 0	-129.7 -129.7	0.48 (1)
P-Q	-3687 / 0	-129.7 -129.7	0.48 (1)
Q-R	-3687 / 0	-129.7 -129.7	0.48 (1)
R-S	-3687 / 0	-129.7 -129.7	0.48 (1)
S-T	-3687 / 0	-129.7 -129.7	0.48 (1)
T-U	-3687 / 0	-129.7 -129.7	0.48 (1)
U-V	-3687 / 0	-129.7 -129.7	0.48 (1)
V-W	-3687 / 0	-129.7 -129.7	0.48 (1)
W-X	-3687 / 0	-129.7 -129.7	0.48 (1)
X-Y	-3687 / 0	-129.7 -129.7	0.48 (1)
Y-Z	-3687 / 0	-129.7 -129.7	0.48 (1)
Z-A	-3687 / 0	-129.7 -129.7	0.48 (1)

SPECIFIED CONCENTRATED LOADS (LBS)			
JT	LOC.	LC1	MAX.
C	2-11-8	-28	-28
C	2-11-8	-148	-148
C	2-11-8	-176	-176
F	13-0-4	-108	-108
J	13-0-4	-38	-38
M	3-0-4	-44	-44
O	5-0-4	-108	-108
P	7-0-4	-108	-108

TOTAL WEIGHT = 4 X 06 = 368 LB

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

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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

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

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

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

(55 % OF 64.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/880 (0.87")
CALCULATED VERT. DEFL.(LL) = 1/998 (0.13")
ALLOWABLE DEFL.(TL) = L/880 (0.87")
CALCULATED VERT. DEFL.(TL) = 1/998 (0.20")

CSI: TC=0.78/1.00 (F-G-1), BC=0.60/1.00 (H-I-1), WB=0.55/1.00 (G-J-1), SS=0.58/1.00 (H-I-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1867 788 1867 1868

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.80 (C) (INPUT = 0.80)
JSI METAL= 0.43 (K) (INPUT = 1.00)

CONTINUED ON PAGE 2



JOB NAME 297082	TRUSS NAME T101	QUANTITY 2	PLY 2	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamaseck Roof Truss, Burlington

Version 8.210 5 May 18 2018 Mitek Industries, Inc. Mon Aug 20 18:04:18 2018 Page 2
ID:4u167_ape7wv8fUKDwJbPzN7w-9zVUSjTwqeeZV9MibE0geTSQv8a2qr1.mvlywCv

HANGER NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S)
REQUIRED TO SUPPORT CONCENTRATED
LOAD(S) 516.8 lbs FACTORED DOWN AT 2-11-8.
158.1 lbs FACTORED DOWN AT 5-0-4, 158.1 lbs
FACTORED DOWN AT 7-0-4, 158.1 lbs
FACTORED DOWN AT 9-0-4, 158.1 lbs
FACTORED DOWN AT 11-0-4, 158.1 lbs
FACTORED DOWN AT 13-0-4, 158.1 lbs
FACTORED DOWN AT 15-0-4, AND 158.1 lbs
FACTORED DOWN AT 17-0-4, AND 178.9 lbs
FACTORED DOWN AT 19-0-4 ON TOP CHORD,
AND 54.8 lbs FACTORED DOWN AT 1-0-4, 61.9
lbs FACTORED DOWN AT 3-0-4, 64.9 lbs
FACTORED DOWN AT 5-0-4, 64.9 lbs
FACTORED DOWN AT 7-0-4, 64.9 lbs
FACTORED DOWN AT 9-0-4, 64.8 lbs
FACTORED DOWN AT 11-0-4, 64.8 lbs
FACTORED DOWN AT 13-0-4, 64.9 lbs
FACTORED DOWN AT 15-0-4, AND 64.9 lbs
FACTORED DOWN AT 17-0-4, AND 57.8 lbs
FACTORED DOWN AT 19-0-4 ON BOTTOM
CHORD. DESIGN FOR UNSPECIFIED
CONNECTION(S) IS DELEGATED TO THE
BUILDING DESIGNER.

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
Q	8-0-4	-108	-108	—	FRONT	VERT	TOTAL
R	11-0-4	-108	-108	—	FRONT	VERT	TOTAL
S	15-0-4	-108	-108	—	FRONT	VERT	TOTAL
T	17-0-4	-108	-108	—	FRONT	VERT	TOTAL
U	19-0-4	-122	-122	—	FRONT	VERT	TOTAL
V	1-0-4	-38	-38	—	FRONT	VERT	TOTAL
W	5-0-4	-38	-38	—	FRONT	VERT	TOTAL
X	7-0-4	-38	-38	—	FRONT	VERT	TOTAL
Y	9-0-4	-38	-38	—	FRONT	VERT	TOTAL
Z	11-0-4	-38	-38	—	FRONT	VERT	TOTAL
AA	15-0-4	-38	-38	—	FRONT	VERT	TOTAL
AB	17-0-4	-38	-38	—	FRONT	VERT	TOTAL
AC	19-0-4	-40	-40	—	FRONT	VERT	TOTAL

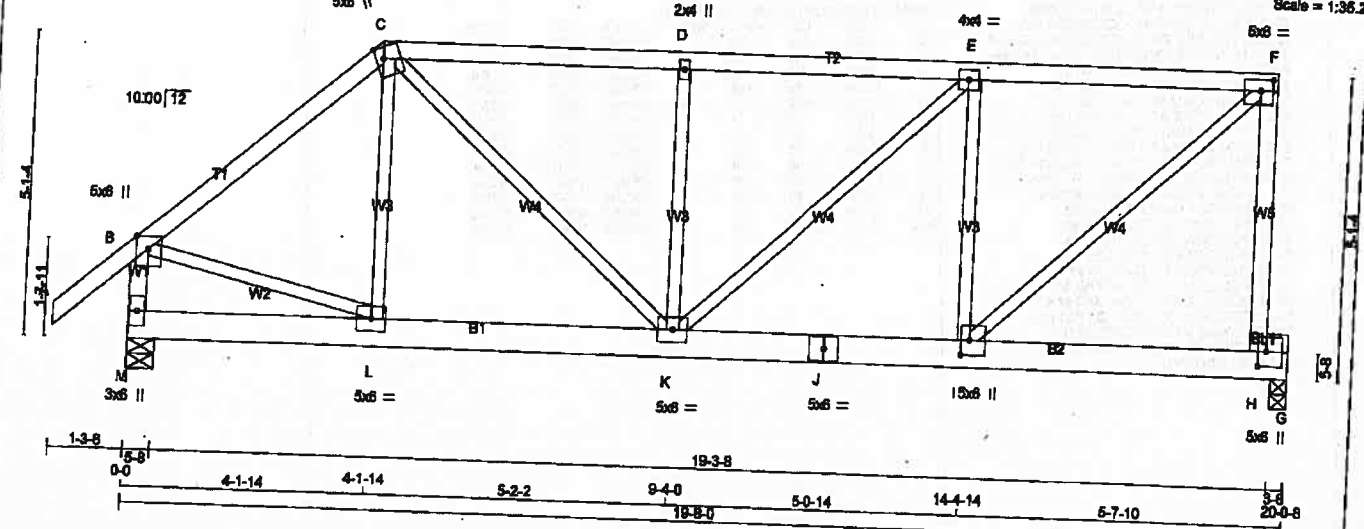


DWG NO. TAM 11805318
STRUCTURAL
CONSTRUCTION ONLY 2/2



JOB NAME 297082	TRUSS NAME T102	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	----------

Version 8.210.8 May 18 2016 Mtek Industries, Inc. Mon Aug 20 16:04:16 2016 Page 1
ID:4u187_apaj?wvBfJKDwJbPzNv7W-d83agfUYb9mQmKYGQ4mDD?Qank2A2vHJRByWCo
1-3-8 1-3-8 0-0 4-1-14 4-1-14 5-2-2 9-4-0 5-0-14 14-4-14 5-3-2 19-8-0
Scale = 1:35.2



LUMBER			
N.L.G.A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
H - F	2x4	DRY	No.2
M - B	2x4	DRY	No.2
M - J	2x6	DRY	No.2
J - G	2x6	DRY	No.2
BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS			
EXCEPT	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (Table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMWV+p	MT20	5.0	8.0 Edge
C	TTWW+m	MT20	5.0	8.0 2.25 1.50
D	TMWV+w	MT20	2.0	4.0
E	TMWV+1	MT20	4.0	4.0
F	TMWV+1	MT20	5.0	8.0 2.25 2.50
H	BMVW+p	MT20	5.0	8.0 3.00 1.75
I	BMVW+1	MT20	5.0	8.0 3.00 1.75
J	BS-1	MT20	5.0	8.0
K	BMVW+1	MT20	5.0	8.0
L	BMVW+1	MT20	5.0	8.0
M	BMV1+p	MT20	3.0	8.0

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		REQ'D	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
M	1864	0	1864	0	0	5-8	5-8	5-8	5-8
G	1637	0	1637	0	0	3-8	3-8	3-8	3-8

UNFACTORED REACTIONS									
		1ST CASE		MAX/MIN COMPONENT REACTIONS		PERM. LIVE		WIND	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
M	1389	872/0	210/0	0/0	0/0	277/0	0/0		
G	1204	738/0	210/0	0/0	0/0	258/0	0/0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.		MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX. UNBRAC	MEMB.		MAX. FACTORED	MAX
		FORCE	(PLF)	CS1 (LC)	LENGTH			FORCE	CS1 (LC)
		(LBS)	FROM TO	CS1 (LC)	FR-TO			(LBS)	CS1 (LC)
A-B	0/157		-128.7	-128.7	0.18 (1)	10.00	L-C	-118/128	0.04 (1)
B-C	-1572/0		-128.7	-128.7	0.48 (1)	4.71	B-L	0/1253	0.28 (1)
C-D	-1836/0		-128.7	-128.7	0.53 (1)	4.30	F	0/2188	0.49 (1)
D-E	-1836/0		-128.7	-128.7	0.39 (1)	4.26	C-K	0/658	0.18 (1)
E-F	-1572/0		-128.7	-128.7	0.54 (1)	4.56	I-E	-982/0	0.35 (1)
F-G	-1740/0		0.0	0.0	0.70 (1)	6.32	K-D	-717/0	0.26 (1)
G-H	-1805/0		0.0	0.0	0.19 (1)	8.23	K-E	0/380	0.08 (1)
M-L	0/0		-38.5	-38.5	0.06 (2)	10.00			
L-K	0/1202		-38.5	-38.5	0.21 (1)	10.00			
K-J	0/1572		-38.5	-38.5	0.37 (1)	10.00			
J-I	0/1572		-38.5	-38.5	0.37 (1)	10.00			
I-H	-54/0		-38.5	-38.5	0.57 (1)	6.25			
H-G	0/0		-38.5	-38.5	0.36 (1)	10.00			

TOTAL WEIGHT = 2 X 88 = 187 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 8, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 8 OF OBC 2012, OBC 2018
- CSA 088-08, CSA 088-14
- TPC 2011, TPC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (LL) = $L/998$ (0.08")
ALLOWABLE DEFL. (TL) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (TL) = $L/899$ (0.14")

CS1 TC=0.70/1.00 (F-H:1), BC=0.57/1.00 (H-I:1)
WS=0.48/1.00 (F-I:1), SS=0.82/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION			
(PSI)	(PL)	(PL)	(PL)			
MAX	MIN	MAX	MIN			
MT20	618	354	1687	788	1987	1688

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (C) (INPUT = 0.90)
JSI METAL = 0.82 (B) (INPUT = 1.00)

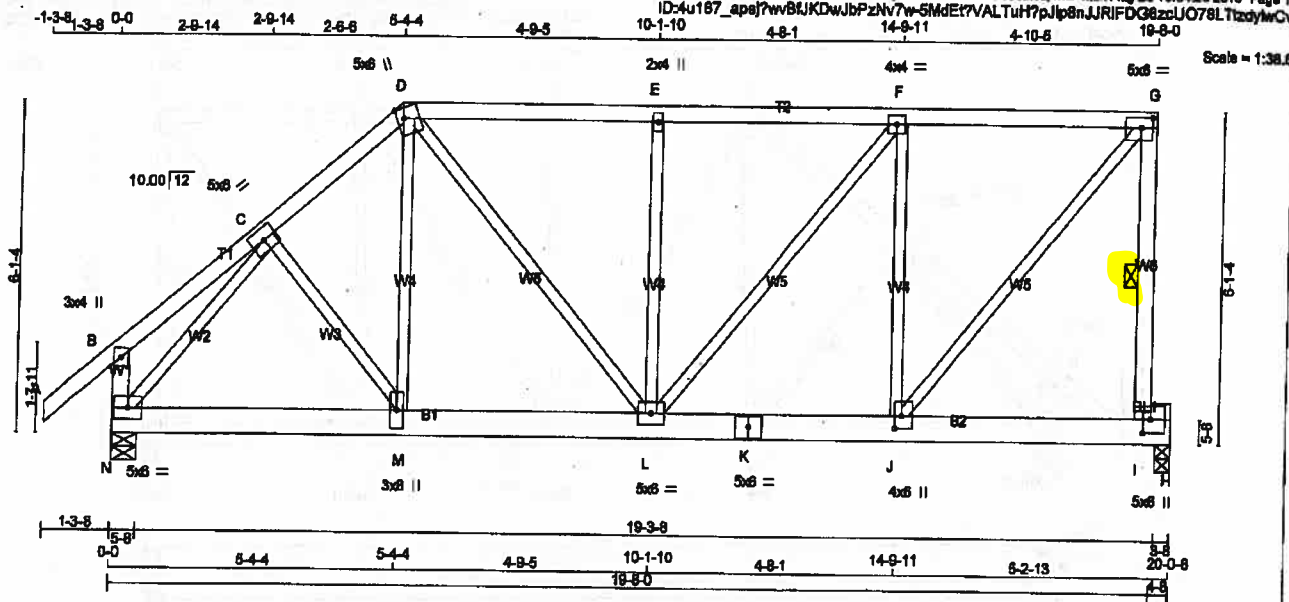
DWG NO. TAM 11805319
STRUCTURAL
CONSTRUCTION





JOB NAME 297082	TRUSS NAME T103	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington Version 8.210 8 May 18 2018 MITek Industries, Inc. Mon Aug 20 16:04:20 2018 Page 1



TOTAL WEIGHT = 2 X 107 = 213 lb

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

BEARING BLOCKS					
BL1	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					

DRY: SEASONED LUMBER.

PLATES	TYPE	PLATES	W	LEN	Y	X
JT	TMW	MT20	3.0	4.0		
B	TMW	MT20	5.0	8.0		
C	TMW	MT20	5.0	8.0	2.25	1.50
D	TMW	MT20	5.0	8.0		
E	TMW	MT20	5.0	8.0		
F	TMW	MT20	5.0	8.0		
G	TMW	MT20	5.0	8.0	2.25	2.50
H	TMW	MT20	5.0	8.0		
I	TMW	MT20	5.0	8.0		
J	TMW	MT20	5.0	8.0	3.00	1.75
K	TMW	MT20	5.0	8.0		
L	TMW	MT20	5.0	8.0	2.75	1.50
M	TMW	MT20	5.0	8.0		
N	TMW	MT20	5.0	8.0		

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
DOWN	DOWN	IN-SX	IN-SX
UP	UP	IN-SX	IN-SX
JT	1637	0	0
H	1637	0	0
N	1637	0	0

1ST CASE	MAX MIN COMPONENT REACTIONS
JT	COMBINED
H	1204
N	1389

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 4.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MEMB.	FORCE
FR-TO	(LBS)	(PLF)	CSI (LC)	FR-TO	(LBS)
A-B	0/167	-129.7	-129.7 0.18 (1)	M-D	0/230
B-C	0/22	-129.7	-129.7 0.13 (1)	C-M	0/103
C-D	-1558/0	-129.7	-129.7 0.18 (1)	J-G	0/197
D-E	-1512/0	-129.7	-129.7 0.43 (1)	D-L	0/120
E-F	-1512/0	-129.7	-129.7 0.45 (1)	J-F	-1021/0
F-G	-1234/0	-129.7	-129.7 0.43 (1)	L-E	-860/0
L-G	-1784/0	0.0	0.0 0.30 (1)	L-F	0/440
N-B	-320/0	0.0	0.0 0.08 (1)	N-C	-1846/0
N-M	0/1133	-38.5	-38.5 0.20 (1)		
M-L	0/1179	-38.5	-38.5 0.21 (1)		
L-K	0/1234	-38.5	-38.5 0.33 (1)		
K-J	0/1234	-38.5	-38.5 0.33 (1)		
J-I	-45/0	-38.5	-38.5 0.57 (1)		
I-H	0/0	-38.5	-38.5 0.35 (1)		

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. GC

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 8, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 8 OF CBC 2012, CSC 2018
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(58% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")
CALCULATED VERT. DEFL.(LL) = 1/686 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = 1/689 (0.12")

CSI: TC=0.45/1.00 (E-F:1), SC=0.57/1.00 (H-I:1), WB=0.58/1.00 (C-N:1), SS=0.80/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

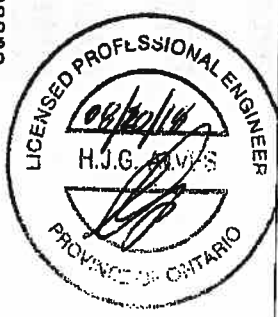
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (RY) SHEAR SECTION
(PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1837 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.80)
JSI METAL= 0.98 (J) (INPUT = 1.00)

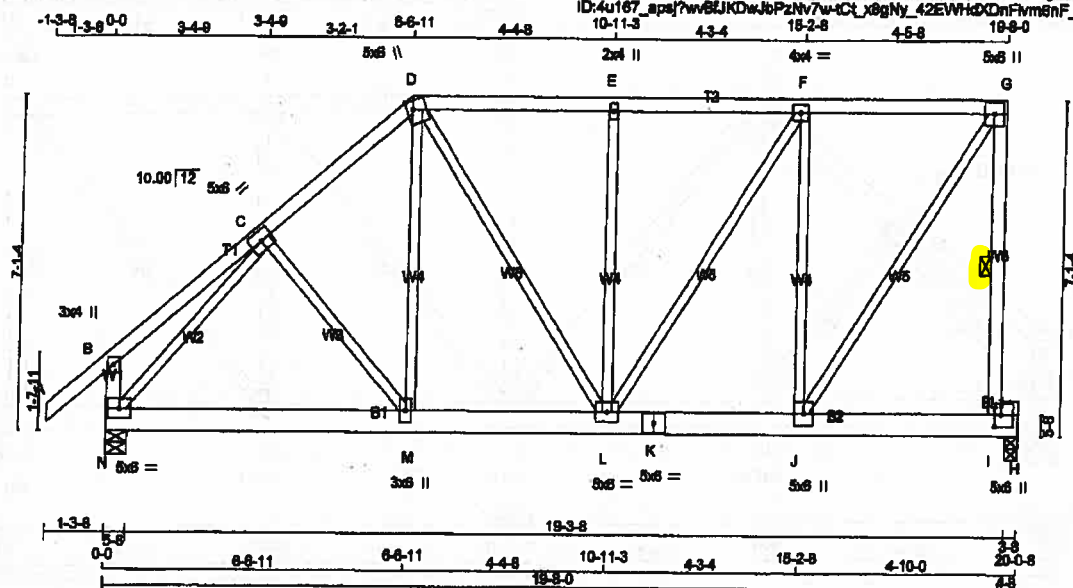


DWG NO. TAM 71605320
STRUCTURAL
CHECKED BY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297081	T104	2	1	TRUSS DESC.	

Temarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MediaTek Inc. Mon Aug 20 11:16:17 2018



Scale = 1:44.4

TOTAL WEIGHT = 2 X 113 = 227 lb

LUMBER			
N. L. G. A. RULES			
CHOIRS	SIZE	LUMBER	DESCR
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
I - G	2x4	DRY	No.2
N - B	2x4	DRY	No.2
N - K	2x6	DRY	No.2
K - H	2x6	DRY	No.2

BEARING BLOCKS				
BL1	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY, SEASONED LUMBER.

PLATES (Data in % wet weight)						
JT	TYPE	PLATES	W	LEN	Y	X
T	TMMW+p	MT20	3.0	4.0		
C	TMMW+p	MT20	5.0	6.0		
D	TMMW+p	MT20	5.0	6.0	2.25	1.50
F	TMMW+w	MT20	2.0	4.0		
G	TMMW+p	MT20	4.0	4.0		
I	TMMW+p	MT20	5.0	6.0		
J	BMVW+p	MT20	5.0	6.0	3.00	1.75
K	BMVW+p	MT20	5.0	6.0		
L	BS-1	MT20	5.0	6.0		
M	BS-1	MT20	5.0	6.0		
N	BS-1	MT20	5.0	6.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REGRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	N-SX	N-SX
N	1884	0	1884	0	0	5-8	5-8
H	1637	0	1637	0	0	3-8	3-8

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1359	572 / 0	210 / 0	0 / 0	0 / 0	277 / 0	0 / 0
H	1204	738 / 0	210 / 0	0 / 0	0 / 0	258 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-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				WEBBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (I)	MAX UNBRAC LENGTH (I)	MEMB.	MAX FACTORED FORCE (LBS)	MAX LC1 (I)
FR-TO		FROM TO			FR-TO		
A-B	0/57	-128.7 -128.7	0.18 (1)	10.00	C-M	-68/70	0.03 (1)
B-C	0/30	-128.7 -128.7	0.21 (1)	10.00	M-D	0/353	0.08 (2)
C-D	-1498/0	-128.7 -128.7	0.28 (1)	6.08	N-C	-1834/0	0.73 (1)
D-E	-1287/0	-128.7 -128.7	0.38 (1)	8.27	J-L	0/1688	0.42 (1)
E-F	-1288/0	-128.7 -128.7	0.38 (1)	8.25	D-L	0/251	0.08 (1)
F-G	-982/0	-128.7 -128.7	0.35 (1)	5.77	L-E	-1068/0	0.67 (1)
G-H	-1791/0	0.0 0.0	0.39 (1)	4.86	L-F	-804/0	0.48 (1)
H-B	-343/0	0.0 0.0	0.04 (1)	7.61	L-F	0/514	0.12 (1)
N-M	0/1160	-38.5 -38.5	0.24 (2)	10.00			
M-L	0/1131	-38.5 -38.5	0.23 (2)	10.00			
L-K	0/982	-38.5 -38.5	0.28 (1)	10.00			
K-J	0/982	-38.5 -38.5	0.29 (1)	10.00			
J-I	-39/0	-38.5 -38.5	0.57 (1)	6.25			
I-H	0/0	-38.5 -38.5	0.35 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	38.2	PBF
	DL	=	8.0	PBF
BOT CH.	LL	=	10.6	PBF
	DL	=	7.0	PBF
TOTAL LOAD		=	61.7	PBF

BRGNO = **24.9 IN.CP**

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 8, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 8 OF OBC 2012, OBC 20
- CSA 088-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 84.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")
CALCULATED VERT. DEFL.(LL) = L/999 (0.66")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CS: TC=0.39/1.00 (G-I:1), BC=0.57/1.00 (J-K:1),
WB=0.87/1.00 (F-J:1), SS=0.60/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

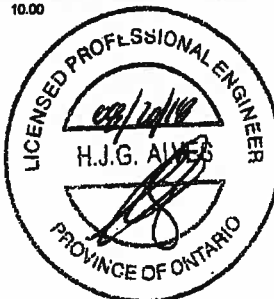
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES					
PLATE	GRIP (DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1867	788	1987 1556

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)
JSI METAL= 0.48 (C) (INPUT = 1.00)



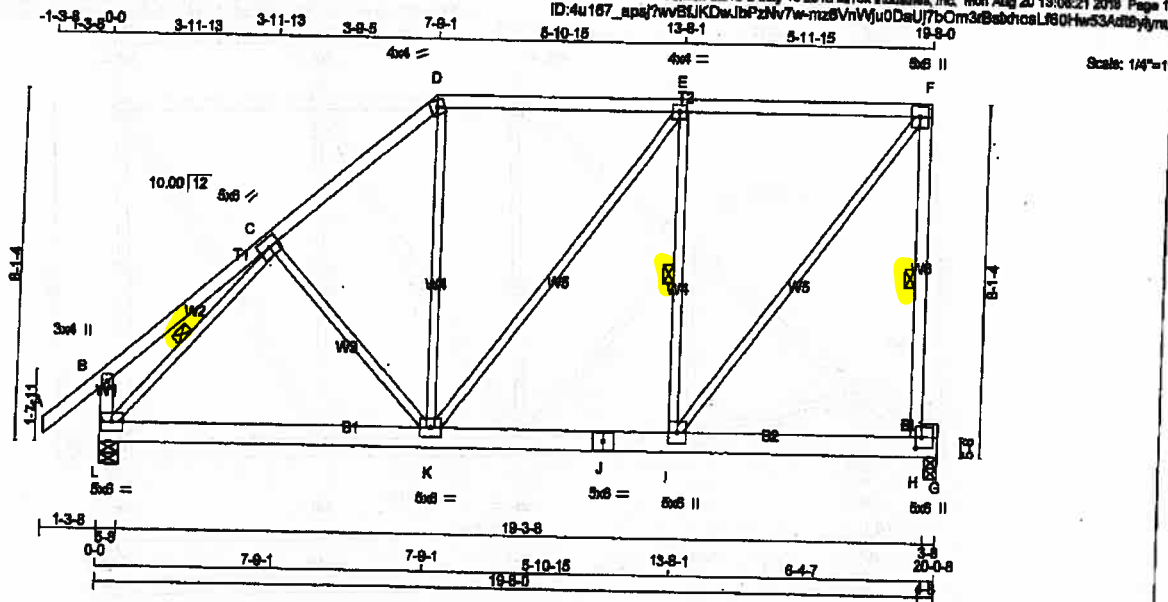
DWG NO. TAM 17605277
STRUCTURAL
COMPONENT ONLY



JOB NAME 297081	TRUSS NAME T105	QUANTITY 4	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	----------

Paradeck Roof Truss, Burlington

Version 8.210 5 May 16 2016 Lintek Industries, Inc. Mon Aug 20 13:06:21 2018 Page 1
ID:4u167_aps?wvBfJKDeJbPzNv7w-mz6VnVju0DeU7bCm3BabncaL60Hw53Actblymu



TOTAL WEIGHT = 4 X 108 = 432 lb

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

BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS			
EXCEPT	2x3	DRY	No.2

DRY, SEASONED LUMBER.

DESCR.	SPF
JT	SPF
L	SPF
G	SPF

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
JT	VERT	JT	VERT	IN-SX	IN-SX	IN-SX	IN-SX
L	1884	0	1884	0	0	5-8	5-8
G	1837	0	1837	0	0	3-8	3-8

UNFACTORED REACTIONS		MAXIMUM COMPONENT REACTIONS	
JT	COMBINED	JT	COMBINED
L	1359	872/0	210/0
G	1204	738/0	210/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADINGS
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/167	-128.7 -128.7	0.18 (1)	10.00	C-K	-182/42	0.12 (1)
B-C	0/137	-128.7 -128.7	0.31 (1)	10.00	K-D	0/401	0.09 (2)
C-D	-1410/0	-128.7 -128.7	0.38 (1)	5.08	K-E	0/156	0.01 (3)
D-E	-1057/0	-128.7 -128.7	0.84 (1)	4.43	E-F	-897/0	0.38 (1)
E-F	-1057/0	-128.7 -128.7	0.84 (1)	4.43	F-G	0/1777	0.40 (1)
H-F	-1688/0	0.0 0.0	0.48 (1)	5.10	L-C	-1801/0	0.44 (1)
L-B	-371/0	0.0 0.0	0.04 (1)	7.81			
L-K	0/1181	-38.5 -38.5	0.30 (2)	10.00			
K-J	0/1057	-38.5 -38.5	0.32 (1)	10.00			
J-I	0/1057	-38.5 -38.5	0.32 (1)	10.00			
I-H	-32/0	-38.5 -38.5	0.57 (1)	8.25			
H-G	0/0	-38.5 -38.5	0.35 (1)	10.00			

JT TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	3.0	4.0	
C	TMWV-H	MT20	5.0	8.0	
D	TTW-m	MT20	4.0	4.0	
E	TMWV-H	MT20	4.0	4.0	
F	TMWV-p	MT20	5.0	8.0	
H	BMWV-p	MT20	5.0	8.0	3.00 1.75
I	BMWV-H	MT20	5.0	8.0	
J	BS-H	MT20	5.0	8.0	
K	BMWV-H	MT20	5.0	8.0	
L	BMWV-H	MT20	5.0	8.0	

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. GC

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, NBC 2010, NBC 2015

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

(55 % OF 64.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 58.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = 1/360 (0.67)
CALCULATED VERT. DEFL.(LL) = 1/989 (0.10)
ALLOWABLE DEFL.(TL) = 1/260 (0.67)
CALCULATED VERT. DEFL.(TL) = 1/989 (0.10)

CS: TC=0.84/1.00 (E-F-I), BC=0.57/1.00 (H-I), WB=0.44/1.00 (C-L), SS=0.60/1.00 (G-H-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)
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1887	788	1987

PLATE PLACEMENT TOL = 0.250 inches

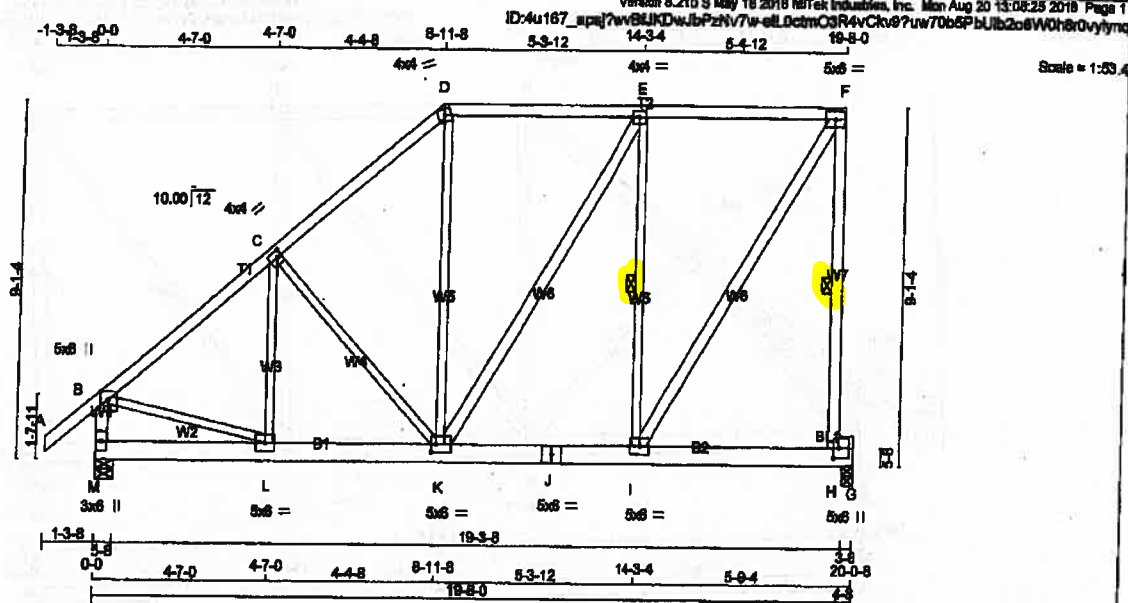
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.85 (I) (INPUT = 0.90)
JSI METAL=0.44 (C) (INPUT = 1.00)



DWG NO. TAM **T105278**
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297081	T106	10	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					



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

BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
K - E	2x4	DRY	No.2
I - F	2x4	DRY	No.2

DRY: SEASONED LUMBER

PLATES (double in brackets)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMWV+p	MT20	8.0	8.0	2.80 2.25
C	TMWV-t	MT20	4.0	4.0	2.00 1.25
D	TTW-m		4.0	4.0	
E	TMWV-t	MT20	4.0	4.0	
F	TMWV-t		3.0	8.0	
H	BMVX+p		5.0	6.0	3.00 1.75
I	BMWV-t	MT20	5.0	6.0	
J	BS-t	MT20	5.0	6.0	
K	BMWVW-t		5.0	8.0	2.50 1.50
L	BMWV-t	MT20	5.0	6.0	
M	BMV-t+p	MT20	3.0	6.0	

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

JT M G	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	1884	0	1884	0	0	5-8	5-8
	1837	0	1837	0	0	3-8	3-8

UNFACTORED REACTIONS

16T LOOSE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOL
M	1269	872/0	210/0	0/0	0/0	277/0	0/0
G	1204	738/0	210/0	0/0	0/0	258/0	0/0

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

FRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 4.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(B) AT 1/2 LENGTH OF F-H. E-I

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

DATING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEME	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEME	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
R-TO		FROM TO		LENGTH	FR-TO		
L-B	0/57	-129.7 -129.7	0.18 (1)	10.00	L-C	-137 / 120	0.06 (1)
L-B	-1589 / 0	-129.7 -129.7	0.62 (1)	4.61	C-K	-453 / 0	0.37 (1)
L-D	-1285 / 0	-126.7 -126.7	0.49 (1)	5.03	K-D	0 / 332	0.07 (2)
L-E	-988 / 0	-128.7 -128.7	0.66 (1)	5.18	K-E	0 / 149	0.02 (1)
L-F	-879 / 0	-126.7 -129.7	0.65 (1)	5.39	L-E	-988 / 0	0.51 (1)
L-F	-1736 / 0	0.0 0.0	0.84 (1)	5.05	L-F	0 / 1727	0.28 (1)
L-B	-1788 / 0	0.0 0.0	0.18 (1)	8.25	B-L	0 / 1296	0.29 (1)
L-K	0 / 0	-38.5 -38.5	0.08 (2)	10.00			
L-K	0 / 1232	-38.5 -38.5	0.20 (1)	10.00			
L-J	0 / 879	-38.5 -38.5	0.31 (1)	10.00			
L-I	0 / 879	-38.5 -38.5	0.31 (1)	10.00			
L-H	-26 / 0	-38.5 -38.5	0.57 (1)	8.25			
L-G	0 / 0	-38.5 -38.5	0.35 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL	=	38.2	PGF
		CL	=	8.0	PGF
BOT	CH.	LL	=	10.5	PGF
		CL	=	7.0	PGF
TOTAL LOAD				=	61.7

SEACING - 24.0 IN. OC

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 8 OF OBC 2012, OBC 2018
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= 1/360 (0.67")
CALCULATED VERT. DEFL.(LL) = 1/898 (0.08")
ALLOWABLE DEFL.(TL)= 1/360 (0.67")
CALCULATED VERT. DEFL.(TL) = 1/898 (0.15")

CB±TC=0.68/1.00 (D-E:1), BC=0.57/1.00 (H±1),
WB=0.51/1.00 (E±1), SS=0.60/1.00 (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

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

NAIL VALUES	GRIP (DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1687	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

```

JBI GRIP= 0.88 (F) (INPUT = 0.80 )
JBI METAL= 0.36 (F) (INPUT = 1.00 )

```

DWG NO. TAM 1105279
STRUCTURAL
COMPONENT ONLY

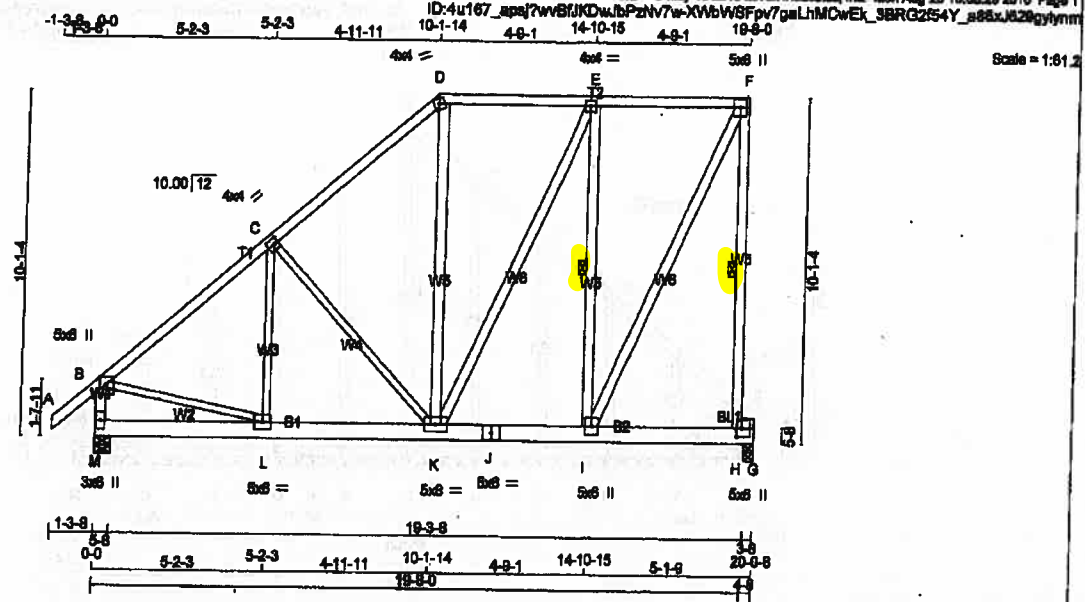




JOB NAME 297081	TRUSS NAME T107	QUANTITY 5	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	----------

Hamersack Roof Truss, Burlington

Version 8.210 8 May 18 2018 Mitek Industries, Inc. Mon Aug 20 13:08:28 2018 Page 1



LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
H - F	2x4	DRY	No.2
M - B	2x4	DRY	No.2
M - J	2x6	DRY	No.2
J - G	2x6	DRY	No.2
BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS			
EXCEPT	2x4	DRY	No.2
L - C	2x3	DRY	No.2
C - K	2x3	DRY	No.2
B - L	2x3	DRY	No.2

DRY: SEASONED LUMBER.

JT TYPE	PLATES	W	LEN	Y	X
B	TMWV+p	MT20	5.0	8.0	2.80 2.25
C	TMWV-H	MT20	4.0	4.0	2.00 1.25
D	TTW-m	MT20	4.0	4.0	
E	TMWV-H	MT20	4.0	4.0	
F	TMWV+p	MT20	5.0	8.0	
H	BMWV+p	MT20	5.0	8.0	3.00 1.75
I	BMWV-H	MT20	5.0	8.0	
J	BS-H	MT20	5.0	8.0	
K	BMWV-H	MT20	5.0	8.0	
L	BMWV-H	MT20	5.0	8.0	
M	BMV1+p	MT20	3.0	8.0	

FACTORED REACTIONS

MEMBER	FACTORED REACTION	MAXIMUM FACTORED REACTION	INPUT	RECORD
JT	VERT	GROSS REACTION	BRG	BRG
M	HORZ	DOWN	HORZ	UPLIFT
G		1837	0	0

UNFACTORED REACTIONS

MEMBER	UNFACTORED REACTION	MAX MIN COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERALIVE WIND DEAD SOIL
M		1359 872/0 210/0 0/0 0/0 277/0 0/0
G		1204 738/0 210/0 0/0 0/0 258/0 0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADINGS

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMBER	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMBER	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/57	-128.7 -128.7	0.18 (1)	10.00	L-C	-89/175	0.04 (3)
B-C	-1583/0	-128.7 -128.7	0.89 (1)	4.33	C-K	-590/0	0.84 (1)
C-D	-1177/0	-128.7 -128.7	0.84 (1)	4.82	K-D	0/286	0.04 (2)
D-E	-866/0	-128.7 -128.7	0.81 (1)	5.78	K-E	0/331	0.05 (1)
E-F	-724/0	-128.7 -128.7	0.59 (1)	6.16	I-F	-1098/0	0.81 (1)
F-H	-1788/0	0.0 0.0	0.88 (1)	5.02	I-F	0/1708	0.27 (1)
H-B	-1778/0	0.0 0.0	0.19 (1)	6.25	B-L	0/1289	0.29 (1)
M-L	0/0	-38.5 -38.5	0.09 (3)	10.00			
L-K	0/1255	-38.5 -38.5	0.21 (1)	10.00			
K-J	0/724	-38.5 -38.5	0.26 (1)	10.00			
J-I	0/724	-38.5 -38.5	0.26 (1)	10.00			
I-H	-27/0	-38.5 -38.5	0.57 (1)	6.25			
H-G	0/0	-38.5 -38.5	0.35 (1)	10.00			

TOTAL WEIGHT = 5 X 135 = 675 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.6 PSF
DL = 7.0 PSF
TOTAL LOAD = 81.7 PSF

SPACING = 24.0 INCHES

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 CBC 2012, CBC 2018
- CSA 086-08, CSA 086-14
- TPC 2011, TPC 2014

(55 % OF 84.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")
CALCULATED VERT. DEFL.(LL) = 1/869 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = 1/869 (0.11")

CS1: TC=0.08/1.00 (F-H-I), BC=0.57/1.00 (H-I-I), WS=0.04/1.00 (C-K-I), SS=0.60/1.00 (G-H-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	(FBI)	(PL)	(PL)
MT20	MAX MIN	MAX MIN	MAX MIN	MAX MIN	MAX MIN
	616 354	1867 768	1987 1656		

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.84 (B) (INPUT = 0.80)
JSI METAL= 0.35 (F) (INPUT = 1.00)



DRWG NO. TAM **11805280**
STRUCTURAL
COMPONENT ONLY



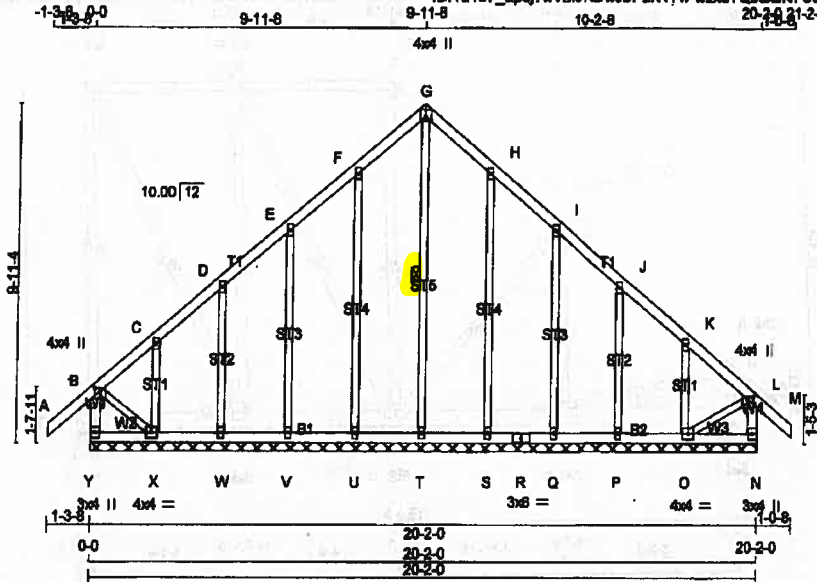
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	G108	2	1	TRUSS DESC.	

Femateck Roof Truss, Burlington

Version 8.210 8 May 18 2018 MIT Industries, Inc. Mon Aug 20 16:05:52 2018 Page 1

ID:4u167_apz?wv8J/KDwJbPzNv7w-wzoe7Q3coeNF6WAMAFHkAXbXSzh2r_7LhO?FyhuDL
9-11-8 10-2-8 20-2-8 20-2-8 21-2-8

Scale = 1:61.8



LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
Y - B	2x4	DRY	No.2
A - G	2x4	DRY	No.2
G - M	2x4	DRY	No.2
N - L	2x4	DRY	No.2
Y - R	2x4	DRY	No.2
R - N	2x4	DRY	No.2
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)				
JT TYPE	PLATES	W	LEN	Y X
B TMWw+p	MT20	4.0	4.0	1.00 2.00
C, D, E, F, H, I, J, K				
G TMWw+w	MT20	2.0	4.0	
L TMWw+p	MT20	4.0	4.0	1.60 2.00
N TMWw+p	MT20	4.0	4.0	1.00 2.00
D BMWw1+t	MT20	3.0	4.0	
P, Q, S, T, U, V, W				
R BMWw1+w	MT20	2.0	4.0	
X BS-2	MT20	3.0	8.0	
R BMWw1+t	MT20	4.0	4.0	
Y BMWw1+p	MT20	3.0	4.0	

DIMENSIONAL, 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 = 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 G-T.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (L.C.)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (L.C.)	
FR-TO		FROM TO		FR-TO			
Y-B	-424 / 0	0.0 0.0 0.06 (1)	7.81	T-G	-178 / 0	0.11 (1)	
A-B	0 / 57	-129.7 -129.7 0.18 (1)	10.00	U-F	-295 / 0	0.40 (1)	
B-C	-94 / 0	-129.7 -129.7 0.17 (1)	8.25	V-E	-248 / 0	0.18 (1)	
C-D	-42 / 0	-129.7 -129.7 0.07 (1)	6.25	W-D	-273 / 0	0.10 (1)	
D-E	-48 / 0	-129.7 -129.7 0.07 (1)	8.25	X-C	-178 / 0	0.03 (1)	
E-F	-35 / 0	-129.7 -129.7 0.07 (1)	6.25	S-H	-294 / 0	0.40 (1)	
F-G	-51 / 0	-129.7 -129.7 0.07 (1)	8.25	Q-I	-251 / 0	0.18 (1)	
G-H	-51 / 0	-129.7 -129.7 0.07 (1)	8.25	P-J	-245 / 0	0.08 (1)	
H-I	-35 / 0	-129.7 -129.7 0.07 (1)	6.25	O-K	-286 / 0	0.08 (1)	
I-J	-48 / 0	-129.7 -129.7 0.08 (1)	8.25	B-X	0 / 54	0.01 (1)	
J-K	-58 / 0	-129.7 -129.7 0.08 (1)	8.25	O-L	0 / 54	0.01 (1)	
K-L	-48 / 0	-129.7 -129.7 0.08 (1)	8.25				
L-M	0 / 47	-129.7 -129.7 0.12 (1)	10.00				
N-L	-321 / 0	0.0 0.0 0.03 (1)	7.81				
Y-X	0 / 0	-38.5 -38.5 0.03 (3)	10.00				
X-W	0 / 39	-38.5 -38.5 0.03 (2)	10.00				
W-V	0 / 34	-38.5 -38.5 0.03 (2)	10.00				
V-U	0 / 30	-38.5 -38.5 0.03 (2)	10.00				
U-T	0 / 28	-38.5 -38.5 0.03 (2)	10.00				
T-S	0 / 28	-38.5 -38.5 0.03 (2)	10.00				
S-R	0 / 30	-38.5 -38.5 0.03 (2)	10.00				
R-Q	0 / 30	-38.5 -38.5 0.03 (2)	10.00				
Q-P	0 / 34	-38.5 -38.5 0.03 (2)	10.00				
P-O	0 / 39	-38.5 -38.5 0.04 (2)	10.00				
O-N	0 / 0	-38.5 -38.5 0.03 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 INCHES

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 2012, CBC 2018
- CSA D88-09, CSA D88-14
- TPIC 2011, TPIC 2014

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

(55% OF 64.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (A-B:1), BC=0.04/1.00 (O-P:2), WB=0.40/1.00 (F-L:1), SS=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

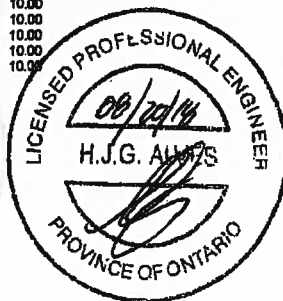
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 616 364 1887 788 1987 1688

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.72 (G) (INPUT = 0.90)
JSI METAL= 0.15 (Q) (INPUT = 1.00)

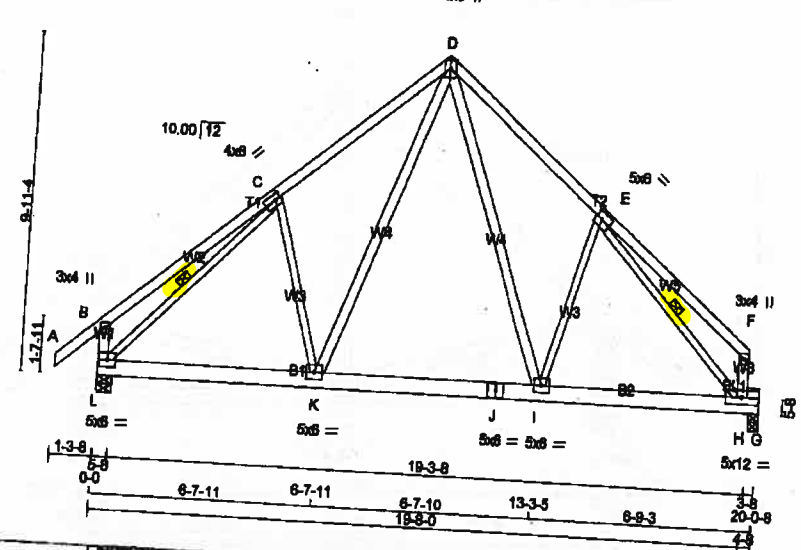


DRWG NO. TAM 11605299
STRUCTURAL
COMPONENT ONLY



JOB NAME 297082 Tamarack Roof Truss, Burlington	TRUSS NAME T108A	QUANTITY 9	PLY 1	JOB DESC TRUSS DESC.	DRWG NO.
--	----------------------------	----------------------	-----------------	-------------------------	----------

Version 6.210 8 May 18 2018 MITek Industries, Inc. Mon Aug 20 16:04:21 2018 Pag
ID:4u167_ap87wvBfJKDwJbPzNv7w-ZY8c5LVp8n18czbNhtYneIN7gPwLVHGN7CQV3yfw
1-3-8 0-0 5-1-0 5-1-0 4-10-8 9-11-8 4-10-8 14-10-0 4-10-0 19-8-0
4x8 II
Scale = 1:6



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

BEARING BLOCKS		
BL1	2x4	DRY No.2
ALL WEBS		
EXCEPT	2x3	DRY No.2
K - D	2x4	DRY No.2
D - I	2x4	DRY No.2

DRY: SEASONED LUMBER.

PLATES (Table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMV+p	MT20	3.0	4.0	
C TMVW+4	MT20	4.0	6.0	2.00 1.75
D TMVW+p	MT20	4.0	6.0	Edge
E TMVW+4	MT20	5.0	8.0	2.50 2.25
F TMV+p	MT20	3.0	4.0	
H BMVW+4	MT20	5.0	12.0	
I BMVW+4	MT20	5.0	8.0	
J BS+4	MT20	5.0	8.0	
K BMVW+4	MT20	5.0	8.0	
L BMVW+4	MT20	5.0	8.0	

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		REQD	
JT	GROSS REACTION	JT	GROSS REACTION	BRG	BRG	BRG	BRG
L	VERT	L	DOWN	UP	UP	UP	UP
L	1884	L	1884	0	0	5-8	5-8
G	1837	G	1837	0	0	3-8	3-8

UNFACTORED REACTIONS		MAX MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	JT	SNOW	JT	PERM. LIVE	JT	WIND	JT	DEAD	JT	SOIL
L	1350	L	972/0	L	210/0	L	0/0	L	277/0	L	0/0
G	1204	G	736/0	G	210/0	G	0/0	G	256/0	G	0/0

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

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-L, E-H.

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

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0/87	C-K	-413/18
B-C	0/80	K-D	0/888
C-D	-1493/0	D-I	0/801
D-E	-1548/0	I-E	-290/55
E-F	0/77	L-C	-1811/0
L-B	-422/0	E-H	-1845/0
H-F	-308/0		
L-K	0/1230		
K-J	0/885		
J-I	0/885		
I-H	0/1239		
H-G	0/0		

TOTAL WEIGHT = 8 X 112 = 1012 LB

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 81.7 PSF

SPACING = 24" O.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 NBC 2012, NBC 2018
- CSA 088-09, CSA 088-14
- TRC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.87")
CALCULATED VERT. DEFL.(LL) = 1/988 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.87")
CALCULATED VERT. DEFL.(TL) = 1/988 (0.17")

CSI: TC=0.64/1.00 (C-D-1), SC=0.71/1.00 (H-I-1), WB=0.84/1.00 (E-H-1); SB=0.60/1.00 (G-H-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1887 1888

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.87 (C) (INPUT = 0.90)
JSI METAL= 0.81 (E) (INPUT = 1.00)



DRWG NO. TAM 1105321
STRUCTURAL
CO. POWER

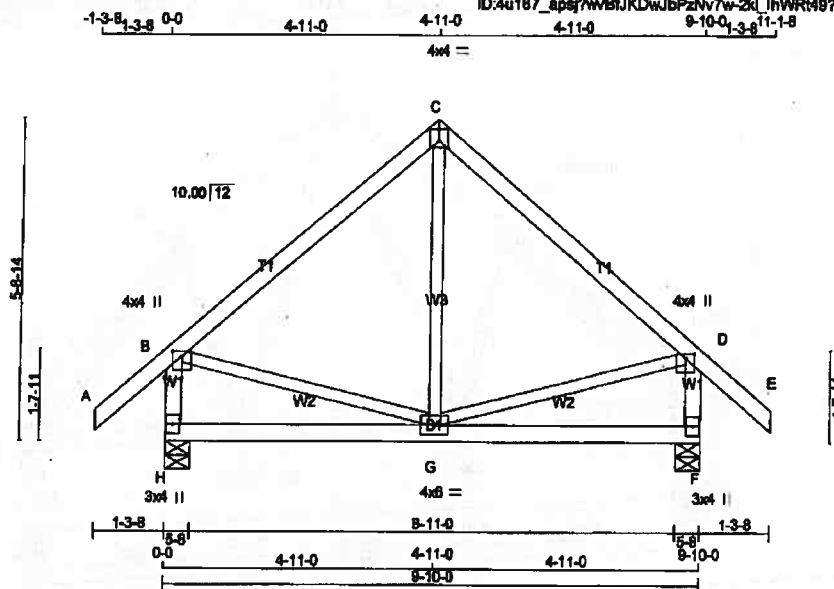


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	T109	4	1	TRUSS DESC.	

Tamereck Roof Truss, Burlington

Version 6.210 9 May 18 2018 Mitek Industries, Inc. Mon Aug 20 18:04:22 2018 Page 1
ID:4u167_apsj7wvBfJKDwJbPzNv7w-2klJhWRM97E7S7xYpnOerbL3t04V9Pbry_ZVyhCt
9-10-0 1-3-8 11-1-3

Scale = 1:37.4



TOTAL WEIGHT = 4 X 45 = 170 lb

LUMBER

N.L.G.A. RULES

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (fields in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	4.0	4.0	1.00	2.00
C	TTW+p	MT20	4.0	4.0	1.50	2.00
D	TMW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWW-1	MT20	4.0	8.0		
H	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
H	1008	0	1008	0
F	1008	0	1008	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	728	482 / 0	108 / 0	0 / 0	0 / 0	144 / 0	0 / 0
F	728	482 / 0	108 / 0	0 / 0	0 / 0	144 / 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.

LOADINGS

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 57	-129.7 -129.7	0.18 (1)	10.00	G-C	0 / 208	0.05 (3)
B-C	-518 / 0	-129.7 -129.7	0.40 (1)	6.25	B-G	0 / 410	0.09 (1)
C-D	-518 / 0	-129.7 -129.7	0.40 (1)	8.25	G-D	0 / 410	0.08 (1)
D-E	0 / 57	-129.7 -129.7	0.18 (1)	10.00			
H-B	-634 / 0	0.0	0.0	10.0 (1)	7.81		
F-D	-634 / 0	0.0	0.0	10.0 (1)	7.81		
H-G	0 / 0	-38.5	-38.5	0.21 (3)	10.00		
G-F	0 / 0	-38.5	-38.5	0.21 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH	LL	=	38.2	PSF
	DL	=	8.0	PSF
BOT CH	LL	=	10.6	PSF
	DL	=	7.0	PSF

TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. GC

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

THIS DESIGN COMPLES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.33")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.02")
ALLOWABLE DEFL.(TL) = $L/360$ (0.33")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.03")

CS1: TO=0.40/1.00 (B-C:1), BC=0.21/1.00 (G-H:3),
WB=0.09/1.00 (D-G:1), SB=0.19/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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
	1687	788
	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.61 (D) (INPUT = 0.80)
JSI METAL= 0.22 (D) (INPUT = 1.00)



DAVID M. TAM 11405922
STRUCTURAL
ENGINEER



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	G109	2	1	TRUSS DESC.	

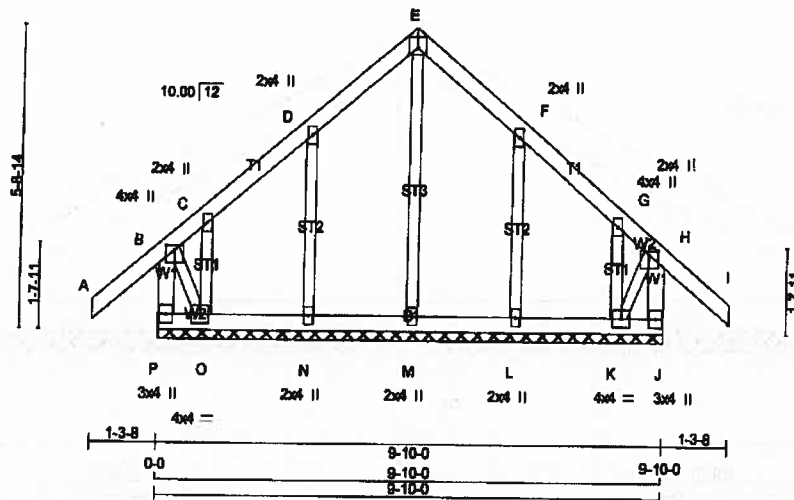
Tamarack Roof Truss, Burlington

Version 8.210 8 May 18 2018 METEK Industries, Inc. Mon Aug 20 16:03:53 2018 Page 1

ID:4u187_sps?wvBfJKDwJbPzNv7w-C8V1DmAFIAV8FgkZkzozjIBICN17nNn8mCudQnywDK

1-3-8 0-0 4-11-0 4-11-0 4-11-0 9-10-0 9-10-0 1-3-8

Scale = 1:30.0



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

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

BEARING
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 = 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.

LOADING
TOTAL LOAD CASES: (4)

PLATES (width in inches)	PLATES	W	LEN	Y	X
JT TYPE	MT20	4.0	4.0	1.00	2.00
B TMAW+p	MT20	4.0	4.0	1.00	2.00
C, D, F, G	MT20	4.0	4.0	1.00	2.00
C TMAW+w	MT20	4.0	4.0	1.50	2.00
E TTW+p	MT20	4.0	4.0	1.00	2.00
H TMAW+p	MT20	4.0	4.0	1.00	2.00
J BMW1+p	MT20	4.0	4.0	1.00	2.00
K BMW1+L	MT20	4.0	4.0	1.00	2.00
L, M, N	MT20	4.0	4.0	1.00	2.00
L BMW1+w	MT20	4.0	4.0	1.00	2.00
O BMW1+L	MT20	4.0	4.0	1.00	2.00
P BMW1+p	MT20	4.0	4.0	1.00	2.00

CHORDS				WEBS			
MEMB.	MAX FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX CS (LC)	MEMB.	MAX FACTORED FORCE (LBS)	MAX CS (LC)	UNBRACED LENGTH (FT)
FR-TO				FR-TO			
P-B	-382 / 0	0.0	0.0 0.04 (1)	M-E	-215 / 0	0.10 (1)	7.81
A-B	0 / 57	-128.7 -128.7	0.18 (1)	N-D	-310 / 0	0.08 (1)	10.00
B-C	-94 / 0	-128.7 -128.7	0.17 (1)	O-C	-28 / 0	0.00 (1)	6.25
C-D	0 / 8	-128.7 -128.7	0.08 (1)	L-F	-310 / 0	0.08 (1)	10.00
D-E	-17 / 0	-128.7 -128.7	0.08 (1)	K-G	-28 / 0	0.00 (1)	6.25
E-F	-17 / 0	-128.7 -128.7	0.08 (1)	B-O	0 / 14	0.00 (1)	6.25
F-G	0 / 8	-128.7 -128.7	0.08 (1)	K-H	0 / 14	0.00 (1)	10.00
G-H	-94 / 0	-128.7 -128.7	0.17 (1)				
H-I	0 / 57	-128.7 -128.7	0.18 (1)				
J-H	-382 / 0	0.0	0.0 0.04 (1)				7.81
P-O	0 / 0	-38.5 -38.5	0.02 (3)				10.00
O-N	0 / 8	-38.5 -38.5	0.03 (3)				10.00
N-M	-1 / 0	-38.5 -38.5	0.03 (3)				10.00
M-L	-1 / 0	-38.5 -38.5	0.03 (3)				10.00
L-K	0 / 8	-38.5 -38.5	0.03 (3)				10.00
K-J	0 / 0	-38.5 -38.5	0.02 (3)				10.00

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 38.2 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 61.7 PSF

SPACING = 24.0 IN. OC
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 2012, OSC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.
(56 % OF 54.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (H-1), BC=0.03/1.00 (L-M3),
WB=0.10/1.00 (E-M1), GS=0.11/1.00 (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)	(PL)
MT20	618	384	1667 788 1667 1668

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.36 (E) (INPUT = 0.80)

JSI METAL= 0.17 (F) (INPUT = 1.00)

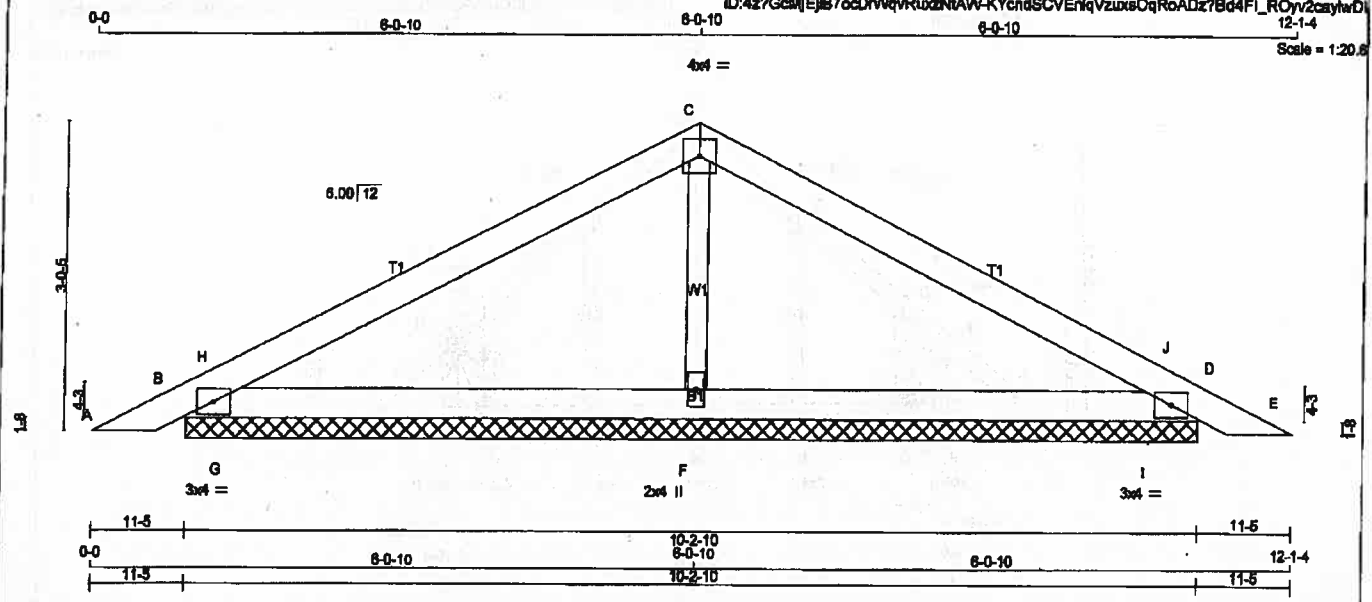


DWG NO. TAM 17305380
STRUCTURAL
COMPONENT ONLY



JOB NAME 297082	TRUSS NAME P61	QUANTITY 65	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	--------------------------	-----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington Version 6.210 S May 18 2018 MTek Industries, Inc. Mon Aug 20 16:03:55 2018 Page 1
ID:4z7GcmEJB7ocDrWqvRuxzNtAW-KYcndSCVEriqVzuxsOqRoADz7Bd4FI_R0yv2cmhwDl 12-1-4



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

PLATES (Table in inch)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-H	MT20	3.0	4.0	
C	TTW-P	MT20	4.0	4.0	
D	TMB1-H	MT20	3.0	4.0	
F	BMW1+W	MT20	2.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
REACTIONS							
	FACTORED	MAXIMUM FACTORED	INPUT	RECORD			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-EX	IN-EX
B	602	0	602	0	0	10-2-10	10-3-10
D	602	0	602	0	0	10-2-10	10-3-10
F	742	0	742	0	0	10-2-10	10-3-10

UNFACTORED REACTIONS							
JT	1ST CASE	MAX MIN	COMBINED	SNOW	LIVE	PERM	LIVE
B	431	301/0	48/0	0/0	0/0	80/0	0/0
D	431	301/0	48/0	0/0	0/0	80/0	0/0
F	564	312/0	118/0	0/0	0/0	128/0	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 = 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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/24	-129.7 -129.7	0.07 (1)	10.00	F-C	-345/0	0.08 (1)
B-H	-112/0	-129.7 -129.7	0.18 (1)	8.25	G-H	-631/41	0.00 (1)
H-C	-250/0	-129.7 -129.7	0.42 (1)	6.25	I-J	-631/41	0.00 (1)
C-J	-250/0	-129.7 -129.7	0.42 (1)	6.25			
J-D	-112/0	-129.7 -129.7	0.18 (1)	8.25			
D-E	0/24	-129.7 -129.7	0.07 (1)	10.00			
B-G	0/213	-38.5 -38.5	0.38 (1)	10.00			
G-F	0/213	-38.5 -38.5	0.38 (1)	10.00			
F-I	0/213	-38.5 -38.5	0.38 (1)	10.00			
I-D	0/213	-38.5 -38.5	0.38 (1)	10.00			

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
CL = 8.0 PSF
BOT CH. LL = 10.5 PSF
CL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. CG

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 8, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 8 OF CBC 2012, CBC 2018
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1: TC=0.42/1.00 (C-H:1), BC=0.38/1.00 (F-G:1),
WB=0.08/1.00 (C-F:1), BS1=0.48/1.00 (B-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES					
PLATE	GRIP (DRY)	SHEAR	SECTION		
	(P8)	(PL)	(PL)		
	MAX MIN	MAX MIN	MAX MIN		
MT20	818	354	1887	788	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.50 (D) (INPUT = 0.90)
J81 METAL= 0.13 (B) (INPUT = 1.00)

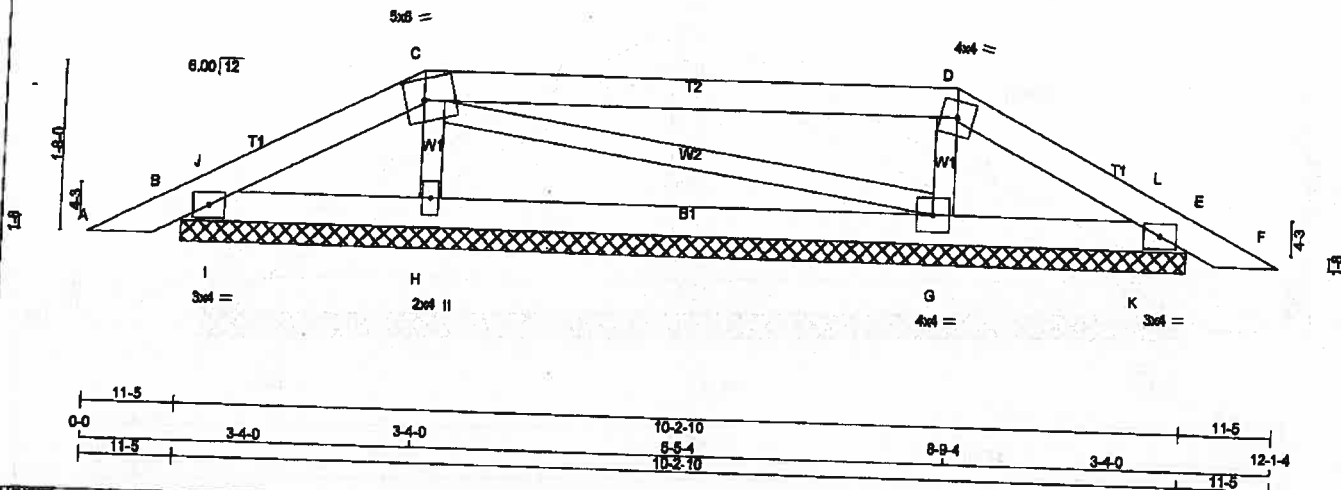


DRWG NO. TAM 11805301
STRUCTURAL
COMPONENT ONLY



JOB NAME 297082 Tamarack Roof Truss, Burlington	TRUSS NAME P62	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
--	--------------------------	----------------------	-----------------	--------------------------	----------

Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 16:05:57 2018 Page 1
ID:4z7G6MJEJBTacDrVWvRuazNtAW-GwioC28DmP7YkH2KxotvblFn_M8JCQkrGOgSywDQ
6-6-4 3-4-0 12-1-4
Scale = 1:20.7



LUMBER

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

PLATES (thickness in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB14	MT20	3.0	4.0		
C	TTWW-m	MT20	5.0	6.0	2.50	2.25
D	TTWW-m	MT20	4.0	4.0		
E	TMB14	MT20	3.0	4.0		
G	BMWW1-t	MT20	4.0	4.0		
H	BMWW1-w	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
B	323	0	323	0	10-2-10	10-2-10
E	317	0	317	0	10-2-10	10-2-10
H	647	0	647	0	10-2-10	10-2-10
G	659	0	659	0	10-2-10	10-2-10

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	BRW	LIVE	PERM. LIVE	WIND			
B	224	180/0	10/0	0/0	0/0	35/0	0/0
E	220	176/0	10/0	0/0	0/0	34/0	0/0
H	482	276/0	98/0	0/0	0/0	108/0	0/0
G	490	263/0	98/0	0/0	0/0	110/0	0/0

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

BRACING

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED		MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED		
		VERT. LOAD LC1 (PLF)	MAX. CSI (LC)			FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		FR-TO			
A-B	0/24	-129.7	-129.7	0.07 (1)	10.00	H-C	-437/0	0.08 (1)
B-J	-72/0	-129.7	-129.7	0.01 (1)	6.25	C-G	-13/0	0.01 (1)
J-C	-84/0	-129.7	-129.7	0.08 (1)	6.25	G-D	-447/0	0.08 (1)
C-D	-24/0	-129.7	-129.7	0.85 (1)	6.25	I-J	-180/0	0.00 (1)
D-L	-71/0	-129.7	-129.7	0.08 (1)	6.25	K-L	-181/0	0.00 (1)
L-E	-58/2	-129.7	-129.7	0.01 (1)	6.25			
E-F	0/24	-129.7	-129.7	0.07 (1)	10.00			
B-I	0/73	-38.5	-38.5	0.10 (1)	10.00			
I-H	0/73	-38.5	-38.5	0.14 (2)	10.00			
H-G	0/37	-38.5	-38.5	0.14 (2)	10.00			
G-K	0/61	-38.5	-38.5	0.14 (2)	10.00			
K-E	0/61	-38.5	-38.5	0.10 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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 CBC 2012, CBC 2018
- CSA 088-09, CSA 088-14
- TRC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.B.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.85/1.00 (C-D-1), BC=0.14/1.00 (H-2), WB=0.06/1.00 (D-G-1), SS=0.28/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PS)	(PS)	(PS)	(PS)
MT20	618	384	1687

PLATE PLACEMENT TOL = 0.260 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.28 (D) (INPUT = 0.90)
JSI METAL= 0.08 (H) (INPUT = 1.00)



DRWG NO. TAM 11805302
STRUCTURAL
TRANSPARENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	P63	6	1	TRUSS DESC.	

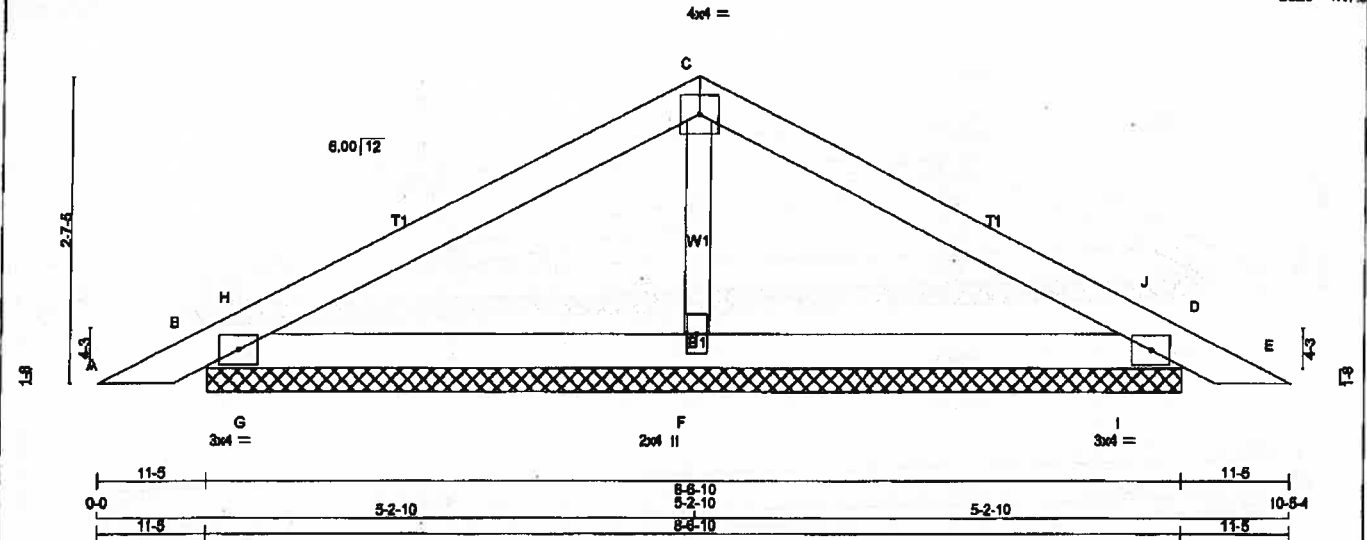
Tamarack Roof Truss, Burlington

Version 8.210 5 May 16 2016 MTEK Industries, Inc. Mon Aug 20 16:03:59 2016 Page 1

ID:4z7GcMEJB7ocDrWqvRuzNIAW4k7hwGUENDX7PMRdVXW08QorWGOgRSIVw8iCuyWDF

10-5-4

Scale = 1:17.9



TOTAL WEIGHT = 8 X 25 = 147 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
B - D	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER			

PLATES (double in in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TTW-p	MT20	4.0	4.0		
D	TMB1-I	MT20	3.0	4.0		
F	BMW1-w	MT20	2.0	4.0		

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

REACTIONS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UP	IN-SX
B	512	512	0	8-6-10
D	512	512	0	8-6-10
F	642	642	0	8-6-10

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
B	366	258/0	41/0	0/0	0/0	0/0
D	366	258/0	41/0	0/0	0/0	0/0
F	479	272/0	68/0	0/0	108/0	0/0

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

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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO	LENGTH FR-TO	F-C	-307/0	0.05 (1)	
A-B	0/24	-129.7 -129.7	0.07 (1)	G-H	-457/30	0.00 (1)	
B-H	-98/0	-129.7 -129.7	0.10 (1)	H-J	-457/30	0.00 (1)	
H-C	-185/0	-129.7 -129.7	0.29 (1)				
C-J	-185/0	-129.7 -129.7	0.29 (1)				
J-D	-98/0	-129.7 -129.7	0.10 (1)				
D-E	0/24	-129.7 -129.7	0.07 (1)				
B-G	0/158	-38.5 -38.5	0.27 (1)				
G-F	0/158	-38.5 -38.5	0.27 (1)				
F-I	0/158	-38.5 -38.5	0.27 (1)				
I-D	0/158	-38.5 -38.5	0.27 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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 2012, CBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.28/1.00 (C-I), BC=0.27/1.00 (B-G), WB=0.08/1.00 (C-F), SB=0.38/1.00 (D-I)

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

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 1967 788 1967 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.42 (B) (INPUT = 0.90)
JSI METAL = 0.10 (B) (INPUT = 1.00)



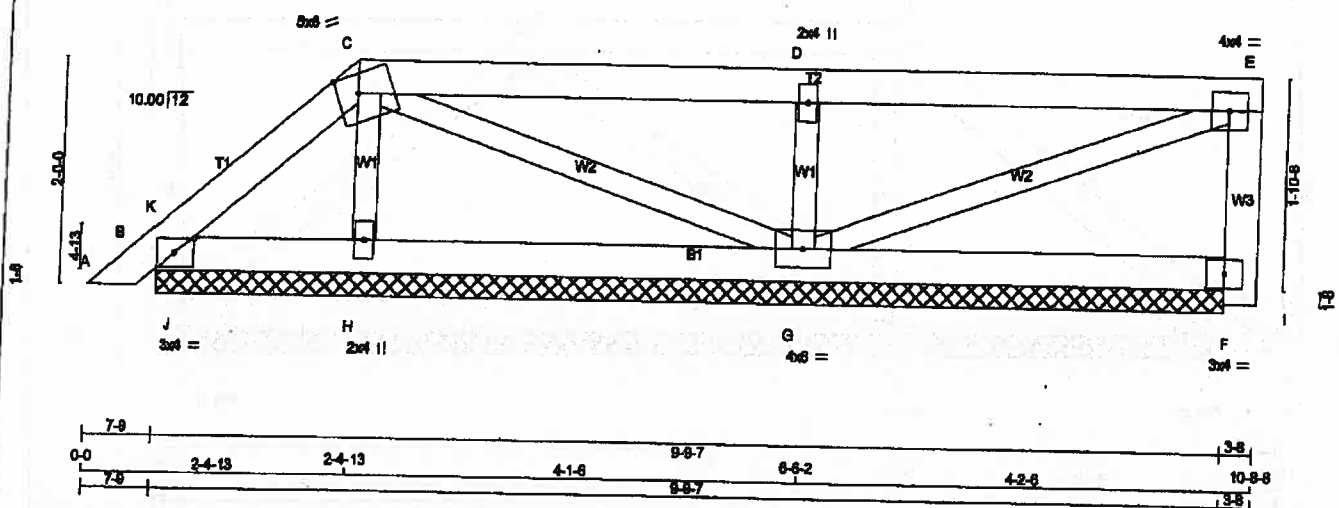
JWG NO. TAM 11605303
STRUCTURAL
COMPONENT ONLY



JOB NAME 297081	TRUSS NAME P101	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	----------

Turnerack Roof Truss, Burlington

Version 6.210 8 May 18 2018 Mitek Industries, Inc. Mon Aug 20 13:07:32 2018 Page 1
ID:00z_KU4ZDaGyCS8Zaw6HbiczNU2o-6OaXnbMhrtbgtPZTqNBaEo6AYLpdmRZabMjYjyol
6-8-2 4-2-6 10-8-8
Scale = 1:18.5



TOTAL WEIGHT = 2 X 35 = 70 lb

LUMBER

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

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

PLATES (Nails to be installed)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-1	MT20	3.0	4.0	1.50	2.00
C	TTWW-m	MT20	5.0	6.0	2.00	2.25
D	TMMW-w	MT20	2.0	4.0		
E	TMMW-1	MT20	4.0	4.0		
F	BVM-1	MT20	3.0	4.0		
G	BMWWV1-1	MT20	4.0	6.0		
H	BMW1-w	MT20	2.0	4.0		

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

REACTIONS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
B	11	0	11	0	9-9/7	9-9/7
H	442	0	442	0	9-9/7	9-9/7
G	1312	0	1312	0	9-9/7	9-9/7

PROVIDE ANCHORAGE AT BEARING JOINTS B FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST CASE		MAX MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM LIVE			
B	-1	29/0	0/-30	0/0	0/0	0/9	0/0
H	332	180/0	74/0	0/0	0/0	78/0	0/0
G	980	603/0	188/0	0/0	0/0	200/0	0/0

BEARING MATERIAL TO BE SPF #2 OR BETTER AT JOINTS (S), H, G

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MEMB.	MAX. FACTORED	FACTORED	MAX
	FORCE	(FLF)					FORCE		
	(LBS)						(LBS)		
FR-TO		FROM TO				FR-TO			
A-B	0/20	-129.7	-129.7	0.08 (1)	10.00	H-C	-304/0	0.04 (1)	
B-K	0/330	-129.7	-129.7	0.08 (1)	10.00	C-G	-478/0	0.15 (1)	
K-C	0/288	-129.7	-129.7	0.10 (1)	10.00	G-D	-687/0	0.10 (1)	
C-D	0/686	-129.7	-129.7	0.52 (1)	10.00	G-E	-733/0	0.23 (1)	
D-E	0/686	-129.7	-129.7	0.82 (1)	10.00	J-K	-177/0	0.00 (1)	
E-F	0/0	0.0	0.0	0.00 (1)	10.00				
F-E	0/78	0.0	0.0	0.01 (3)	10.00				
B-J	-218/0	-38.5	-38.5	0.08 (1)	8.25				
J-H	-218/0	-38.5	-38.5	0.08 (3)	8.25				
H-G	-230/0	-38.5	-38.5	0.15 (2)	8.25				
G-F	0/0	-38.5	-38.5	0.15 (2)	10.00				

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH LL = 38.2 PSF
DL = 8.0 PSF
BOT CH LL = 10.8 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. CG

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 2012, CBC 2015
- CSA 088-09, CSA 088-14
- TPO 2011, TPO 2014

DESIGN ASSUMPTIONS
OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.52/1.00 (C-D-1), BC=0.18/1.00 (G-H-2), WB=0.23/1.00 (E-G-1), SS=0.27/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	818	354	1887

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.87 (E) (INPUT = 0.80)
JSI METAL = 0.28 (E) (INPUT = 1.00)



DRWG NO. TAM 1105270
STRUCTURAL
COMPONENT ONLY

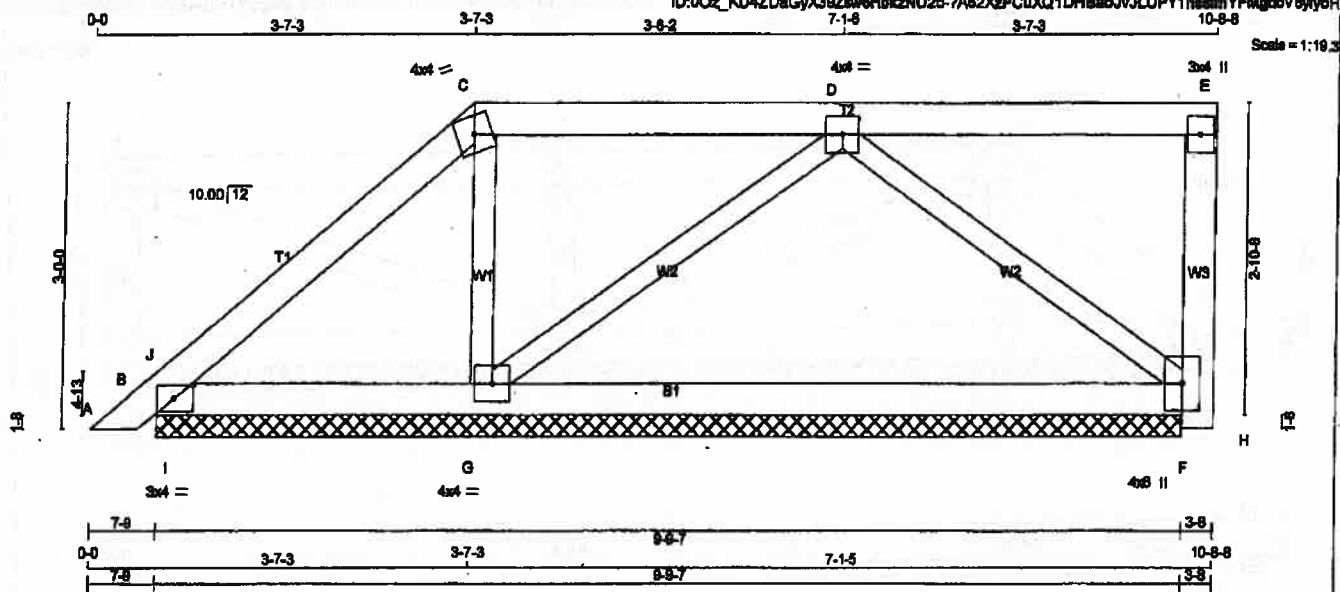


JOB NAME 297081	TRUSS NAME P102	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 5 May 16 2016 Mitek Industries, Inc. Mon Aug 20 13:07:56 2018 Page 1

ID:00z_KU4ZDaGyX38Zaw6HbKzNU2o-7A52XzPCuXQ1DHBaoJvJLUPY1nastmYFMgdv9/fyot



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

PLATES Refer to in brackets

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	1.50	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMBW-W	MT20	4.0	4.0		
E	TMBW-p	MT20	3.0	4.0		
F	BW1W1-p	MT20	4.0	6.0		
G	BW1W1-I	MT20	4.0	4.0		

UNFACTORED REACTIONS

FACTORED		MAXIMUM FACTORED		INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
	VERT	HORIZ	HORIZ	IN-SK	IN-SK
B	284	0	284	0	0-6-7
F	581	0	581	0	0-6-7
G	940	0	940	0	0-6-7

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	178	181/0	0/-6	0/0	0/0	22/0	0/0
F	408	289/0	57/0	0/0	0/0	80/0	0/0
G	707	382/0	189/0	0/0	0/0	168/0	0/0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX	MEMB.	MAX. FACTORED	FACTORED
MEMB.	FORCE (LBS)	FORCE (PLF)	CS1 (LC)	UNBRAC	LENGTH	FR-TO	MEMB.	FORCE (LBS)	FORCE (PLF)	CS1 (LC)	UNBRAC	LENGTH	FR-TO	MEMB.	FORCE (LBS)	FORCE (PLF)
A-B	0/20	-128.7	-128.7	0.03 (1)	10.00	G-C	-320/0	0.05 (1)								
B-J	0/193	-128.7	-128.7	0.12 (1)	10.00	G-D	-480/0	0.15 (1)								
J-C	-23/7	-128.7	-128.7	0.12 (1)	6.25	D-F	-471/0	0.15 (1)								
C-D	0/13	-128.7	-128.7	0.27 (1)	10.00	I-J	-487/0	0.00 (1)								
D-E	0/0	-128.7	-128.7	0.27 (1)	10.00											
E-F	0/0	0.0	0.0	0.00 (1)	10.00											
F-E	-178/0	0.0	0.0	0.03 (1)	7.81											
B-I	-11/6	-38.5	-38.5	0.15 (1)	6.25											
I-G	-11/6	-38.5	-38.5	0.33 (2)	6.25											
G-F	0/383	-38.5	-38.5	0.37 (2)	10.00											

DESIGN CHECKS

SPECIFIED LOADS:

TOP CH.	LL	=	58.2	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	61.7	PSF

SPACING = 24.0 IN. OC

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 2012, CBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1 TO=0.27/1.00 (C-D:1), SC=0.37/1.00 (F-G:2), WB=0.15/1.00 (D-G:1), SB=0.35/1.00 (B-I: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

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

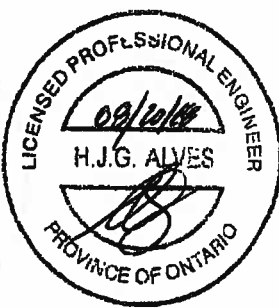
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	618	354	1957

PLATE PLACEMENT TOL = 0.250 inches

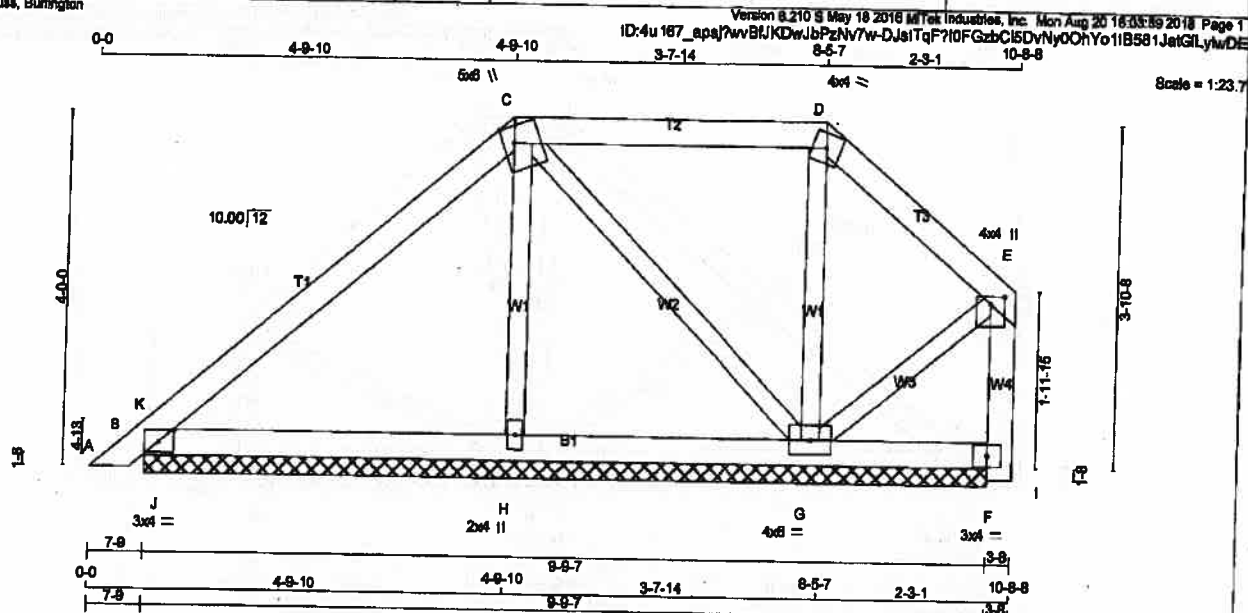
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.44 (G) (INPUT = 0.80)
JSI METAL= 0.14 (G) (INPUT = 1.00)



DRWG NO. TAM **11805271**
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	P104	1	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					



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

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	1.50	2.00
C	TTWW+m	MT20	5.0	6.0	2.25	1.50
D	TTW-m	MT20	4.0	4.0		
E	TTWW+p	MT20	4.0	4.0	1.00	2.00
F	BVM-I	MT20	3.0	4.0		
G	BMMWW1-I	MT20	4.0	6.0		
H	BMMWW1-w	MT20	2.0	4.0		

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
JT		458	0	458	0	0	9-7	9-7
B		447	0	447	0	0	9-7	9-7
H		889	0	888	0	0	9-7	9-7

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	328	231 / 0	38 / 0	0 / 0	0 / 0	80 / 0	0 / 0
H	340	173 / 0	84 / 0	0 / 0	0 / 0	83 / 0	0 / 0
G	824	407 / 0	92 / 0	0 / 0	0 / 0	125 / 0	0 / 0

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

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 FITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBB				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 / 20	-129.7	-129.7	0.03 (1)	10.00	H-C	-207 / 0	0.05 (1)	
B-K	-70 / 185	-129.7	-129.7	0.15 (1)	8.25	C-G	-283 / 0	0.11 (1)	
K-C	-108 / 0	-129.7	-129.7	0.28 (1)	8.25	G-D	-484 / 0	0.11 (1)	
C-D	0 / 134	-129.7	-129.7	0.32 (1)	10.00	D-E	-148 / 0	0.03 (1)	
D-E	0 / 158	-129.7	-129.7	0.14 (1)	10.00	J-K	-842 / 57	0.00 (1)	
E-F	0 / 0	0.0	0.0	0.00 (1)	10.00				
F-E	0 / 48	0.0	0.0	0.01 (2)	10.00				
B-J	0 / 72	-38.5	-38.5	0.23 (1)	10.00				
J-H	0 / 72	-38.5	-38.5	0.23 (1)	10.00				
H-G	0 / 86	-38.5	-38.5	0.17 (1)	10.00				
G-F	0 / 0	-38.5	-38.5	0.05 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL =	38.2	PSF
	DL =	8.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	61.7	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 OBC 2012, OBC 2016
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.32/1.00 (C-D:1), BC=0.23/1.00 (H-I:1),
WB=0.11/1.00 (C-G:1), SS=0.52/1.00 (B-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

PLATE	GRIP (DRY)		SHEAR		SECTION	
	(PSI)		(PL)		(PL)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	818	354	1887	788	1987	1654

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP= 0.37 (B) (INPUT = 0.80)
SI METAL= 0.15 (D) (INPUT = 1.00)

DWG NO. TAM 7805304
STRUCTURAL
COMPONENT ONLY

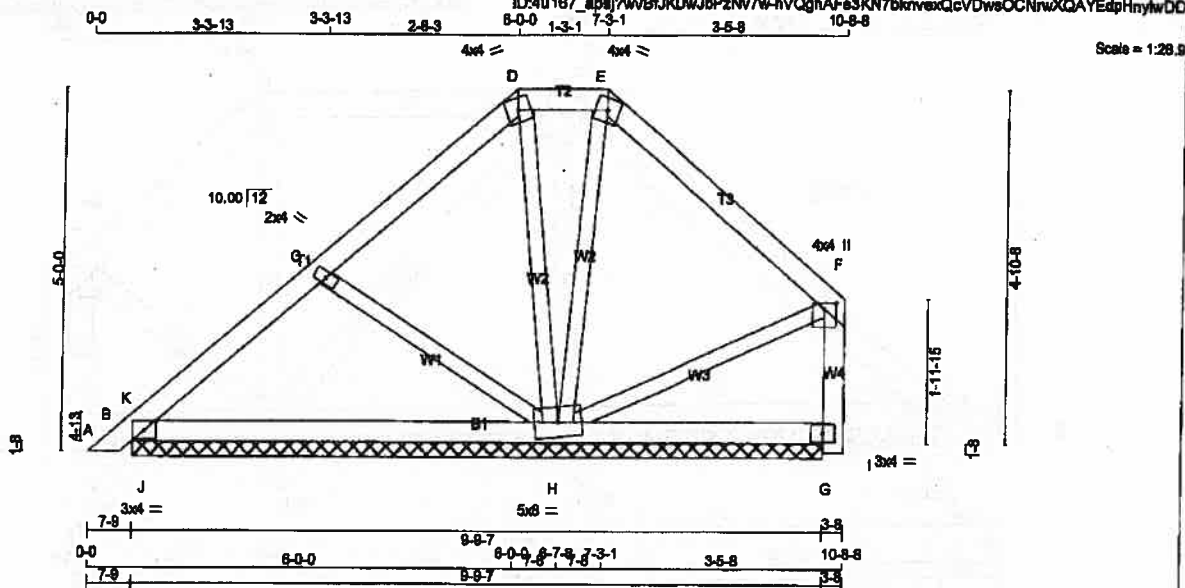




JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	P105	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 8 May 18 2018 Mitek Industries, Inc. Mon Aug 20 16:04:00 2018 Page 1



Scale = 1:28.8

TOTAL WEIGHT = 2 X 42 = 85 lb

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 - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
G - H	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TM81-I	MT20	3.0	4.0	1.50 2.00
C	TMW-w	MT20	2.0	4.0	
D	TTW-m	MT20	4.0	4.0	
E	TTW-m	MT20	4.0	4.0	
F	TMW-w	MT20	4.0	4.0	1.00 2.00
G	BVMH	MT20	3.0	4.0	
H	BMW-WWY-MT20		5.0	8.0	

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

BUILDING DESIGNER

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	348	0	348	0	9-9-7	9-9-7
H	1417	0	1417	0	9-9-7	9-9-7

UNFACTORED REACTIONS

JT	1ST LCASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
B	252	187 / 0	35 / 0	0 / 0	49 / 0	0 / 0	0 / 0
H	1040	644 / 0	177 / 0	0 / 0	219 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MEMB.		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	LC1 MAX CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 20	-129.7	-129.7 0.03 (1)	10.00	H-F	-235 / 0	0.07 (1)
B-K	-391 / 0	-129.7	-129.7 0.14 (3)	8.25	D-H	-406 / 0	0.14 (1)
K-C	-63 / 35	-129.7	-129.7 0.18 (1)	8.25	H-E	-482 / 0	0.17 (1)
C-D	0 / 281	-129.7	-129.7 0.22 (1)	10.00	C-H	-375 / 0	0.10 (1)
D-E	0 / 281	-129.7	-129.7 0.08 (1)	10.00	J-K	0 / 482	0.00 (1)
E-F	0 / 284	-129.7	-129.7 0.31 (1)	10.00			
F-G	0 / 0	0.0	0.0 0.00 (1)	10.00			
G-F	0 / 64	0.0	0.0 0.01 (3)	10.00			
B-J	0 / 92	-38.5	-38.5 0.11 (3)	10.00			
J-H	0 / 92	-38.5	-38.5 0.21 (2)	10.00			
H-G	0 / 0	-38.5	-38.5 0.20 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	38.2	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	61.7	PSF

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 086-08, CSA 086-14
- TPC 2011, TPC 2014

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

(55% OF 64.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1 TO=0.31/1.00 (E-F:1), BC=0.21/1.00 (H-J:2), WB=0.17/1.00 (E-H:1), SS=0.28/1.00 (B-J: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 (PSI)	SECTION (PL)
MAX	MIN	MAX
MIN	MAX	MIN
MT20	818	334
	1687	788
	1687	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.58 (H) (INPUT = 0.90)
JSI METAL= 0.25 (E) (INPUT = 1.00)

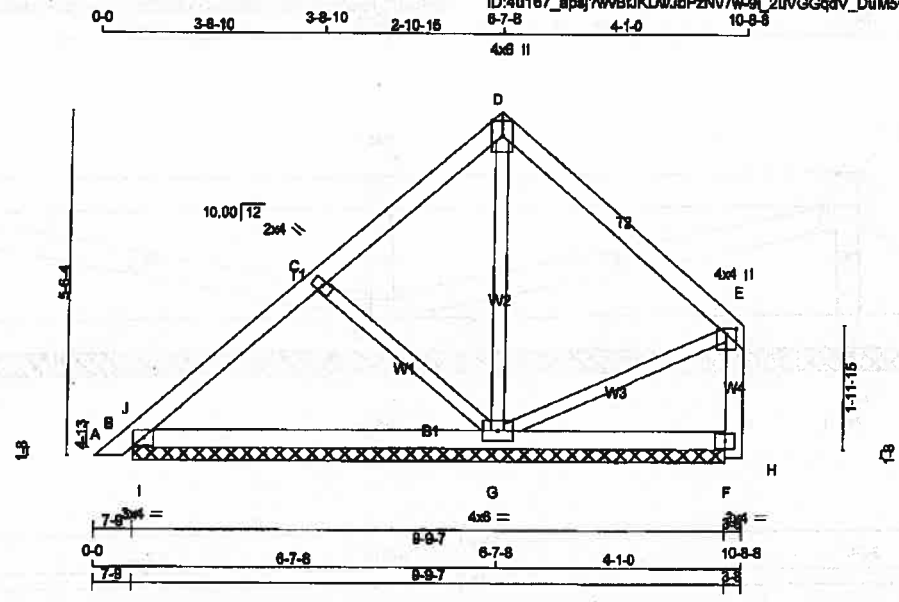


DR. M. TAM, 718305
STRUCTURAL
CONCRETE ONLY



JOB NAME 297082	TRUSS NAME P106	QUANTITY 3	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	----------

7amack Roof Truss, Burlington Version 8.310 8 May 18 2018 M/Yak Industries, Inc. Mon Aug 20 15:04:01 2018 Page 1
ID:4u167_apaj7wv8UJKDwJbPzNv7w-8L2uVGQdV_DuM5Coxr1RT7Pcd1bx_Km0MMapDyhwDQ



LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
H - E	2x4	DRY	No.2
S - F	2x4	DRY	No.2
ALL WEBS 2x3 DRY No.2 BPF			
DRY: SEASONED LUMBER.			

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B 7MB1-1	MT20	3.0	4.0	1.50 2.00
C TMWw	MT20	2.0	4.0	
D TTWw	MT20	4.0	8.0	Edge
E TMWw	MT20	4.0	4.0	1.00 2.00
F BVW	MT20	3.0	4.0	
G BMWw	MT20	4.0	6.0	

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

FACTORED REACTIONS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-EX	REQD
B	340	0	340	0	0	9-6-7	9-6-7
G	1425	0	1425	0	0	9-6-7	9-6-7

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	248	184 / 0	34 / 0	0 / 0	0 / 0	48 / 0	0 / 0
G	1046	848 / 0	178 / 0	0 / 0	0 / 0	220 / 0	0 / 0

BEARING MATERIAL TO BE BPF NO.2 OR BETTER AT JOINT(B) G

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

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

LOADING

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 20	-129.7	-129.7 0.03 (1)	10.00	C-G	-367 / 0	0.11 (1)
B-J	-313 / 0	-129.7	-129.7 0.14 (3)	8.25	G-D	-825 / 0	0.35 (1)
J-C	-13 / 49	-129.7	-129.7 0.22 (1)	8.25	G-E	-271 / 0	0.08 (1)
C-D	0 / 298	-129.7	-129.7 0.28 (1)	10.00	I-J	0 / 411	0.00 (1)
D-E	0 / 327	-129.7	-129.7 0.42 (1)	10.00			
E-F	0 / 0	0.0	0.0 0.00 (1)	10.00			
F-E	0 / 66	0.0	0.0 0.01 (3)	10.00			
B-I	-13 / 50	-38.5	-38.5 0.10 (3)	8.25			
I-G	-13 / 50	-38.5	-38.5 0.21 (2)	8.25			
G-F	0 / 0	-38.5	-38.5 0.21 (2)	10.00			

TOTAL WEIGHT = 3 X 40 = 119 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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 2012, CBC 2018
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

(65 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.42/1.00 (D-E), BC=0.21/1.00 (G-I), WB=0.35/1.00 (D-G), SB=0.23/1.00 (B-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 (PSI)	SECTION (PL)	
MT20	618	354	1887 788 1887 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.37 (G) (INPUT = 0.80)
JSI METAL= 0.17 (D) (INPUT = 1.00)



DRWG NO. TAM 11805300
STRUCTURAL
COMPONENT ONLY

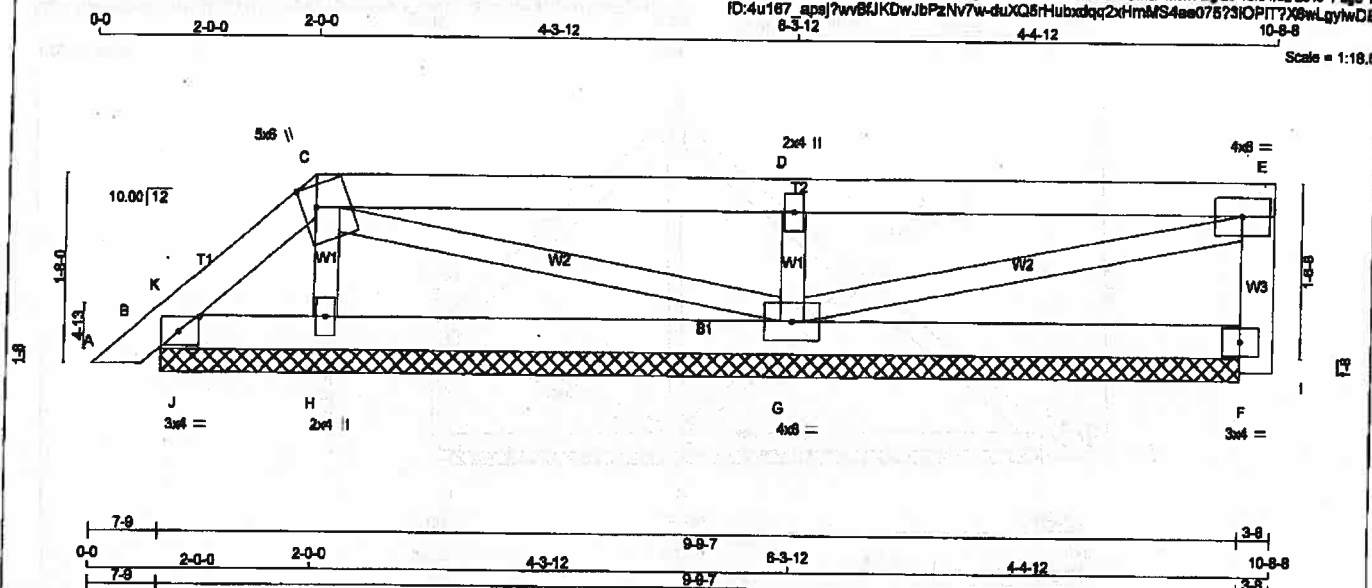


JOB NAME 297082	TRUSS NAME P107	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 8 May 18 2018 MTek Industries, Inc. Mon Aug 20 16:04:02 2018 Page 1
ID:4u167 apaj?wv8JUKDwJbPzNv7w-duXQ5rHubxdqg2xHmMS4ee07573IOPIIT7X9wLgywDB
10-8-8

Scale = 1:18.6



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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-1	MT20	3.0	4.0	1.50	2.00
C	TTWW1-m	MT20	5.0	8.0	2.25	1.50
D	TMM1-w	MT20	2.0	4.0		
E	TMM1-w	MT20	4.0	6.0		
F	BVM1	MT20	3.0	4.0		
G	BMM1-w	MT20	4.0	6.0		
H	BMM1-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 UPLIFT	IN-SX	IN-SX
B -128 0 0	0 0 -133	9-9-7	9-9-7
H 528 0 0	0 0 9-9-7	9-9-7	9-9-7
G 1387 0 0	0 0 9-9-7	9-9-7	9-9-7

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 180 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

1ST LCAGE	MAX MIN COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
B -105	0/-31 0/-41 0/0 0/0 0/-32 0/0
H 385	215/0 88/0 0/0 0/0 82/0 0/0
G 1001	628/0 185/0 0/0 0/0 208/0 0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINTS B, H, G

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/20	-128.7 -128.7	0.03 (1)	10.00	H-C	-387/0	0.08 (1)
B-K	0/483	-128.7 -128.7	0.06 (1)	10.00	C-G	-587/0	0.18 (1)
K-C	0/441	-128.7 -128.7	0.10 (1)	10.00	G-D	-727/0	0.10 (1)
C-D	0/933	-128.7 -128.7	0.62 (1)	10.00	D-E	-889/0	0.31 (1)
D-E	0/932	-128.7 -128.7	0.62 (1)	10.00	J-K	-160/0	0.00 (1)
E-F	0/0	0.0 0.0	0.00 (1)	10.00			
F-E	0/81	0.0 0.0	0.01 (3)	10.00			
B-J	-334/0	-38.5 -38.5	0.04 (1)	6.25			
J-H	-334/0	-38.5 -38.5	0.06 (3)	6.25			
H-G	-387/0	-38.5 -38.5	0.18 (2)	6.25			
G-F	0/0	-38.5 -38.5	0.18 (2)	10.00			

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 81.7 PSF

SPACING = 24.0 IN. OC

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 8, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 086-08, CSA 086-14
- TPC 2011, TPC 2014

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

(55 % OF 64.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.82/1.00 (C-D:1), BC=0.18/1.00 (G-H:2), WS=0.31/1.00 (E-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.

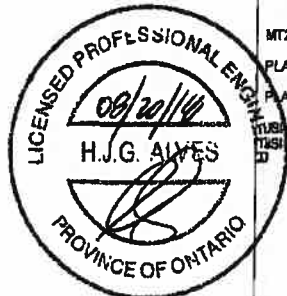
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818	354	1887
	788	1987	1886

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

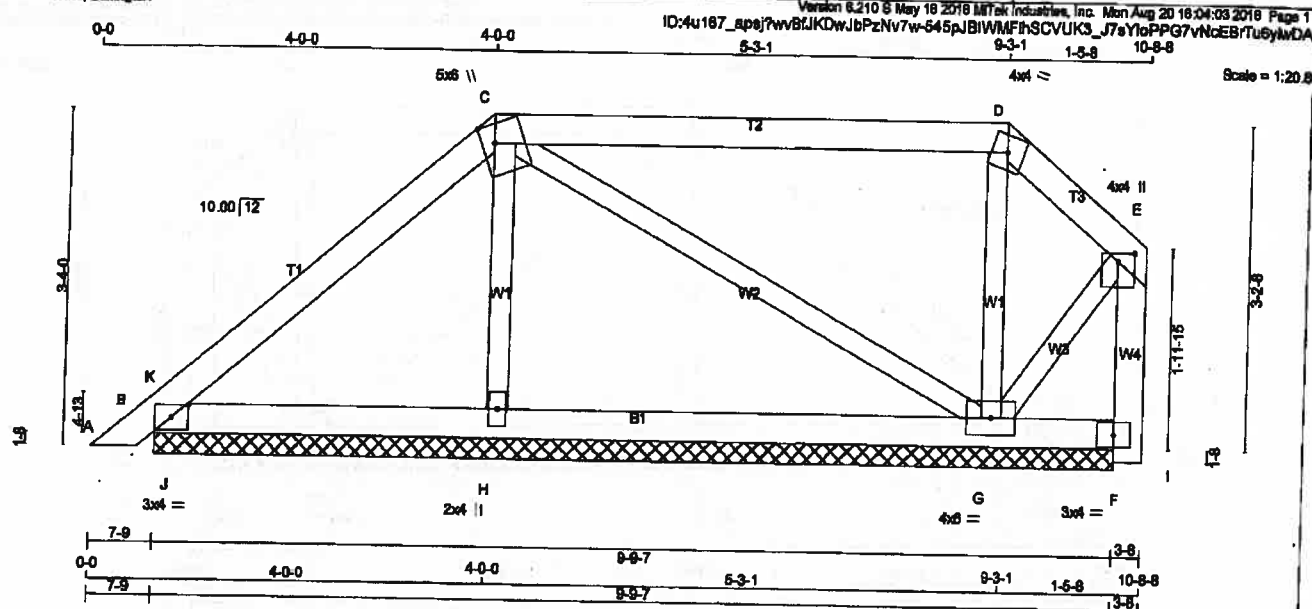
TRUSS GRIP= 0.74 (G) (INPUT = 0.80)
TRUSS METAL= 0.23 (C) (INPUT = 1.00)



DRWG NO. TAM **11805307**
STRUCTURAL
COMPONENT ONLY



JOB NAME 297082	TRUSS NAME P108	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					



TOTAL WEIGHT = 35 lb

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

PLATES (table is in inches)			
JT TYPE	PLATES	W	LEN Y X
B	TMB-I	MT20	3.0 4.0 1.50 2.00
C	TTWW+m	MT20	5.0 6.0 2.25 1.50
D	TTW-m	MT20	4.0 4.0 1.00 2.00
E	TMVW+p	MT20	4.0 4.0 1.00 2.00
F	BVM-I	MT20	3.0 4.0 1.00 2.00
G	BMVW+I	MT20	4.0 6.0 1.00 2.00
H	BMVW+I	MT20	2.0 4.0 1.00 2.00

BEARINGS

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION	DOWN	GROSS REACTION	DOWN	IN-SX	IN-SX	BRG	BRG
JT	VERT	DOWN	UP/LIFT	IN-SX	IN-SX	BRG	BRG
B	411	0	411	0	0	9-9-7	9-9-7
H	593	0	593	0	0	9-9-7	9-9-7
G	781	0	781	0	0	9-9-7	9-9-7

UNFACTORED REACTIONS

1ST LCASE		MAX. MIN. COMPONENT REACTIONS		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	292	212 / 0	28 / 0	0 / 0	0 / 0	52 / 0	0 / 0
H	446	243 / 0	99 / 0	0 / 0	0 / 0	104 / 0	0 / 0
G	554	357 / 0	85 / 0	0 / 0	0 / 0	113 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PL)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 20	-128.7 -129.7	0.03 (1)	H-C	-381 / 0	0.07 (1)	
B-K	-40 / 31	-129.7 -129.7	0.08 (1)	C-G	-167 / 0	0.10 (1)	
K-C	-139 / 0	-129.7 -129.7	0.18 (1)	G-D	-473 / 0	0.09 (1)	
C-D	-1 / 62	-129.7 -129.7	0.62 (1)	D-E	-45 / 4	0.01 (1)	
D-E	-4 / 68	-129.7 -129.7	0.08 (1)	E-F	-450 / 0	0.00 (1)	
E-F	0 / 0	0.0 0.0	0.00 (1)				
F-E	-17 / 0	0.0 0.0	0.00 (3)				
B-J	0 / 97	-38.5 -38.5	0.17 (1)				
J-H	0 / 97	-38.5 -38.5	0.17 (1)				
H-G	0 / 95	-38.5 -38.5	0.16 (2)				
G-F	0 / 0	-38.5 -38.5	0.12 (3)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00H2

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2012, OSC 2016
- CSA 086-08, CSA 086-14
- TRC 2011, TRC 2014

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

(55 % OF 54.3 P.S.F. G.B.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1 TC=0.82/1.00 (C-D:1), BC=0.17/1.00 (B-J:1), WB=0.10/1.00 (C-G:1), SB=0.38/1.00 (B-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)	MIN
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1667 788	1967 1698

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.33 (B) (INPUT = 0.60)
JSI METAL = 0.20 (D) (INPUT = 1.00)



JOB NO. TAM 1805308
STRUCTURAL
CONCRETE ONLY

LONG NO. TAM 7185309
STRUCTURAL
ELEMENT ONLY

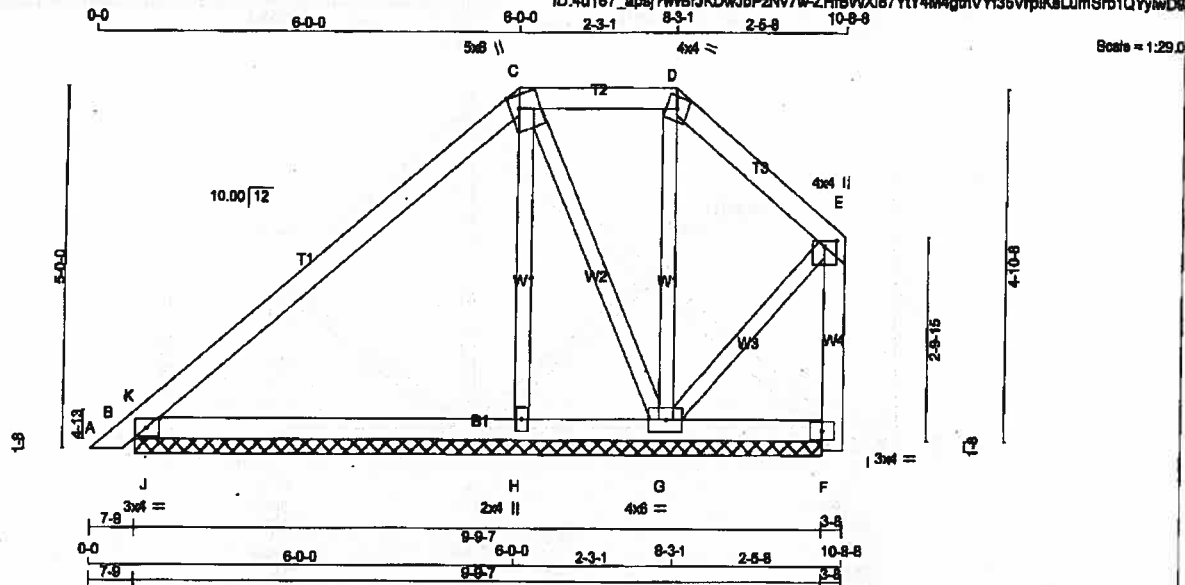


JOB NAME 297082	TRUSS NAME P110	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamrack Roof Truss, Burlington

Version 8.210 8 May 18 2018 Mitek Industries, Inc. Mon Aug 20 18:54:04 2018 Page 1

ID:4u187_apsj7wv8fJKDwJbPzNv7w-ZHf8WAXI87YTY4M4grvYV35VrpkKaLum9rb1QYyWDe



TOTAL WEIGHT = 2 X 43 = 86 b

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
B	508	0	0	508	0	0	9-9-7	9-9-7	
H	438	0	0	438	0	0	9-9-7	9-9-7	
G	818	0	0	818	0	0	9-9-7	9-9-7	

UNFACTORED REACTIONS							
1ST LCASE		MAX MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOL
B	385	253 / 0	44 / 0	0 / 0	0 / 0	88 / 0	0 / 0
H	340	155 / 0	98 / 0	0 / 0	0 / 0	88 / 0	0 / 0
G	587	404 / 0	72 / 0	0 / 0	0 / 0	111 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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				WEBS			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO			FROM TO	MAX. UNBRACED LENGTH (FT)	MAX. UNBRACED LENGTH (FT)	FR-TO	
A-B		0 / 20	-129.7 -129.7	0.03 (1)	10.00	H-C	
B-K		-83 / 480	-129.7 -129.7	0.31 (1)	6.25	C-G	
K-C		-56 / 15	-129.7 -129.7	0.47 (1)	6.25	G-D	
C-D		0 / 128	-129.7 -129.7	0.13 (1)	10.00	D-E	
D-E		0 / 153	-129.7 -129.7	0.16 (1)	10.00	E-F	
E-F		0 / 0	0.0 0.0	0.00 (1)	10.00	F-G	
F-G		0 / 84	0.0 0.0	0.01 (2)	10.00	G-H	
H-I		-8 / 27	-38.5 -38.5	0.37 (1)	10.00	I-J	
I-J		-8 / 27	-38.5 -38.5	0.37 (1)	10.00	J-K	
J-K		-8 / 25	-38.5 -38.5	0.29 (1)	10.00	K-L	
K-L		0 / 0	-38.5 -38.5	0.08 (2)	10.00	L-M	

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL =	38.2	PSF
	DL =	6.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD = 61.7 PSF			

SPACING = 24.0 IN. CG

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 OBC 2012, OBC 2018
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.47/1.00 (C-K-1), BC=0.37/1.00 (H-I-1), WB=0.14/1.00 (C-G-1), SS=0.88/1.00 (B-J-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE GRIP (DRY) SHEAR		SECTION	
(PSI)		(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	818	354	1887

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.42 (B) (INPUT = 0.90)
JSI METAL = 0.16 (C) (INPUT = 1.00)



DWG NO. TAM 185310
STRUCTURAL
COMPONENT ONLY

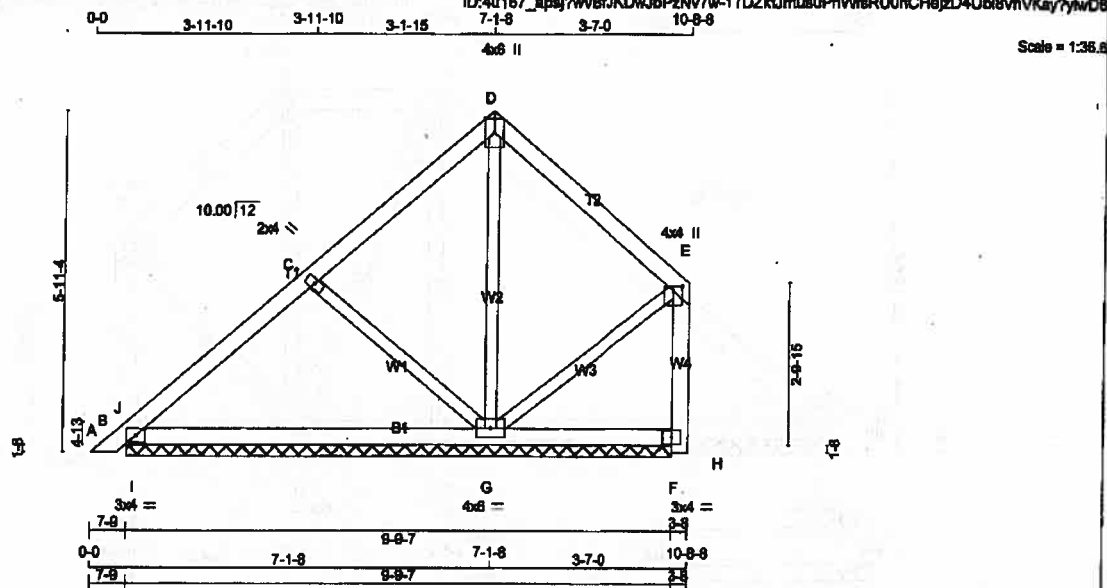


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297082	P111	4	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 5 May 18 2018 Mitek Industries, Inc. Mon Aug 20 18:04:05 2018 Page 1

ID:4u187_apaf7vvBfJKDwJbPzNv7w-1TDZkUmusOPhWteRUOnChajzD4Ub8vhV/Kay7yhwDB



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

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMB14	MT20	3.0	4.0 1.50 2.00
C	TMAW	MT20	2.0	4.0
D	TTW+p	MT20	4.0	6.0 Edge
E	TMAW+p	MT20	4.0	4.0 1.00 2.00
F	BVMH	MT20	3.0	4.0
G	BMWW14	MT20	4.0	6.0

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

FACTORED REACTIONS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	450	0	450	0	9-9-7	9-9-7
G	1315	0	1315	0	9-9-7	9-9-7

UNFACTORED REACTIONS							
JT	COMBINED	MAX/MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	325	214 / 0	47 / 0	0 / 0	0 / 0	65 / 0	0 / 0
G	965	598 / 0	164 / 0	0 / 0	0 / 0	203 / 0	0 / 0

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

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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	LC1 (L)	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX	LC1 (L)	
FR-TO		FROM TO			FR-TO				
A-B	0 / 20	-129.7 -129.7	0.03 (1)	10.00	C-G	-428 / 0	0.13 (1)	10.00	
B-J	-484 / 0	-129.7 -129.7	0.18 (3)	8.25	G-D	-673 / 0	0.34 (1)	10.00	
J-C	-145 / 5	-129.7 -129.7	0.25 (1)	6.25	G-E	-208 / 0	0.08 (1)	10.00	
C-D	0 / 167	-129.7 -129.7	0.28 (1)	10.00	I-J	0 / 499	0.00 (1)	10.00	
D-E	0 / 223	-129.7 -129.7	0.32 (1)	10.00					
H-F	0 / 0	0.0 0.0	0.00 (1)	10.00					
F-E	0 / 44	0.0 0.0	0.01 (3)	10.00					
B-I	0 / 154	-38.5 -38.5	0.13 (3)	10.00					
I-G	0 / 154	-38.5 -38.5	0.25 (2)	10.00					
G-F	0 / 0	-38.5 -38.5	0.23 (2)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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 2012, CBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TO=0.32/1.00 (D-E:1), BC=0.25/1.00 (G-I:2), WB=0.34/1.00 (D-G:1), SS=0.28/1.00 (B-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.

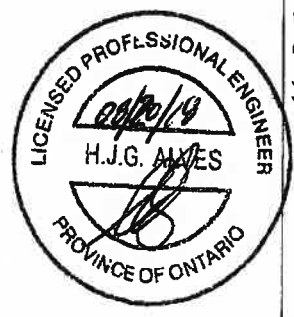
NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PS)	(PL)	(PL)
MT20	616	354	1667 768 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.30 (G) (INPUT = 0.90)

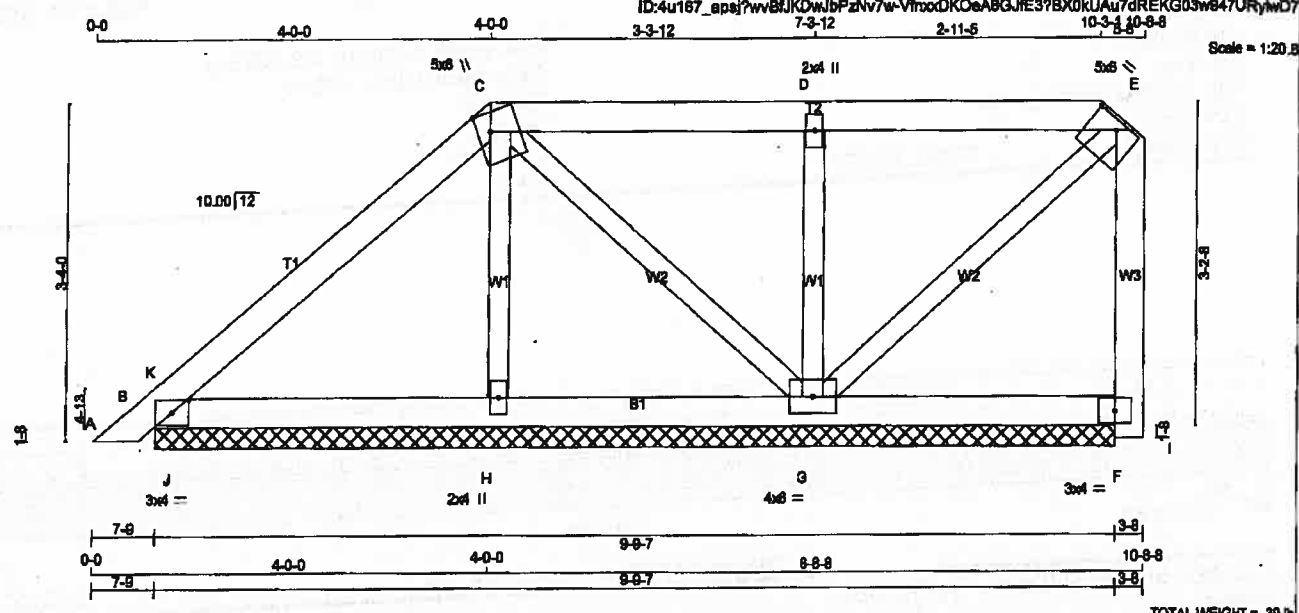
JSI METAL= 0.13 (C) (INPUT = 1.00)



DRWG NO. TAM 1150534
STRUCTURAL
COMPONENT ONLY



JOB NAME 297082	TRUSS NAME P112	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					Version 8.210 8 May 18 2018 Mitek Industries, Inc. Mon Aug 20 16:04:08 2018 Page 1



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

PLATES (table in top in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TM81-J	MT20	3.0	4.0	1.60	2.00
C	TTWW+m	MT20	5.0	6.0	2.25	1.50
D	TMW+w	MT20	2.0	4.0		
E	TMW/m	MT20	5.0	6.0	1.00	3.25
F	BMW	MT20	3.0	4.0		
G	BMWWWW1-J	MT20	4.0	6.0		
H	BMW1+w	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
REARINGS									
FACTORED		MAXIMUM FACTORED		INPUT		REQD			
GROSS REACTION		GROSS REACTION		BRG		BRG			
JT	VERT	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			
B	320	0	320	0	0	9-9-7	9-9-7		
H	347	0	347	0	0	9-9-7	9-9-7		
G	1088	0	1088	0	0	9-9-7	9-9-7		

UNFACTORED REACTIONS						
JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS				
B	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
B	226	188 / 0	20 / 0	0 / 0	0 / 0	40 / 0
H	284	133 / 0	88 / 0	0 / 0	0 / 0	55 / 0
G	801	512 / 0	125 / 0	0 / 0	0 / 0	184 / 0

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

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

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)
FR-TO			
A-B	0 / 20	-129.7 -129.7	0.08 (1)
B-K	-8 / 172	-129.7 -129.7	0.08 (1)
K-C	0 / 39	-129.7 -129.7	0.19 (1)
C-D	0 / 256	-129.7 -129.7	0.29 (1)
D-E	0 / 284	-129.7 -129.7	0.29 (1)
E-F	0 / 0	0.0 0.0	0.00 (1)
F-G	0 / 67	0.0 0.0	0.01 (3)
B-J	-27 / 0	-38.5 -38.5	0.15 (1)
J-H	-27 / 0	-38.5 -38.5	0.15 (1)
H-G	-29 / 0	-38.5 -38.5	0.10 (2)
G-F	0 / 0	-38.5 -38.5	0.08 (3)

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL	=	38.2 PSF
	DL	=	6.0 PSF
BOT CH.	LL	=	10.5 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 61.7 PSF			

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.28/1.00 (C-0-1), BC=0.15/1.00 (H-J-1), WB=0.10/1.00 (E-G-1), SB=0.35/1.00 (B-I-1)

DOL LUMBER=1.00 NAIL=1.00 LBS 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 (PL)	SECTION (PL)	MAX MIN	MAX MIN
MT20	618	354	1687	768	1887
PLATE PLACEMENT TOL. = 0.250 inches					
PLATE ROTATION TOL. = 5.0 Deg.					
JSI GRIP= 0.32 (C) (INPUT = 0.90)					
JSI METAL= 0.12 (D) (INPUT = 1.00)					



DRWG NO. TAM 11805312
STRUCTURAL
COMPONENT ONLY

Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

Roof Beam\RB01

August 20, 2018 15:58:47

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

Build 6538

Job Name:

Address:

City, Province, Postal Code:

Customer:

Code reports:

CCMC 12472-R

File Name: BLOCKS 139-149.bcc

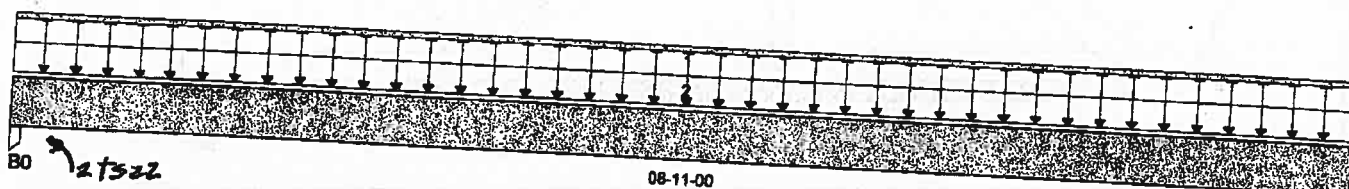
Description: Designs\RB01

Specifier:

Designer:

Company:

Misc:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 5-1/2"	1,399 / 0	1,735 / 0	6,613 / 0	0 / 2,952
B1, 3-1/2"	1,347 / 0	1,671 / 0	6,370 / 0	0 / 2,844

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Live	Dead	Snow	Wind	Trib.
1	uplift	Unf. Lin. (lb/ft)	L	00-00-00	08-11-00	1.00	0.85	1.00	1.15	
2	trusses	Unf. Area (lb/ft²)	L	00-00-00	08-11-00	11	13	52	-650	n/a

Controls Summary

	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	24,197 ft-lbs	55,212 ft-lbs	43.8%	10	04-06-08
Neg. Moment	-4,865 ft-lbs	-63,493 ft-lbs	7.7%	21	04-06-08
End Shear	8,711 lbs	21,696 lbs	40.1%	10	01-05-06
Total Load Defl.	L/742 (0.134")	0.415"	32.3%	27	04-06-08
Live Load Defl.	L/999 (0.106")	n/a	n/a	39	04-06-08
Total Neg. Defl.	L/999 (-0.008")	n/a	n/a	29	04-06-08
Max Defl.	0.134"	1"	13.4%	27	04-06-08
Span / Depth	8.4	n/a	n/a		00-00-00

Bearing Supports

	Dim. (L x W)	Demand	Demand / Resistance Support	Demand / Resistance Member	Material
B0 Post	5-1/2" x 5-1/4"	12,787 lbs	25.5%	36.3%	Spruce Pine Fir
B1 Post	3-1/2" x 3-1/2"	12,318 lbs	58%	82.4%	Spruce Pine Fir

Cautions

Uplift of 2,571 lbs found at span 1 - Left. **2-T622 ON EACH END**
 Member is not fully supported at post B1. A connector is required at this bearing.
 For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.
 For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes





Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

Roof Beam\RB01

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

August 20, 2018 15:58:47

Build 6536

Job Name:

Address:

City, Province, Postal Code:

Customer:

Code reports: CCMC 12472-R

File Name: BLOCKS 139-149.bcc

Description: Designs\RB01

Specifier:

Designer:

Company:

Misc:

Design meets User specified (L/240) Total load deflection criteria.

Design meets User specified (L/360) Live load deflection criteria.

Design meets User specified (1") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86.

Design based on Dry Service Condition.

Importance Factor : Normal Part code : Part 4

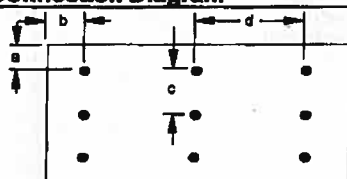
Fastener Manufacturer: Simpson Strong-Tie, Inc.

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-864-6999 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RM BOARD™, BC®, BOISE GLULAM™, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS®, VERSA-RIM®, VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade Wood Products L.L.C.

Connection Diagram



a minimum = 1-1/2" c = 4-7/16"

b minimum = 6" d = 6"

e minimum = 1"

Calculated Side Load = 1,883.0 lb/ft

Install Screws with screw heads in the loaded ply.

Connectors are: SDW22500



ENGINEER 11805324
STRUCTURAL
C/O [illegible] 2/2

LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options Information on pp. 125-127.

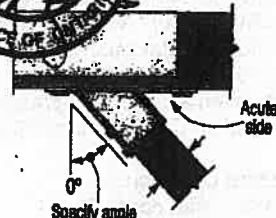
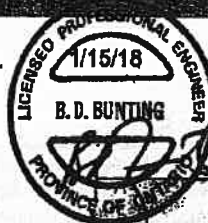
HHUS — Skewed and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.82 of the table value
- The joist must be bevel-out to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.62 of table value	0.46 of table value
2" < W < 6"	Bevel cut	0.67 of table value	0.41 of table value
2" < W < 6"	Square cut	0.48 of table value	0.41 of table value
W > 6"	Bevel cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger
Skewed Right
(Joist must be bevel cut)
All joist nails installed on the outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Plated Truss Connectors

Hanger Size	L	Dimensions (in.)				Fasteners		Resistance (lb.)			
		W	H	B	1/4"	Header	Joist	10d		1/2"	
								lb.	lb.	lb.	lb.
Single 2x Sizes											
LUS24	18	1 1/2	3 1/4	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
LU24L	22	1 1/2	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	960	1020	320	725
LU24	22	1 1/2	5	1 1/4	4 1/4	(6) 10d	(2) 10d x 1 1/2"	720	1805	645	1140
LUS28	18	1 1/2	4 1/4	1 3/4	3 1/4	(4) 10d	(4) 10d	1420	2170	1290	1630
HUS28	16	1 1/2	5 1/4	3	3 1/4	(4) 10d	(4) 10d	2705	4940	2085	3875
LUS28L	18	1 1/2	5	3 1/4	4 1/4	(8) 10d	(8) 10d	2055	4285	1480	4115
HUS28L	12	3 1/2	5 1/4	5	4 1/4	(28) 10d	(8) 10d	2585	6625	2885	6700
LU28L	20	1 1/2	6 1/4	1 1/4	5 1/4	(8) 10d	(8) 10d x 1 1/2"	1140	2185	1020	1550
LUS28	18	1 1/2	6 1/4	1 1/4	3 1/4	(8) 10d	(4) 10d	1420	2520	1290	1790
HUS28	16	1 1/2	7 1/4	3	6 1/4	(22) 10d	(8) 10d	3905	5365	2675	4345
HGUS28	12	1 1/2	7 1/4	5	6 1/4	(36) 10d	(12) 10d	3310	7875	3310	8900
HUS28L	20	1 1/2	8	1 1/4	7 1/4	(10) 10d	(8) 10d x 1 1/2"	1140	2495	1020	1770
LUS210	18	1 1/2	7 1/4	1 1/4	3 1/4	(8) 10d	(4) 10d	1420	2785	1290	2210

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. C_d is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 10d = 0.162" dia. x 3 1/4" long. See pp. 27-28 for other nail sizes and information.

C-C-040818 © 2017 SIMPSON STRONG-TIE COMPANY INC.

Face-Mount Hangers



These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Model No.	Ga.	Dimensions (in.)				Fasteners		Minimum Resistances			
		W	H	S	d ₁	Member	Joints	T _b	T _c	S-P-F	
										U _{bolt} (N _b = 1.75)	Roofing (N _b = 1.50)
								lb.	lb.	lb.	lb.
Double 2x Sizes											
■ LUS24-2	18	3 1/4	8 1/4	2	1 1/4	(4) 16d	(2) 7d	835	2020	600	1485
										5.62	5.38
■ LUS26-2	18	3 1/4	4 1/4	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
										6.87	6.54
■ HHUS26-2	14	3 1/4	5 1/4	3	3 1/4	(14) 16d	(8) 16d	2540	7395	2085	5205
										9.20	24.15
■ HGLUS26-2	12	3 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
										13.83	28.27
■ LUS28-2	18	3 1/4	7	2	4	(8) 16d	(4) 16d	1720	3325	1545	2575
										6.87	11.45
■ HHUS28-2	14	3 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3785	8940	2675	6345
										11.80	28.22
■ HGLUS28-2	12	3 1/4	7 1/4	4	6 1/4	(28) 16d	(12) 16d	6070	12980	4310	9215
										18.17	40.89
■ LUS210-2	18	3 1/4	9	2	8	(8) 16d	(8) 16d	2580	4500	2320	3195
										10.32	14.21
■ HHUS210-2	14	3 1/4	9 1/4	3	8	(30) 16d	(10) 16d	4670	9920	4235	7000
										12.84	35.14
■ HGLUS210-2	12	3 1/4	9 1/4	4	8 1/4	(40) 16d	(16) 16d	6840	14015	4855	10270
										21.80	45.89
Triple 2x Sizes											
■ HGLUS24-3	12	4 1/4	5 1/4	4	4 1/4	(24) 16d	(8) 16d	4385	8950	3110	6355
										13.83	28.27
■ HGLUS26-3	12	4 1/4	7 1/4	4	6 1/4	(38) 16d	(12) 16d	6070	12980	4310	9215
										18.17	40.89
■ HHUS26-3	14	4 1/4	9	3	7 1/4	(58) 16d	(18) 16d	4670	9970	4235	6855
										12.84	35.14
■ HGLUS28-3	12	4 1/4	9 1/4	4	8 1/4	(48) 16d	(18) 16d	6840	14845	4855	10400
										21.80	46.35
Quadruple 2x Sizes											
■ HGLUS24-4	12	5 1/4	5 1/4	4	4 1/4	(34) 16d	(8) 16d	4385	8950	3110	6355
										13.83	28.27
■ HGLUS26-4	12	5 1/4	7 1/4	4	6 1/4	(58) 16d	(12) 16d	6070	12980	4310	9215
										18.17	40.89
■ HHUS26-4	14	5 1/4	9 1/4	3	7 1/4	(88) 16d	(18) 16d	4670	10155	4235	7210
										12.84	32.07
■ HGLUS28-4	12	5 1/4	9 1/4	4	8 1/4	(68) 16d	(18) 16d	6840	14845	4855	10400
										21.80	46.35
■ HGLUS212-4	12	5 1/4	10 1/4	4	10 1/4	(58) 16d	(20) 16d	7840	14895	5425	10845
										24.13	42.35
■ HGLUS214-4	12	5 1/4	12 1/4	4	11 1/4	(68) 16d	(22) 16d	10130	18400	7195	11845
										32.00	51.30
4x Sizes											
■ LUS48	18	3 1/4	4 1/4	2	3 1/4	(4) 16d	(4) 16d	1720	2595	1545	1920
										6.87	5.54
■ HHUS48	14	3 1/4	5 1/4	3	3 1/4	(14) 16d	(8) 16d	2540	7395	2085	5205
										9.20	24.15
■ HGLUS48	12	3 1/4	5 1/4	4	4 1/4	(20) 16d	(8) 16d	4385	8950	3110	6355
										13.83	28.27
■ LUS48	18	3 1/4	6 1/4	2	3 1/4	(8) 16d	(4) 16d	1720	3325	1545	2575
										6.87	11.45
■ HHUS48	14	3 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3785	8940	2675	6345
										11.80	28.22
■ HGLUS48	12	3 1/4	7 1/4	4	6 1/4	(38) 16d	(12) 16d	6070	12980	4310	9215
										18.17	40.89
■ LUS410	18	3 1/4	8 1/4	2	5 1/4	(8) 16d	(8) 16d	2580	4500	2320	3195
										10.32	14.21
■ HGLUS410	12	3 1/4	8	4	8 1/4	(48) 16d	(16) 16d	6840	14015	4855	10270
										21.80	45.89
■ HGLUS412	12	3 1/4	10 1/4	4	10 1/4	(58) 16d	(20) 16d	7840	14895	5425	10845
										24.13	47.35
■ HGLUS414	12	3 1/4	12 1/4	4	11 1/4	(68) 16d	(22) 16d	10130	18400	7195	11845
										32.00	61.80



Plated Truss Connectors

C-C-000018 ©2017 SIMPSON STRONG-TIE COMPANY INC.

See footnote on p. 259.

TBE – Truss Bearing Enhancers

SIMPSON
Strong-Tie

One size works with any number of girder plys. The TBE transfers load from the truss or girder to plates for bearing-limited conditions, and provides exceptional uplift capacity. Replaces nail-on scabs that provide lower load transfer, or in some cases, an additional ply when needed for bearing. The table lists factored resistances for TBE4 used on 2x4 and TBE6 used on 2x6 top plates. The tables give the different resistances calculated for TBE with and without wood bearing.

Material: 18 gauge

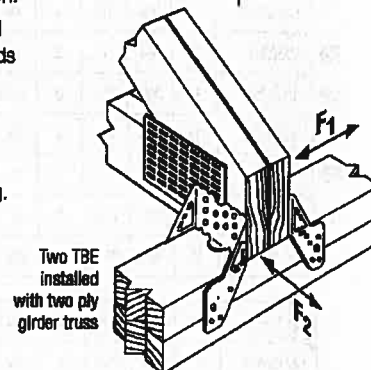
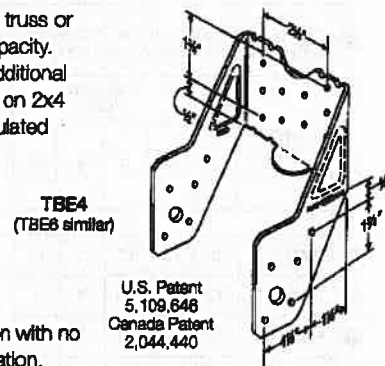
Finish: G90 galvanized

Design:

- Factored resistances are in accordance with CSA 086-14.
- Factored uplift resistances have been increased 15% for short term load duration with no further increase allowed; reduce resistances by 15% for standard term load duration.
- Factored resistances are determined by nail shear calculations or tests of the metal connectors. The attached wood members must be designed to withstand the loads imposed by the nails.

Installation:

- Use all specified fasteners.
- Nails: 10d = 0.148" dia x 3" long common wire, 10d x 1½" = 0.148" dia x 1½" long.
- TBE must be installed in pairs.
- Top plate size is 2x4 for TBE4, 2x6 for TBE6. Use alternate installation for TBE4 and TBE6 on larger plates or pre-sheathed walls.
- Do not use TBES in end-grain-bearing applications.
- See current catalogue for alternate installations.



Model No.	No. of Piles	Fasteners		TBE Only Factored Resistance				Combined TBE and Wood Bearing Factored Resistance	
		Truss	Plate	Uplift (K ₀ = 1.15)	Normal (K ₀ = 1.00)	Lateral (K ₀ = 1.15)		Normal ¹ (K ₀ = 1.00)	TBL ⁴
				lb.	lb.	lb.	lb.		
D-Fir-L									
TBE4	1	(20) 10d x 1½"	(20) 10d x 1½"	1605	3540	655	1415	7820	6.44
	2	(20) 10d	(20) 10d	1605	3660	655	1415	12180	5.00
	3	(20) 10d	(20) 10d	1605	3660	655	1415	16445	4.50
	4	(20) 10d	(20) 10d	1605	3660	655	1415	20705	4.25
TBE6	1	(20) 10d x 1½"	(20) 10d x 1½"	1760	3540	490	1745	10235	8.41
	2	(20) 10d	(20) 10d	1760	3660	490	1745	17250	7.09
	3	(20) 10d	(20) 10d	1760	3660	490	1745	23945	6.56
	4	(20) 10d	(20) 10d	1760	3660	490	1745	30640	6.29
S-P-F									
TBE4	1	(20) 10d x 1½"	(20) 10d x 1½"	1605	3220	615	1415	6445	8.99
	2	(20) 10d	(20) 10d	1605	3440	615	1415	9890	5.37
	3	(20) 10d	(20) 10d	1605	3440	615	1415	13120	4.74
	4	(20) 10d	(20) 10d	1605	3440	615	1415	16345	4.43
TBE6	1	(20) 10d x 1½"	(20) 10d x 1½"	1760	3220	490	1585	8290	8.99
	2	(20) 10d	(20) 10d	1760	3440	490	1585	13680	7.42
	3	(20) 10d	(20) 10d	1760	3440	490	1585	18750	6.78
	4	(20) 10d	(20) 10d	1760	3440	490	1585	23820	6.46

1. Factored resistances are for two TBES only. Wood factored bearing resistance may be added as shown in the table.
2. Factored bearing resistances shown assume Q_u/A₀ and Q_v/A_v = 812 psi (5.60 MPa) for D-Fir-L and 614 psi (4.24 MPa) for S-P-F. See clauses 6.5.4 and 7.5.9 TPIC 2014 for required bearing reinforcement when compression loads are applied to both sides of truss member.
3. Use lower of top plate or wood truss species.
4. Total bearing length, TBL, equals the plate width plus simulated bearing length provided by the TBE. TBE4 = 3½" plate width; TBE6 = 5½" plate width.



(800) 999-5099
strongtie.com

TS/LTS/MTS/HTS

SIMPSON
Strong-Tie

Twist Straps

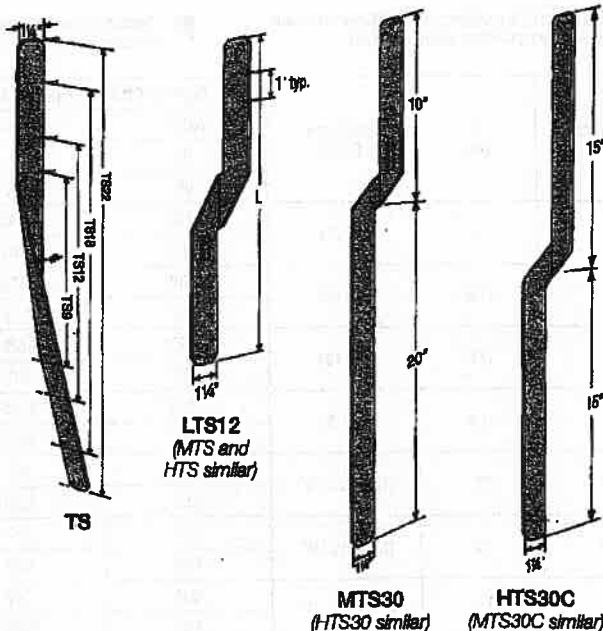
Twist straps provide a tension connection between two wood members. They resist uplift at the heel of a truss economically. The 3"-band section eliminates interference at the transition points between wood members. TS twist straps come with an equal number of left and right hand units in each carton.

Material: LTS — 18 gauge; MTS/TS — 16 gauge; HTS — 14 gauge

Finish: Galvanized. Some products available in stainless steel and ZMAX® coating; see Corrosion Information, pp.20-24.

Installation:

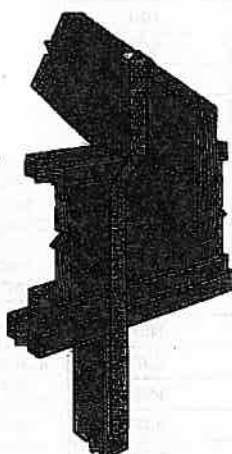
- Use all specified fasteners; see General Notes
- TS should be installed in pairs to reduce eccentricity
- When LTS/MTS is installed as truss-to-top plate tie, install (3) 10d x 1½" nails to the underside of the plate and (3) 10d x 1½" nails into the edge of the double top plate
- LTS, MTS and HTS are available with the band reversed. Specify "-REV" after model number, such as MTS16-REV



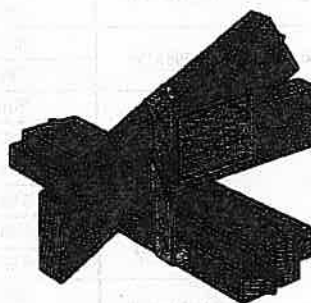
Straps and Ties



MTS30 Installation with I-Joist Rafter



Typical MTS30 Installation



MTS Installation as a Truss-to-Top Plate Tie



Typical TS Installation

TS/LTS/MTS/HTS



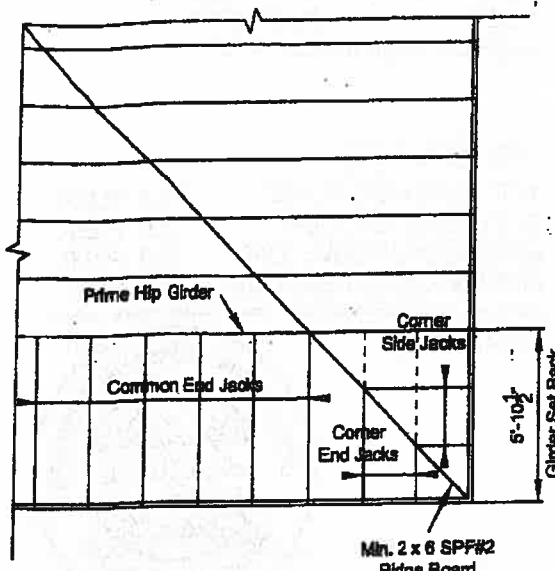
Twist Straps (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Model No.	L (in.)	Fasteners (Total)	Factored Resistance ($K_F = 1.15$)	
			U-Fr-L	S-P-F
			lb.	lb.
			kN	kN
TS9	9	(3) 16d	1125	1040
			5.00	4.63
TS12	11 1/4	(10) 16d	1410	1300
			6.27	5.78
TS18	17 3/4	(14) 16d	1970	1820
			8.78	8.16
TS22	21 1/4	(18) 16d	2125	2125
			9.45	9.45
SS LTS12	12	(12) 10d x 1 1/2"	1015	720
			4.52	3.20
LTS16	16	(12) 10d x 1 1/2"	1015	720
			4.52	3.20
SS LTS18	18	(12) 10d x 1 1/2"	1015	720
			4.52	3.20
LTS20	20	(12) 10d x 1 1/2"	1015	720
			4.52	3.20
MTS12	12	(14) 10d x 1 1/2"	1570	1180
			6.98	5.25
MTS16	16	(14) 10d x 1 1/2"	1570	1180
			6.98	5.25
MTS18	18	(14) 10d x 1 1/2"	1570	1180
			6.98	5.25
SS MTS20	20	(14) 10d x 1 1/2"	1570	1180
			6.98	5.25
MTS30	30	(14) 10d x 1 1/2"	1570	1180
			6.98	5.25
MTS24C	24	(14) 10d x 1 1/2"	1570	1180
			6.98	5.25
MTS30C	30	(14) 10d x 1 1/2"	1570	1180
			6.98	5.25
HTS16	16	(16) 10d x 1 1/2"	2050	1455
			9.12	6.47
HTS20	20	(24) 10d x 1 1/2"	2050	1455
			9.12	6.47
HTS24	24	(24) 10d x 1 1/2"	2050	1455
			9.12	6.47
HTS28	28	(24) 10d x 1 1/2"	2050	1455
			9.12	6.47
HTS30	30	(24) 10d x 1 1/2"	2050	1455
			9.12	6.47
HTS30C	30	(24) 10d x 1 1/2"	2050	1455
			9.12	6.47

1. LTS12 through LTS20, MTS18 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.
4. All straps except the MTS30 and HTS30 have the twist in the centre of the strap.
5. Twist straps do not have to be wrapped over the truss to achieve the load.
6. Optional nail holes are provided on some straps.
7. When used as a truss-to-top plate tie multiply the tabulated values by 0.95 for LTS and 0.74 for MTS. HTS cannot be used in this application.
8. Nails: 10d = 0.148" dia. x 3" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long. See pp. 27-28 for other nail sizes and information.



45° Hip End

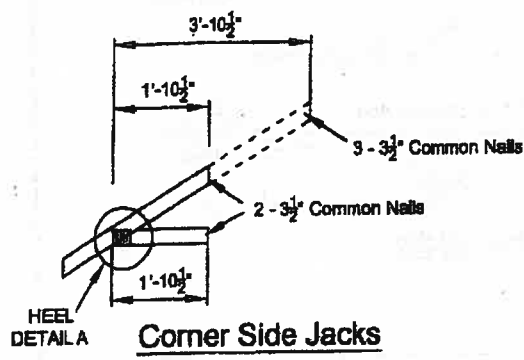
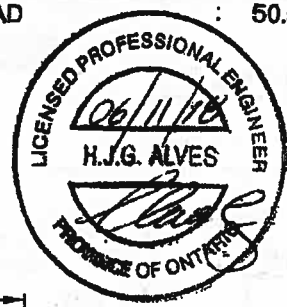
LUMBER SPECIFICATION

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

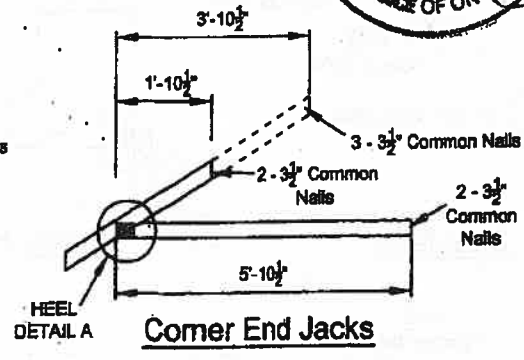
DESIGN LOAD

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.

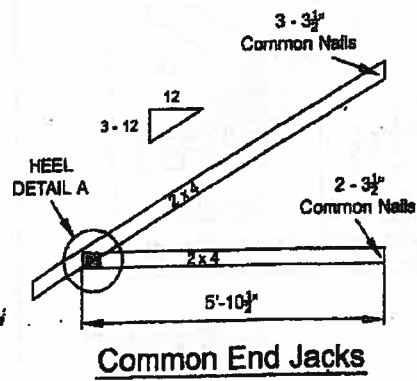
TOTAL LOAD : 50.5 P.S.F



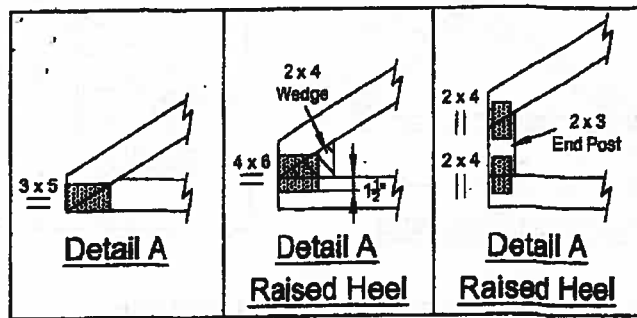
Corner Side Jacks



Corner End Jacks

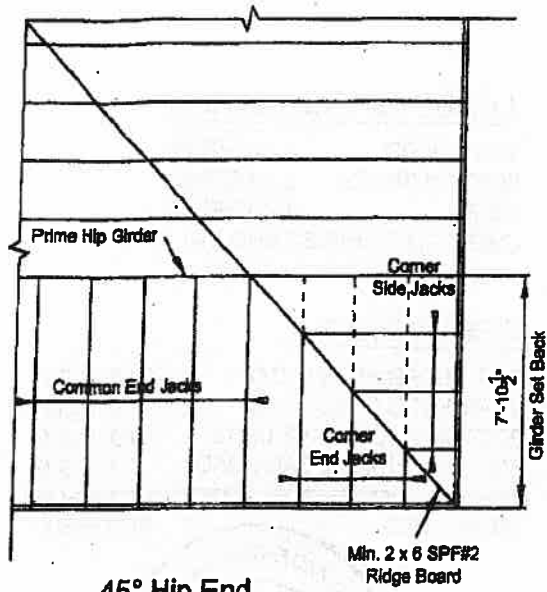


Common End Jacks



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

T-1800216



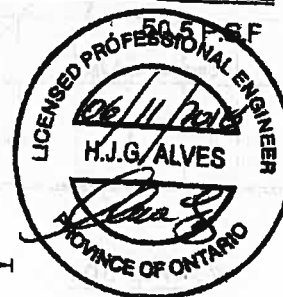
LUMBER SPECIFICATION

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

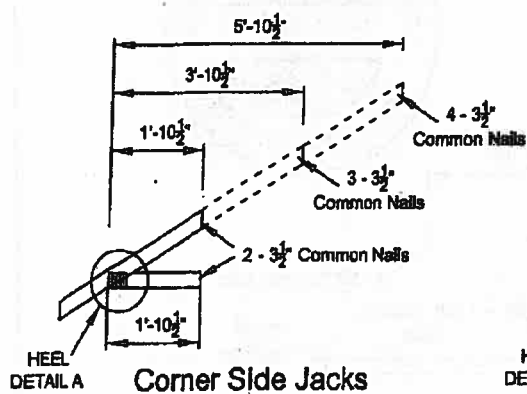
DESIGN LOAD

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.

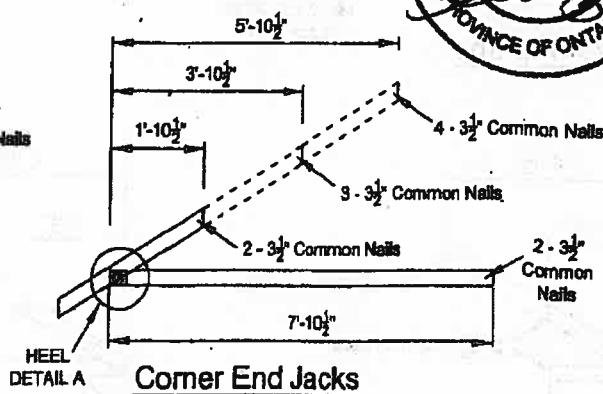
TOTAL LOAD



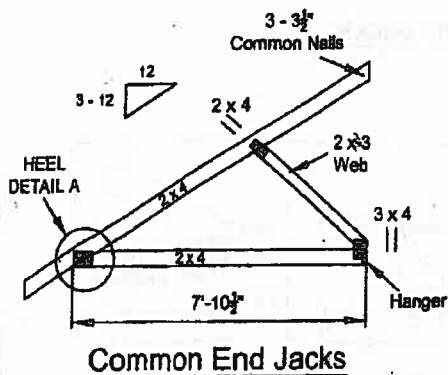
45° Hip End



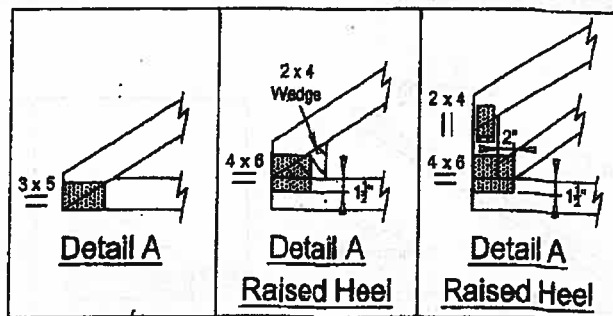
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

T-1800217

TECH-NOTES

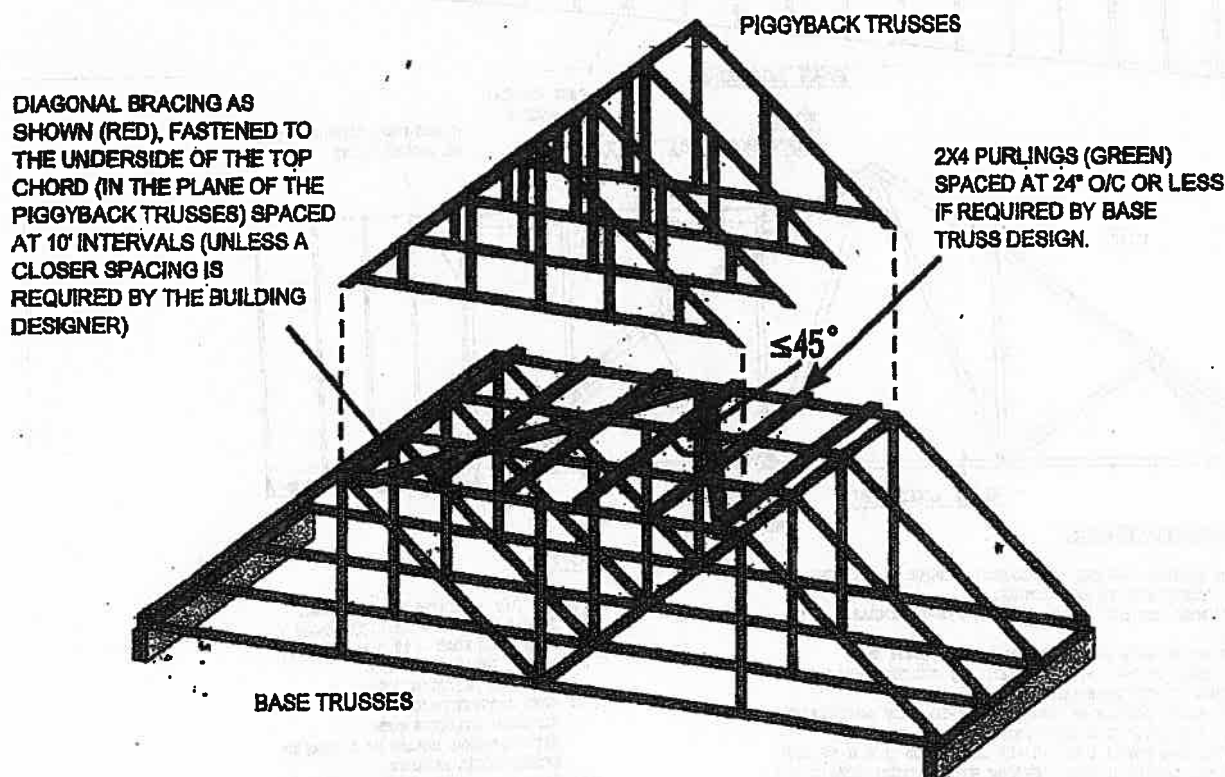
TN 15-001 Piggyback Bracing

Overview:

Where piggybacks are connected ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

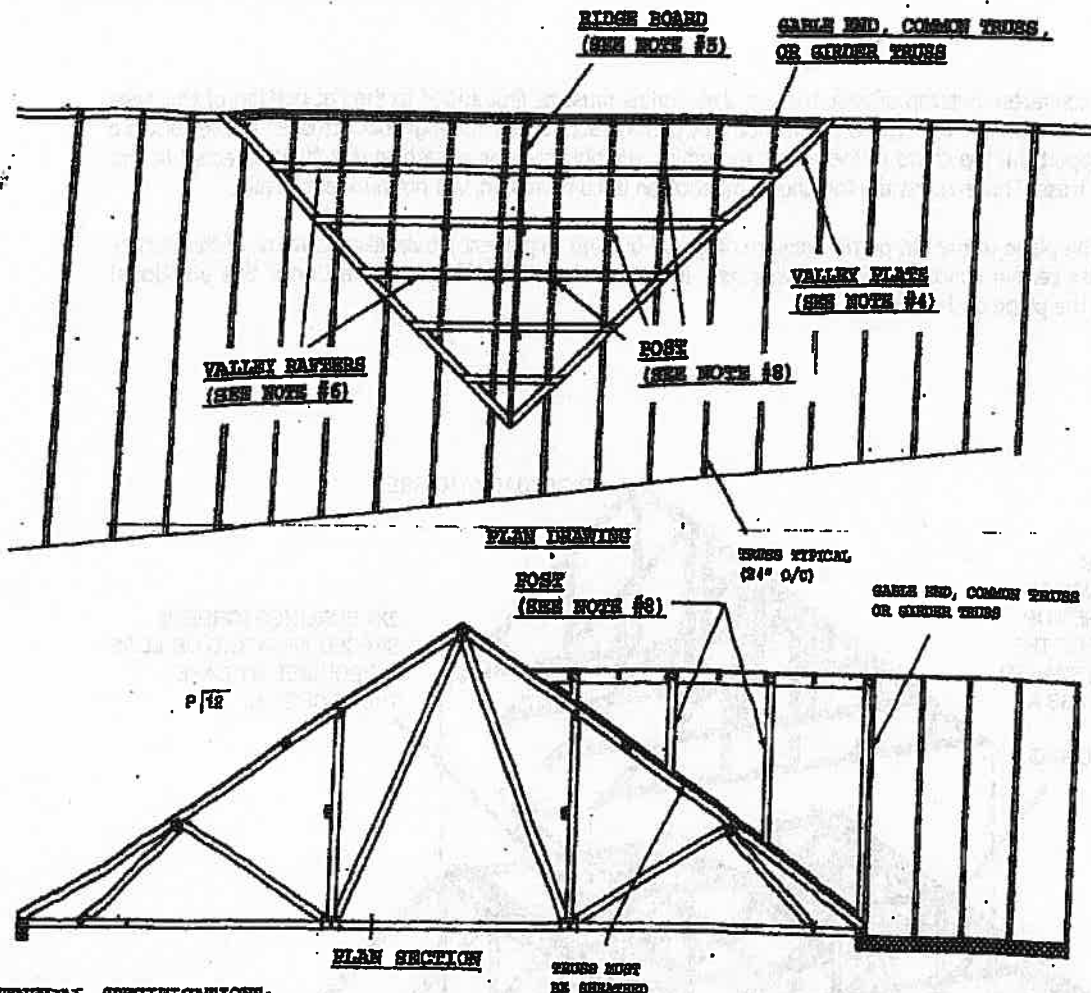


MICRO CITY ENGINEERING SERVICES INC.

TEL: (519) 287 - 2242

R.R. #1, P.O. BOX 61, GLENCOE, ONTARIO, NOL 1M0

CONVENTIONAL VALLEY FRAMING DETAIL

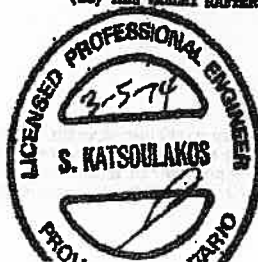


GENERAL SPECIFICATIONS:

- (1) WITH THE BASE TRUSSES ERECTED (DETAILED), APPLY SHEATHING TOP CHORD OF SUPPORTING (BASE) TRUSSES.
- (2) BRACE BOTTOM CHORD AND WEB MEMBERS AS PER PRE-ENGINEERED TRUSS DESIGN.
- (3) DEFINE VALLEY RIDGE BY MARKING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a) GABLE END, (b) GIRDER TRUSS OR (c) COMMON TRUSS TO THE ROOF SHEATHING.
- (4) INSTALL 2 X 6 VALLEY PLATE ON FLAT, FASTEN TO EACH SUPPORTING TRUSS WITH (2) 16d (3.5" X 0.131") NAILS.
- (5) SET A 2 X 6 RIDGE BOARD (MAX. 10'-0" RIDGE) OR 2 X 8 #2 SPF RIDGE BOARD (MAX. 20'-0" RIDGE). SUPPORT RIDGE BOARD WITH 2 X 4 POSTS SPACED 48" O/C. LEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (3" X 0.131") TOR-HEADS.
- (6) FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD, MAXIMUM RAFTER SPACING IS 24" O/C. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (3.5" X 0.131") TOR-HEADS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (3.5" X 0.131") TOR-HEADS.
- (7) SUPPORT THE VALLEY RAFTERS WITH 2 X 4 POSTS AT 48" O/C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED FASHION AS SHOWN ON PLAN DRAWING. ALIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSSES WITH (2) 16d (3.5" X 0.131") NAILS.
- (8) POSTS SHALL BE 2 X 4 #2 SPF OR BETTER, POSTS EXCEEDING 75' IN HEIGHT SHALL BE INCREASED TO 4 X 4 #2 SPF, OR BETTER, OR BE PRE-ASSEMBLED TWO (2) PLY 2 X 4 #2 SPF OR BETTER FASTENED TOGETHER WITH 2 ROWS OF 10d (3" X 0.131") NAILS AT 6" O/C.
- (9) MAINTAIN A MINIMUM 3/4" JOIST EDGE DISTANCE WHEN NAILING. NAIL SPACING SHOULD APPROXIMATE A MINIMUM 1-3/4" O/C OR MORE UNLESS NOTED OTHERWISE. ALL CONSTRUCTION TO CONFORM TO ONTARIO BUILDING CODE (CURRENT EDITION) AT ALL TIMES.

NOTES:

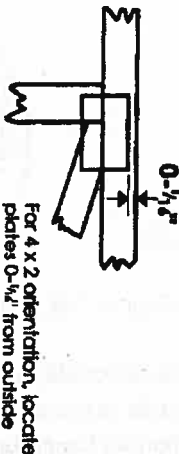
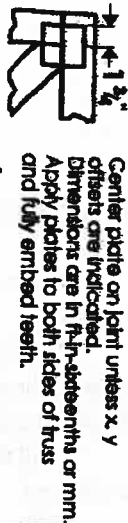
- (10) 48" O/C MAXIMUM POST SPACING.
- (11) ROOF LIVE LOAD = 24.0 PSF (MAX.)
- (12) ROOF DEAD LOAD = 10.0 PSF (MAX.)
- (13) PART 9 APPLICATION ONLY (ONARIO BUILDING CODE)
- (14) PART 4 APPLICATION ONLY (ONARIO BUILDING CODE) WITH APPROVED REVIEW BY LICENSED PROFESSIONAL ENGINEER.
- (15) RAKE TRUSS SPACING (24" O/C MAX.)
- (16) ALL PRE-ENGINEERED BASE TRUSS COMPONENTS TO BE SHOWN BY LICENSED PROFESSIONAL ENGINEER AND THIS DETAIL TO BE VERIFIED AND APPROVED BY SAME WHEN RIDGE BOARD LENGTH EXCEEDS 12'-0".
- (17) ALL BASE TRUSSES: F = 4 (4/12) - MINIMUM.
- (18) ALL VALLEY RAFTERS: D = 4 (4/12) - MINIMUM.



DWG NO TAM 6305.14
STRUCTURAL
COMPONENT ONLY

Symbols

PLATE LOCATION AND ORIENTATION



*Plate location details available in Mitek software or upon request.

PLATE SIZE

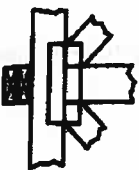
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use 1, 1 or Eliminator bracing if indicated.

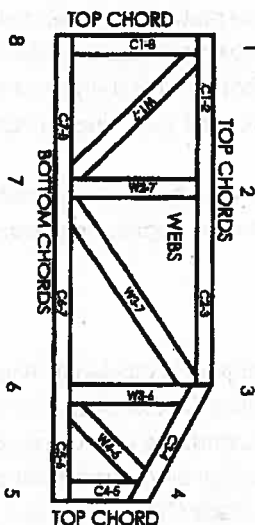
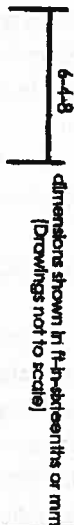
BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:
TFC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
DSB-99: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate
Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

CCMC Reports:

1196-L, 10319-L, 13270-L, 12691-R

© 2007 Mitek® All Rights Reserved



Mitek Engineering Reference Sheet: M17-7473C rev. 10-08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g., diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual braced bays themselves may require bracing, or alternative 1, 1, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stock 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 worn or joint locations are regulated by TFC.
7. Design assumes trusses will be suitably protected from the environment in accord with TFC.
8. Unless otherwise noted, moisture content of lumber and not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with the replacement, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum 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, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TFC Quality Criteria.



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-1300218

Feb 09, 2018