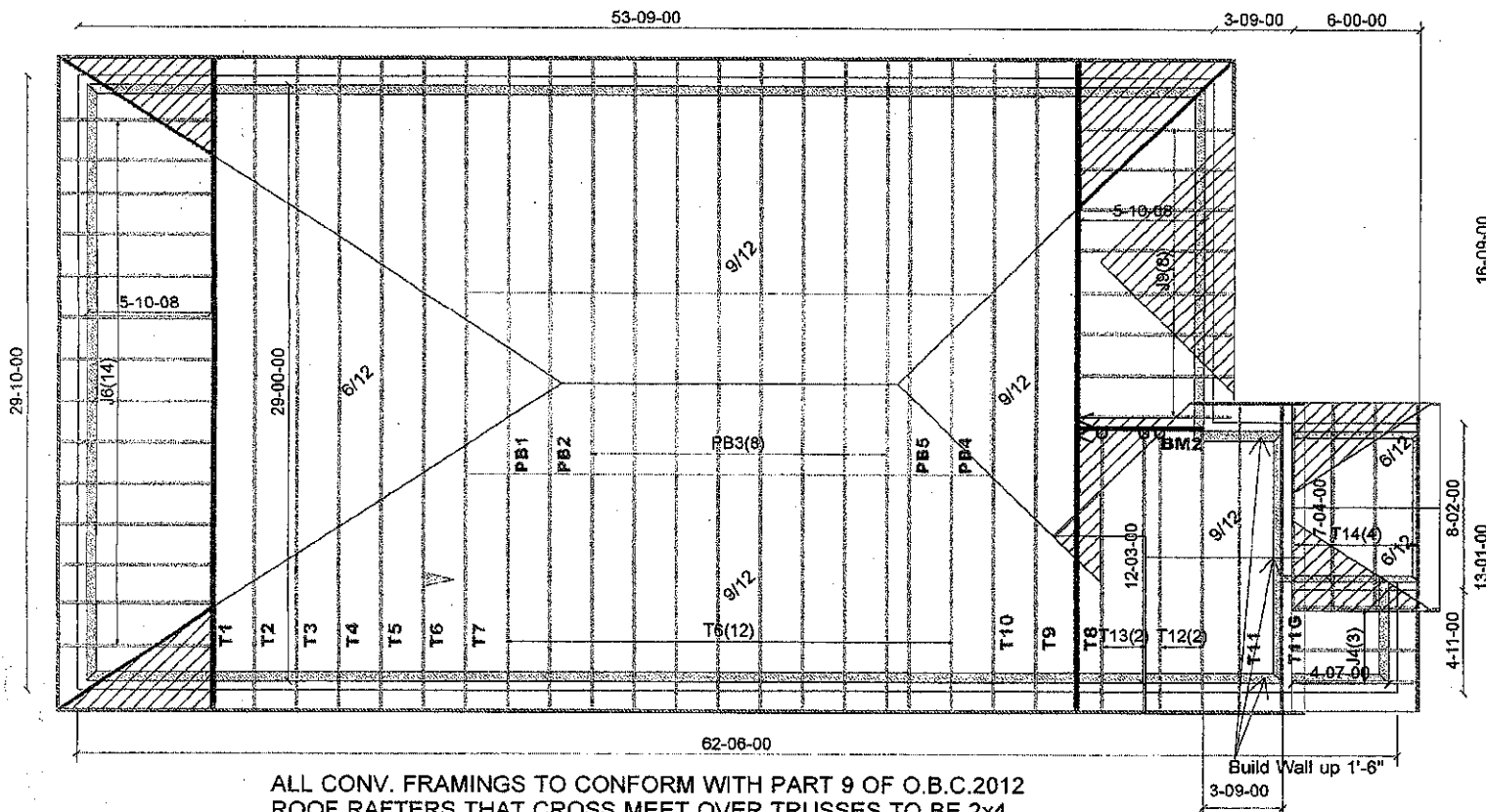


**THIS STRUCTURE MUST BE  
CONSTRUCTED TO MEET OR  
EXCEED THE PROVISIONS OF  
THE ONTARIO BUILDING CODE**



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

HARDWARE:  
LUS24 (o)  
LUS26-2 (VV)

DENOTES  
CONV. FRAMING

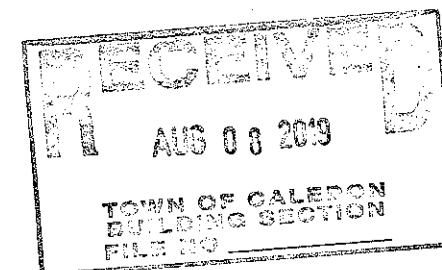
GSL 37.6 PSF

DESIGN CONFORMS  
WITH O.B.C. 2012 PART 9

DESIGN LOADS:  
TC LIVE 29 PSF  
TC DEAD 3 PSF  
BC LIVE 10.5 PSF  
BC DEAD 7 PSF

BM2 = 2 - 2X10

ALL CONV. FRAMINGS TO CONFORM WITH PART 9 OF O.B.C.2012  
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4  
SPF @ 24" O.C. WITH A 2x4 VERT. POST TO THE TRUSS  
UNDERNEATH AT EACH CROSS PT. VERT. POST LONGER THAN 6'  
TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN  
END PT. & BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'



Job Track: **50120**

Plan Log: **200444**

Layout ID: **401156**

Builder / Location:

**Greenpark / Caledon**

Project: **Lamberts Lane Home Corp.**

Date: 2019-02-01 Designer: CS/BF

Model / Elevation:

**Preston 3 / ELV. 1 Lot 62**

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Mitek ver 8.2.3.229



## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: Greenpark  
 Project: Lamberts Lane Home Corp.  
 Location: Caledon  
 Model: Preston 3  
 Lot #: 62  
 Elevation: 1

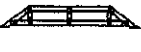
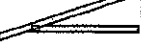
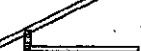
Job Track: 50120  
 PlanLog: 200444  
 Layout ID: 401156  
 Ref #  
 Page: 1 of 2  
 Date: 02-01-2019  
 Designer: Brian Faneca  
 Sales Rep: Mario DiCano

### Roof Trusses

| PROFILE | QTY<br>PLY | MARK<br>TYPE            | PITCH | SPAN     | HEIGHT   | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.      | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|-------------------------|-------|----------|----------|----------------|---------------------------|------------------------------|-------------------|---------------------|--------------------|
|         | 1<br>2-ply | T1<br>Hip Girder        | 9/12  | 29-00-00 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 280.66<br>181.33  |                     |                    |
|         | 1          | T2<br>Hip               | 9/12  | 29-00-00 | 5-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 116.51<br>73.67   |                     |                    |
|         | 1          | T3<br>Hip               | 9/12  | 29-00-00 | 6-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 127.01<br>82.67   |                     |                    |
|         | 1          | T4<br>Hip               | 9/12  | 29-00-00 | 7-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 128.23<br>85.17   |                     |                    |
|         | 1          | T5<br>Hip               | 9/12  | 29-00-00 | 8-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 134.97<br>87.67   |                     |                    |
|         | 13         | T6<br>Piggyback<br>Base | 9/12  | 29-00-00 | 9-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 1841.9<br>1176.50 |                     |                    |
|         | 1          | T7<br>Hip               | 9/12  | 29-00-00 | 10-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 137.62<br>90.00   |                     |                    |
|         | 1<br>2-ply | T8<br>Hip Girder        | 9/12  | 29-00-00 | 5-11-02  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 296.66<br>190.67  |                     |                    |
|         | 1          | T9<br>Hip               | 9/12  | 29-00-00 | 7-05-02  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 130.19<br>83.83   |                     |                    |
|         | 1          | T10<br>Hip              | 9/12  | 29-00-00 | 8-11-02  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 140.46<br>91.17   |                     |                    |
|         | 1          | T11<br>Common           | 9/12  | 12-03-00 | 6-01-06  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 56.46<br>37.67    |                     |                    |
|         | 1          | T11G<br>GABLE           | 9/12  | 12-03-00 | 6-01-06  | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 56.56<br>38.67    |                     |                    |
|         | 2          | T12<br>Common           | 9/12  | 12-03-00 | 7-07-06  | 2 x 4          | 1-03-08<br>1-03-08        | 3-00-04<br>3-00-04           | 130.14<br>83.00   |                     |                    |
|         | 2          | T13<br>Common           | 9/12  | 12-03-00 | 6-10-06  | 2 x 4          | 1-03-08                   | 1-06-04<br>3-00-04           | 110.73<br>71.00   |                     |                    |

|  |  | DELIVERY SHIPLIST                                                                                                                                             |                                                                                                                                                            |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   |  | Lumber Yard: TAMARACK LUMBER<br>Builder: Greenpark<br>Project: Lamberts Lane Home Corp.<br>Location: Caledon<br>Model: Preston 3<br>Lot #: 62<br>Elevation: 1 | Job Track: 50120<br>PlanLog: 200444<br>Layout ID: 401156<br>Ref #<br>Page: 2 of 2<br>Date: 02-01-2019<br>Designer: Brian Faneca<br>Sales Rep: Mario DiCano |

### Roof Trusses

| PROFILE                                                                            | QTY<br>PLY | MARK<br>TYPE                        | PITCH | SPAN    | HEIGHT  | LUMBER | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|------------------------------------------------------------------------------------|------------|-------------------------------------|-------|---------|---------|--------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|    | 4          | T14<br>Common<br>Supported<br>Gable | 6 /12 | 7-04-00 | 2-09-11 | 2 x 4  | 1-03-08<br>1-03-08        | 4-03<br>4-03                 | 90.44<br>57.33   |                     |                    |
|    | 1          | PB1<br>Piggyback                    | 9 /12 | 8-09-05 | 2-00-00 | 2 x 4  |                           |                              | 22.09<br>15.33   |                     |                    |
|    | 1          | PB2<br>Piggyback                    | 9 /12 | 8-09-05 | 3-00-00 | 2 x 4  |                           |                              | 22.61<br>14.83   |                     |                    |
|    | 8          | PB3<br>Piggyback                    | 9 /12 | 8-09-05 | 3-03-08 | 2 x 4  |                           |                              | 184.11<br>118.67 |                     |                    |
|  | 1          | PB4<br>Piggyback                    | 9 /12 | 8-09-05 | 1-03-14 | 2 x 4  |                           |                              | 20.97<br>14.83   |                     |                    |
|  | 1          | PB5<br>Piggyback                    | 9 /12 | 8-09-05 | 2-09-14 | 2 x 4  |                           |                              | 25.91<br>17.83   |                     |                    |
|  | 3          | J4<br>Jack-Open                     | 4 /12 | 5-04-00 | 2-06-03 | 2 x 4  | 1-03-08                   | 3-15<br>1-10-04              | 42.47<br>28.00   |                     |                    |
|  | 14         | J6<br>Jack-Open                     | 6 /12 | 5-10-08 | 4-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>4-01-04           | 235.12<br>149.33 |                     |                    |
|  | 8          | J9<br>Jack-Open                     | 9 /12 | 5-10-08 | 5-11-02 | 2 x 4  | 1-03-08                   | 1-06-04<br>5-11-02           | 160.37<br>108.00 |                     |                    |

TOTAL # TRUSS= 71

TOTAL BFT OF ALL TRUSSES= 2897.17 BFT. TOTAL WEIGHT OF ALL TRSSES 4492.21 LBS

### HARDWARE

| QTY | TYPE     | MODEL   | LENGTH |
|-----|----------|---------|--------|
| 3   | Hardware | LUS24   |        |
| 1   | Hardware | LUS26-2 |        |

TOTAL NUMBER OF ITEMS= 4



|                                 |                  |               |          |                                                                                   |                |
|---------------------------------|------------------|---------------|----------|-----------------------------------------------------------------------------------|----------------|
| JOB NAME<br>200444-401156 •     | TRUSS NAME<br>T1 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>Preston 3                                                            | DRWG NO.<br>T1 |
| Tamarack Roof Truss, Burlington |                  |               |          | Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:08 2018 Page 2 |                |
|                                 |                  |               |          | ID:4xNd4mUPyxd3LURX25ZQKyOFG0-gmSKBVIK1NL7tkpaFSADPH TrGyOJM9OpOSE4zo5IR          |                |

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

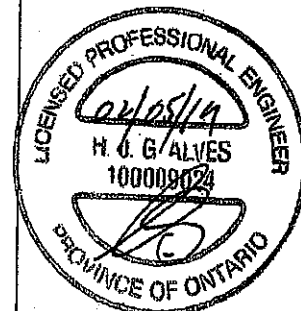
#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                  | WEBS  |                           |                           |                  |
|--------|---------------------------|---------------------------|------------------|-------|---------------------------|---------------------------|------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) |
| FR-TO  |                           | FROM TO                   |                  | FR-TO |                           | FROM TO                   |                  |
| AO-N   | 0/3343                    | -38.5                     | -38.5 0.28 (1)   | 10.00 |                           |                           |                  |
| N-AP   | 0/0                       | -38.5                     | -38.5 0.05 (3)   | 10.00 |                           |                           |                  |
| AP-M   | 0/0                       | -38.5                     | -38.5 0.05 (3)   | 10.00 |                           |                           |                  |

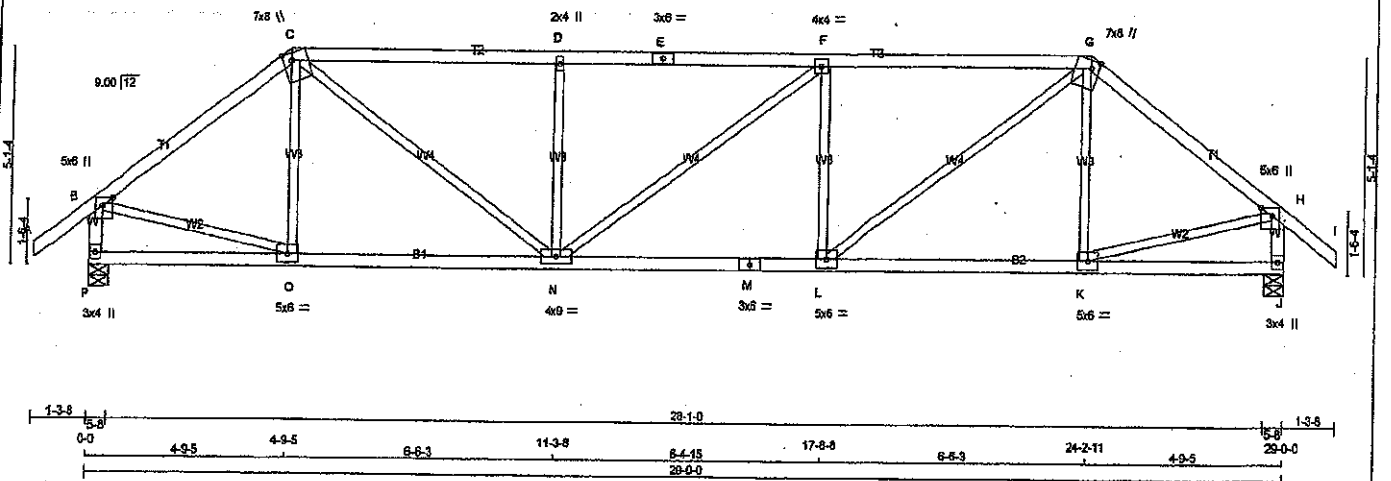
#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| C  | 3-5-5   | -50  | -58  | ---  | FRONT | VERT | DEAD  | ---  | ---   |
| C  | 3-5-5   | -480 | -480 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| C  | 3-5-5   | -285 | -285 | ---  | FRONT | VERT | SNOW  | ---  | ---   |
| F  | 13-7-4  | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| J  | 25-8-11 | -50  | -58  | ---  | FRONT | VERT | DEAD  | ---  | ---   |
| J  | 25-8-11 | -480 | -480 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| J  | 25-8-11 | -285 | -285 | ---  | FRONT | VERT | SNOW  | ---  | ---   |
| N  | 25-3-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| T  | 3-8-12  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| V  | 5-7-4   | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| W  | 7-7-4   | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| X  | 9-7-4   | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| Y  | 11-7-4  | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| Z  | 15-7-4  | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AA | 17-7-4  | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AB | 19-7-4  | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AC | 21-7-4  | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AD | 23-7-4  | -123 | -123 | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AE | 1-8-12  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AF | 5-7-4   | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AG | 7-7-4   | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AH | 9-7-4   | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AI | 11-7-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AJ | 13-7-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AK | 15-7-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AL | 17-7-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AM | 19-7-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AN | 21-7-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AO | 23-7-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |
| AP | 27-3-4  | -55  | -70  | ---  | BACK  | VERT | TOTAL | ---  | ---   |



DWG NO. TAM 1902708  
STRUCTURAL  
COMPONENT ONLY 2/2

|                                                                                   |                         |                      |                 |                               |                       |
|-----------------------------------------------------------------------------------|-------------------------|----------------------|-----------------|-------------------------------|-----------------------|
| JOB NAME<br><b>200444-401156</b>                                                  | TRUSS NAME<br><b>T2</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Preston 3</b> | DRWG NO.<br><b>T2</b> |
| Tamarack Roof Truss, Burlington                                                   |                         |                      |                 |                               |                       |
| Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:07 2018 Page 1 |                         |                      |                 |                               |                       |
| ID: 4xNdf4mUPYxd3LURX25ZQKyOFG0-8y0JPskvogTW4uNm0AhSyvd2CEaD7mAjdT87BWzo5IQ       |                         |                      |                 |                               |                       |
| Scale = 1:50.0                                                                    |                         |                      |                 |                               |                       |



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

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| B                           | TMVW+p  | MT20   | 5.0 | 6.0 | Edge | 3.00 |
| C                           | TTWW+m  | MT20   | 7.0 | 8.0 | Edge | 2.50 |
| D                           | TMVW+w  | MT20   | 2.0 | 4.0 |      |      |
| E                           | TS-t    | MT20   | 3.0 | 6.0 |      |      |
| F                           | TMVW+t  | MT20   | 4.0 | 4.0 |      |      |
| G                           | TTWW+m  | MT20   | 7.0 | 8.0 | Edge | 2.50 |
| H                           | TMVW+p  | MT20   | 5.0 | 6.0 | Edge | 3.00 |
| J                           | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| K, L, O                     |         |        |     |     |      |      |
| K                           | BMVW+t  | MT20   | 5.0 | 6.0 |      |      |
| M                           | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| N                           | BMVW+t  | MT20   | 4.0 | 9.0 |      |      |
| P                           | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

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

| BEARINGS       | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------------|----------------|------------------|-------|------|
| GROSS REACTION | GROSS REACTION | DOWN             | UP    | BRG  |
| JT             | VERT           | 2180             | 0     | 5-8  |
| P              | HORZ           | 0                | 0     | 5-8  |
| J              | VERT           | 2180             | 0     | 5-8  |
| J              | HORZ           | 0                | 0     | 5-8  |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN COMPONENT REACTIONS |
|----------------------|-----------|-----------------------------|
| COMBINED             | SNOW      | LIVE                        |
| JT                   | 1820      | 922 / 0                     |
| P                    | 1820      | 922 / 0                     |
| J                    | 1820      | 922 / 0                     |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.08 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) | UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |
|--------|-----------|---------------------------|---------------------------|--------------|---------------|-------|---------------------------|--------------|
| FR-TO  |           |                           |                           |              |               | FR-TO |                           |              |
| A-B    | 0 / 42    | -102.1                    | -102.1                    | 0.14 (1)     | 10.00         | O-C   | -179 / 111                | 0.07 (1)     |
| B-C    | -2185 / 0 | -102.1                    | -102.1                    | 0.54 (1)     | 4.06          | C-N   | 0 / 1620                  | 0.36 (1)     |
| C-D    | -3030 / 0 | -102.1                    | -102.1                    | 0.92 (1)     | 3.09          | N-D   | -714 / 0                  | 0.27 (1)     |
| D-E    | -3030 / 0 | -102.1                    | -102.1                    | 0.92 (1)     | 3.08          | N-F   | -2 / 0                    | 0.00 (1)     |
| E-F    | -3030 / 0 | -102.1                    | -102.1                    | 0.92 (1)     | 3.08          | L-F   | -714 / 0                  | 0.27 (1)     |
| F-G    | -3031 / 0 | -102.1                    | -102.1                    | 0.93 (1)     | 3.08          | L-G   | 0 / 1622                  | 0.36 (1)     |
| G-H    | -2165 / 0 | -102.1                    | -102.1                    | 0.54 (1)     | 4.08          | K-G   | -180 / 111                | 0.07 (1)     |
| H-I    | 0 / 42    | -102.1                    | -102.1                    | 0.14 (1)     | 10.00         | B-O   | 0 / 1780                  | 0.40 (1)     |
| P-B    | -2111 / 0 | 0.0                       | 0.0                       | 0.22 (1)     | 5.83          | K-H   | 0 / 1780                  | 0.40 (1)     |
| J-H    | -2110 / 0 | 0.0                       | 0.0                       | 0.22 (1)     | 5.83          |       |                           |              |
| P-O    | 0 / 0     | -38.5                     | -38.5                     | 0.23 (3)     | 10.00         |       |                           |              |
| O-N    | 0 / 1725  | -38.5                     | -38.5                     | 0.45 (2)     | 10.00         |       |                           |              |
| N-M    | 0 / 3031  | -38.5                     | -38.5                     | 0.65 (1)     | 10.00         |       |                           |              |
| M-L    | 0 / 3031  | -38.5                     | -38.5                     | 0.65 (1)     | 10.00         |       |                           |              |
| L-K    | 0 / 1725  | -38.5                     | -38.5                     | 0.46 (2)     | 10.00         |       |                           |              |
| K-J    | 0 / 0     | -38.5                     | -38.5                     | 0.23 (3)     | 10.00         |       |                           |              |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

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

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

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

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.87")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.15")  
ALLOWABLE DEFL. (TL) = L/360 (0.87")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.28")

CSI: TO=0.93/1.00 (F-G-1), BC=0.65/1.00 (L-N-1), WB=0.40/1.00 (B-C-1), SSI=0.31/1.00 (F-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

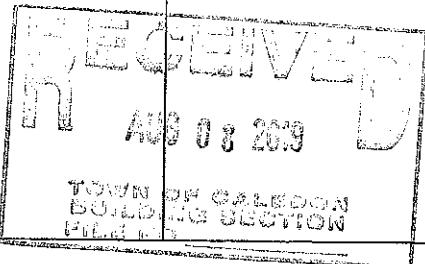
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

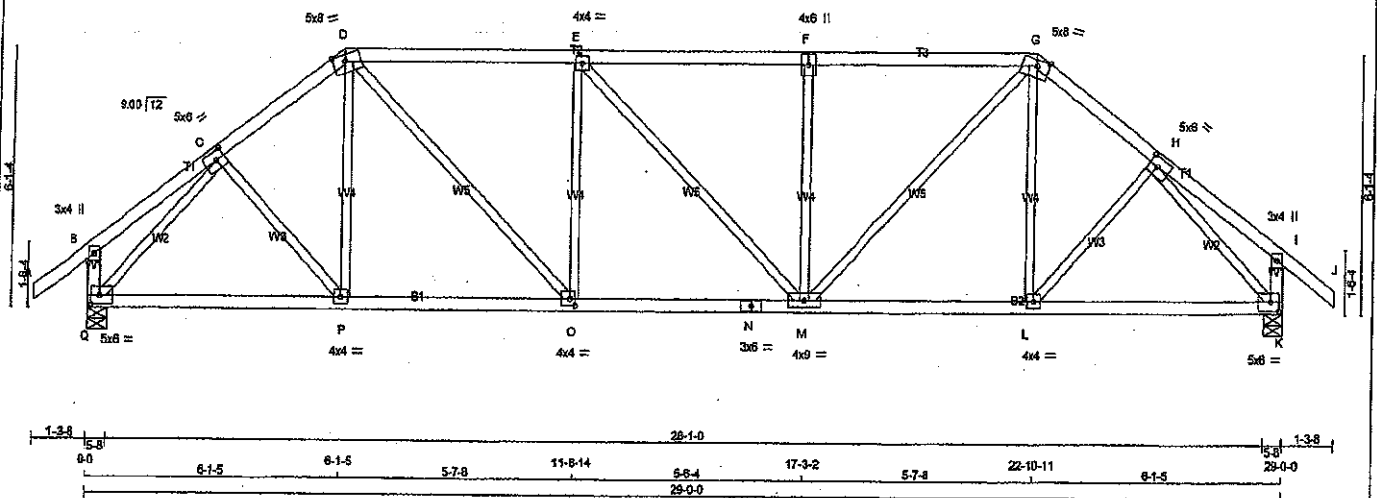
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)  
JSI METAL= 0.95 (M) (INPUT = 1.00)



DWG NO. TAM 17902709  
STRUCTURAL  
COMPONENT ONLY

|                                                                                                                                                                                                                    |                         |                      |                 |                                                                                                                                                                |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| JOB NAME<br><b>200444-401156</b>                                                                                                                                                                                   | TRUSS NAME<br><b>T3</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Preston 3</b>                                                                                                                                  | DRWG NO.<br><b>T3</b> |
| Tamarack Roof Truss, Burlington                                                                                                                                                                                    |                         |                      |                 | Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:07 2019 Page 1<br>ID:4xNdf4mUPYxd3LURX26ZQKyOFG0-8y0JpkyogTW4uNmoAhSyvd5EcK7gJdIdT87BWzo5IQ |                       |
| <div style="display: flex; justify-content: space-between;"> <span>1-3-8 0.0 3-1-15 3-1-15 2-11-7 6-1-5 5-7-8 11-8-14 5-8-4 17-3-2 22-10-11 2-11-7 25-10-1 29-0-0 30-3-8</span> <span>Scale = 1/80.0</span> </div> |                         |                      |                 |                                                                                                                                                                |                       |



|                       |     |     |      |     |                                                                                               |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
|-----------------------|-----|-----|------|-----|-----------------------------------------------------------------------------------------------|--|--|--|--|------------------|--|--|--|--|-----------------------|--|--|--|--|-------|--|--|--|--|-------|--|--|--|--|---------|--|--|--|--|-----------------------------------------------------|--|--|--|--|
| LUMBER                |     |     |      |     | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |  |  |  |  |                  |  |  |  |  | TOTAL WEIGHT = 127 lb |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| N. L. G. A. RULES     |     |     |      |     | BEARINGS                                                                                      |  |  |  |  |                  |  |  |  |  | DESIGN CRITERIA       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| CHORDS                |     |     |      |     |                                                                                               |  |  |  |  |                  |  |  |  |  | SPECIFIED LOADS:      |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| A - D                 | 2x4 | DRY | No.2 | SPF | FACTORED                                                                                      |  |  |  |  | MAXIMUM FACTORED |  |  |  |  | TOP CH. LL = 28.0 PSF |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| D - F                 | 2x4 | DRY | No.2 | SPF | GROSS REACTION                                                                                |  |  |  |  | GROSS REACTION   |  |  |  |  | DL = 6.0 PSF          |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| F - G                 | 2x4 | DRY | No.2 | SPF | VERT                                                                                          |  |  |  |  | DOWN             |  |  |  |  | BOT CH. LL = 10.5 PSF |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| G - J                 | 2x4 | DRY | No.2 | SPF | HORZ                                                                                          |  |  |  |  | HORZ             |  |  |  |  | DL = 7.0 PSF          |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| J - B                 | 2x4 | DRY | No.2 | SPF | Q                                                                                             |  |  |  |  | UPLIFT           |  |  |  |  | TOTAL LOAD = 52.5 PSF |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| K - I                 | 2x4 | DRY | No.2 | SPF | 2180 0                                                                                        |  |  |  |  | 2180 0 0         |  |  |  |  |                       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| Q - N                 | 2x4 | DRY | No.2 | SPF | 2180 0                                                                                        |  |  |  |  | 2180 0 0         |  |  |  |  |                       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| N - K                 | 2x4 | DRY | No.2 | SPF |                                                                                               |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| UNFACTORED REACTIONS  |     |     |      |     |                                                                                               |  |  |  |  |                  |  |  |  |  | SPACING = 24.0 IN./C  |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| 1ST LCASE             |     |     |      |     | MAX./MIN. COMPONENT REACTIONS                                                                 |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| JT COMBINED           |     |     |      |     | SNOW                                                                                          |  |  |  |  | LIVE             |  |  |  |  | PERM.LIVE             |  |  |  |  | WIND  |  |  |  |  | DEAD  |  |  |  |  | SOIL    |  |  |  |  |                                                     |  |  |  |  |
| Q                     |     |     |      |     | 1620                                                                                          |  |  |  |  | 922 / 0          |  |  |  |  | 305 / 0               |  |  |  |  | 0 / 0 |  |  |  |  | 0 / 0 |  |  |  |  | 394 / 0 |  |  |  |  | 0 / 0                                               |  |  |  |  |
| K                     |     |     |      |     | 1620                                                                                          |  |  |  |  | 922 / 0          |  |  |  |  | 305 / 0               |  |  |  |  | 0 / 0 |  |  |  |  | 0 / 0 |  |  |  |  | 394 / 0 |  |  |  |  | 0 / 0                                               |  |  |  |  |
| ALL WEBS              |     |     |      |     | 2x3                                                                                           |  |  |  |  | DRY              |  |  |  |  | No.2                  |  |  |  |  | SPF   |  |  |  |  |       |  |  |  |  |         |  |  |  |  | LOADING IN FLAT SECTION BASED ON A SLOPE OF 6,00/12 |  |  |  |  |
| EXCEPT                |     |     |      |     |                                                                                               |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |
| DRY: SEASONED LUMBER. |     |     |      |     |                                                                                               |  |  |  |  |                  |  |  |  |  |                       |  |  |  |  |       |  |  |  |  |       |  |  |  |  |         |  |  |  |  |                                                     |  |  |  |  |

| PLATES (table is in inches) |        |     |     |      |      |
|-----------------------------|--------|-----|-----|------|------|
| JT TYPE                     | PLATES | W   | LEN | Y    | X    |
| B TMV+P                     | MT20   | 3.0 | 4.0 |      |      |
| C TMVW+T                    | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| D TTWW-m                    | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| E TMVW+T                    | MT20   | 4.0 | 4.0 |      |      |
| F TSW+I                     | MT20   | 4.0 | 8.0 |      |      |
| G TTWW-m                    | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| H TMVW+T                    | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| I TMV+P                     | MT20   | 3.0 | 4.0 |      |      |
| K BMVW+T                    | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| L BMVW+T                    | MT20   | 4.0 | 4.0 |      |      |
| M BMVW+T                    | MT20   | 4.0 | 9.0 |      |      |
| N BS+I                      | MT20   | 3.0 | 6.0 |      |      |
| O BMVW+T                    | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| P BMVW+T                    | MT20   | 4.0 | 4.0 |      |      |
| Q BMVW+T                    | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |

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

TOP CHORD TO BE SHEATHED OR MAX PURLIN SPACING = 3.50 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL LEAD 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 CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX LC1 CSI (LC) |
| FR-TO  |                           | FROM                      |                  | FR-TO              |       |                           |                  |
| A-B    | 0 / 42                    | -102.1                    | -102.1 0.14 (1)  | 10.00              | C-P   | 0 / 212                   | 0.05 (2)         |
| B-C    | 0 / 18                    | -102.1                    | -102.1 0.12 (1)  | 10.00              | P-D   | 0 / 202                   | 0.05 (3)         |
| C-D    | -2175 / 0                 | -102.1                    | -102.1 0.18 (1)  | 4.46               | D-E   | 0 / 1157                  | 0.26 (1)         |
| D-E    | -2530 / 0                 | -102.1                    | -102.1 0.71 (1)  | 3.53               | Q-O   | -829 / 0                  | 0.37 (1)         |
| E-F    | -2464 / 0                 | -102.1                    | -102.1 0.70 (1)  | 3.58               | E-M   | -98 / 0                   | 0.13 (1)         |
| F-G    | -2464 / 0                 | -102.1                    | -102.1 0.74 (1)  | 3.50               | M-F   | -492 / 0                  | 0.29 (1)         |
| G-H    | -2175 / 0                 | -102.1                    | -102.1 0.18 (1)  | 4.46               | M-G   | 0 / 1063                  | 0.24 (1)         |
| H-I    | 0 / 18                    | -102.1                    | -102.1 0.12 (1)  | 10.00              | L-G   | 0 / 202                   | 0.05 (3)         |
| I-J    | 0 / 42                    | -102.1                    | -102.1 0.14 (1)  | 10.00              | L-H   | 0 / 212                   | 0.05 (2)         |
| Q-B    | -268 / 0                  | 0.0                       | 0.0 0.08 (1)     | 7.81               | Q-C   | -2413 / 0                 | 0.82 (1)         |
| K-I    | -268 / 0                  | 0.0                       | 0.0 0.03 (1)     | 7.81               | H-K   | -2413 / 0                 | 0.82 (1)         |
| Q-P    | 0 / 1589                  | -36.5                     | -36.5 0.46 (2)   | 10.00              |       |                           |                  |
| P-O    | 0 / 1723                  | -36.5                     | -36.5 0.49 (2)   | 10.00              |       |                           |                  |
| O-N    | 0 / 2530                  | -36.5                     | -36.5 0.51 (1)   | 10.00              |       |                           |                  |
| N-M    | 0 / 2530                  | -36.5                     | -36.5 0.51 (1)   | 10.00              |       |                           |                  |
| M-L    | 0 / 1723                  | -36.5                     | -36.5 0.49 (2)   | 10.00              |       |                           |                  |
| L-K    | 0 / 1589                  | -36.5                     | -36.5 0.46 (2)   | 10.00              |       |                           |                  |

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC9 2018  
- CSA 088-14  
- TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = 1/ 899 (0.11")  
ALLOWABLE DEFL.(TL) = L/380 (0.87")  
CALCULATED VERT. DEFL.(TL) = 1/ 899 (0.10")

CSI: TC=0.74H/00 (F-G-I), BC=0.51H/00 (M-O-I)  
WB=0.82H/00 (H-K-I), SS=0.28H/00 (D-E-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

| NAIL VALUES |           |             |               |
|-------------|-----------|-------------|---------------|
| PLATE       | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
| MAX         | MIN       | MAX         | MIN           |

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.50 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED | VERT. LOAD | LC1      | MAX   | WEBS        | MAX. FACTORED |
|--------|---------------|----------|------------|----------|-------|-------------|---------------|
| MEMB.  | FORCE (LBS)   | (PLF)    | CS1 (LC)   | MAX      | MEMB. | FORCE (LBS) | MAX           |
| FR-TO  |               |          |            |          | FR-TO |             |               |
| A-B    | 0/42          | -102.1   | -102.1     | 0.14 (1) | 10.00 | C-P         | 0/212         |
| B-C    | 0/18          | -102.1   | -102.1     | 0.12 (1) | 10.00 | P-D         | 0/202         |
| C-D    | -2175/0       | -102.1   | -102.1     | 0.18 (1) | 4.46  | D-O         | 0/1157        |
| D-E    | -2530/0       | -102.1   | -102.1     | 0.71 (1) | 3.53  | O-E         | -928/0        |
| E-F    | -2464/0       | -102.1   | -102.1     | 0.70 (1) | 3.58  | E-M         | -98/0         |
| F-G    | -2464/0       | -102.1   | -102.1     | 0.74 (1) | 3.50  | M-F         | -492/0        |
| G-H    | -2175/0       | -102.1   | -102.1     | 0.18 (1) | 4.46  | M-G         | 0/1063        |
| H-I    | 0/18          | -102.1   | -102.1     | 0.12 (1) | 10.00 | L-G         | 0/202         |
| I-J    | 0/42          | -102.1   | -102.1     | 0.14 (1) | 10.00 | L-H         | 0/212         |
| Q-B    | -288/0        | 0.0      | 0.0        | 0.08 (1) | 7.81  | Q-C         | -2413/0       |
| K-I    | -288/0        | 0.0      | 0.0        | 0.03 (1) | 7.81  | H-K         | -2413/0       |
| Q-P    | 0/1589        | -38.5    | -38.5      | 0.46 (2) | 10.00 |             |               |
| P-O    | 0/1723        | -38.5    | -38.5      | 0.49 (2) | 10.00 |             |               |
| O-N    | 0/2530        | -38.5    | -38.5      | 0.51 (1) | 10.00 |             |               |
| N-M    | 0/2530        | -38.5    | -38.5      | 0.51 (1) | 10.00 |             |               |
| M-L    | 0/1723        | -38.5    | -38.5      | 0.49 (2) | 10.00 |             |               |
| L-K    | 0/1589        | -38.5    | -38.5      | 0.46 (2) | 10.00 |             |               |

RECEIVED

AUG 08 2019

TOWN OF CALEDON

BUILDING DEPARTMENT

FILE NO.

LICENSED PROFESSIONAL ENGINEER

09/05/19

H. J. G. ALVES

100000024

PROVINCE OF ONTARIO

DRWG NO. TAM 7720 2710

STRUCTURAL

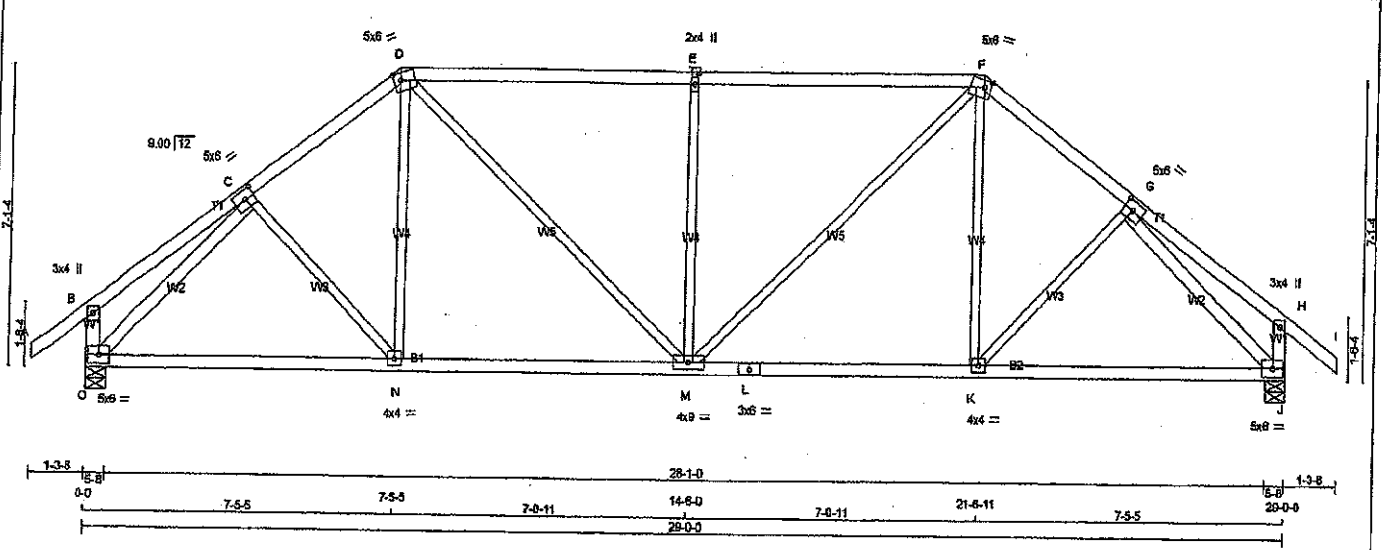
COMPONENT ONLY

|                           |                  |               |          |                        |             |                |
|---------------------------|------------------|---------------|----------|------------------------|-------------|----------------|
| JOB NAME<br>200444-401156 | TRUSS NAME<br>T4 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>Preston 3 | TRUSS DESC. | DRWG NO.<br>T4 |
|---------------------------|------------------|---------------|----------|------------------------|-------------|----------------|

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:05 2019 Page 1  
ID: 4xNdF4mUPyxd3LURX25ZQKyOFG0-d9a5c8laY\_bN12yzMICHU79FSewus7KS67Zjz05IP

Scale = 1:50.0



**LUMBER**  
N. L. G. A. RULES  
CHORDS SIZE LUMBER DESCR.  
A - D 2x4 DRY No.2 SPF  
D - F 2x4 DRY No.2 SPF  
F - I 2x4 DRY No.2 SPF  
O - H 2x4 DRY No.2 SPF  
J - L 2x4 DRY No.2 SPF  
L - J 2x4 DRY No.2 SPF  
ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT  
O - C 2x4 DRY No.2 SPF  
G - J 2x4 DRY No.2 SPF  
DRY: SEASONED LUMBER.

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                |                  |       |      |        |       |       |  |  |
|-----------------------------------------------------------------------------------------------|----------------|------------------|-------|------|--------|-------|-------|--|--|
| BEARINGS                                                                                      |                |                  |       |      |        |       |       |  |  |
|                                                                                               | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |        |       |       |  |  |
|                                                                                               | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |        |       |       |  |  |
| JT                                                                                            | VERT           | HORZ             | DOWN  | HORZ | UPLIFT | IN-SX | IN-SX |  |  |
| O                                                                                             | 2180           | 0                | 2180  | 0    | 0      | 5-8   | 5-8   |  |  |
| J                                                                                             | 2180           | 0                | 2180  | 0    | 0      | 5-8   | 5-8   |  |  |

| UNFACTORED REACTIONS |           |         |                     |           |       |         |       |  |  |
|----------------------|-----------|---------|---------------------|-----------|-------|---------|-------|--|--|
| JT                   | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS |           |       |         |       |  |  |
|                      | COMBINED  | SNOW    | LIVE                | PERM LIVE | WIND  | DEAD    | SOIL  |  |  |
| O                    | 1620      | 922 / 0 | 305 / 0             | 0 / 0     | 0 / 0 | 394 / 0 | 0 / 0 |  |  |
| J                    | 1620      | 922 / 0 | 305 / 0             | 0 / 0     | 0 / 0 | 394 / 0 | 0 / 0 |  |  |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.54 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS |               |                      |               |               |       |               |               |               |       |
|--------|---------------|----------------------|---------------|---------------|-------|---------------|---------------|---------------|-------|
| MEMB.  | MAX. FACTORED | FACTORED             | WEBS          | MAX. FACTORED | MEMB. | MAX. FACTORED | WEBS          | MAX. FACTORED | MEMB. |
|        | FORCE (LBS)   | VERT. LOAD LC1 (PLF) | MAX. CSI (LC) | UNBRAC        |       | FORCE (LBS)   | MAX. CSI (LC) |               |       |
| FR-TO  |               | FROM TO              |               | LENGTH        | FR-TO |               |               |               |       |
| A-B    | 0 / 42        | -102.1               | -102.1        | 0.14 (1)      | 10.00 | C-N           | 0 / 129       | 0.03 (3)      |       |
| B-C    | 0 / 25        | -102.1               | -102.1        | 0.21 (1)      | 10.00 | N-D           | 0 / 343       | 0.08 (2)      |       |
| C-D    | -2148 / 0     | -102.1               | -102.1        | 0.22 (1)      | 4.47  | D-M           | 0 / 807       | 0.18 (1)      |       |
| D-E    | -2276 / 0     | -102.1               | -102.1        | 0.77 (1)      | 3.54  | M-E           | -884 / 0      | 0.77 (1)      |       |
| E-F    | -2276 / 0     | -102.1               | -102.1        | 0.77 (1)      | 3.54  | M-F           | 0 / 807       | 0.18 (1)      |       |
| F-G    | -2148 / 0     | -102.1               | -102.1        | 0.22 (1)      | 4.47  | K-F           | 0 / 343       | 0.08 (2)      |       |
| G-H    | 0 / 25        | -102.1               | -102.1        | 0.21 (1)      | 10.00 | K-G           | 0 / 129       | 0.03 (3)      |       |
| H-I    | 0 / 42        | -102.1               | -102.1        | 0.14 (1)      | 10.00 | C-C           | -2427 / 0     | 0.83 (1)      |       |
| O-B    | -289 / 0      | 0.0                  | 0.0           | 0.03 (1)      | 7.81  | G-J           | -2427 / 0     | 0.83 (1)      |       |
| J-H    | -289 / 0      | 0.0                  | 0.0           | 0.03 (1)      | 7.81  |               |               |               |       |
| O-N    | 0 / 1655      | -38.5                | -38.5         | 0.61 (2)      | 10.00 |               |               |               |       |
| N-M    | 0 / 1695      | -38.5                | -38.5         | 0.62 (2)      | 10.00 |               |               |               |       |
| M-L    | 0 / 1695      | -38.5                | -38.5         | 0.62 (2)      | 10.00 |               |               |               |       |
| L-K    | 0 / 1695      | -38.5                | -38.5         | 0.62 (2)      | 10.00 |               |               |               |       |
| K-J    | 0 / 1655      | -38.5                | -38.5         | 0.61 (2)      | 10.00 |               |               |               |       |

**DESIGN CRITERIA**  
SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

**SPACING** = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2015  
- CSA 085-14  
- TPC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.77/1.00 (E-F:1), BC=0.62/1.00 (K-M:2), WB=0.83/1.00 (G-J:1), SS=0.35/1.00 (E-F: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 650 371 1747 788 1687 1873

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

JSI GRIP= 0.89 (G) (INPUT = 0.90)  
JSI METAL= 0.54 (C) (INPUT = 1.00)

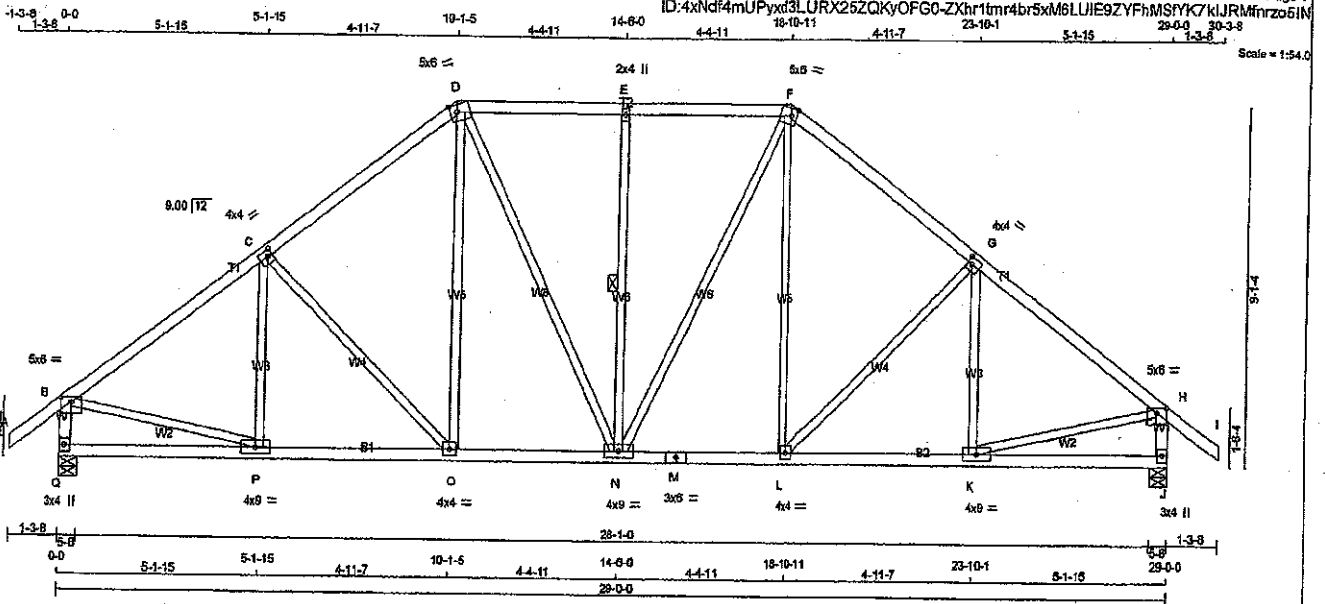


DRWG NO. TAM 1790 2711  
STRUCTURAL  
COMPONENT ONLY





|                                   |                         |                       |                 |                                                                                   |                       |
|-----------------------------------|-------------------------|-----------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------|
| JOB NAME<br><b>200444-401156*</b> | TRUSS NAME<br><b>T6</b> | QUANTITY<br><b>13</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Preston 3</b>                                                     | ORWG NO.<br><b>T6</b> |
| Tamarack Roof Truss, Burlington   |                         |                       |                 | Version 8.230 S Nov 17 2018 MITek Industries, Inc. Tue Feb 5 20:25:10 2019 Page 1 |                       |



TOTAL WEIGHT = 13 X 142 = 1842 lb

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |        |     |     |           |
|--------------------------|--------|-----|-----|-----------|
| JT TYPE                  | PLATES | W   | LEN | Y X       |
| B TMVW-p                 | MT20   | 5.0 | 6.0 | 1.50 3.00 |
| C TMVW-t                 | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| D TTWW-m                 | MT20   | 5.0 | 6.0 | Edge 2.00 |
| E TMVW-w                 | MT20   | 2.0 | 4.0 |           |
| F TTWW-m                 | MT20   | 5.0 | 6.0 | Edge 2.00 |
| G TMVW-t                 | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| H TMVW-p                 | MT20   | 5.0 | 6.0 | 1.50 3.00 |
| J BMV1-p                 | MT20   | 3.0 | 4.0 |           |
| K BMVW-t                 | MT20   | 4.0 | 9.0 |           |
| L BMVW-t                 | MT20   | 4.0 | 4.0 |           |
| M BS-t                   | MT20   | 3.0 | 6.0 |           |
| N BMVW-t                 | MT20   | 4.0 | 9.0 |           |
| O BMVW-t                 | MT20   | 4.0 | 4.0 |           |
| P BMVW-t                 | MT20   | 4.0 | 9.0 |           |
| Q BMV1-p                 | MT20   | 3.0 | 4.0 |           |

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

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

| FACTORED       |      | MAXIMUM FACTORED |       | INPUT  |       | REQD  |  |
|----------------|------|------------------|-------|--------|-------|-------|--|
| GROSS REACTION |      | GROSS REACTION   |       | BRG    |       | BRG   |  |
| JT             |      | DOWN             | HORIZ | UPLIFT | IN-SX | IN-SX |  |
| Q              | 2180 | 0                | 0     | 0      | 5-8   | 5-8   |  |
| J              | 2180 | 0                | 0     | 0      | 5-8   | 5-8   |  |

| UNFACTORED REACTIONS |                   | MAX/MIN COMPONENT REACTIONS |         |           |       |         |       |
|----------------------|-------------------|-----------------------------|---------|-----------|-------|---------|-------|
| JT                   | 1ST CASE COMBINED | SNOW                        | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
| Q                    | 1820              | 922 / 0                     | 305 / 0 | 0 / 0     | 0 / 0 | 384 / 0 | 0 / 0 |
| J                    | 1820              | 922 / 0                     | 305 / 0 | 0 / 0     | 0 / 0 | 384 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |          |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS1 (LC) |          |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |          |
| A-B    | 0 / 42                    | -102.1 -102.1             | 0.14 (1)               | 10.00 | P-C                       | -194 / 98              | 0.08 (1) |
| B-C    | -2198 / 0                 | -102.1 -102.1             | 0.42 (1)               | 4.21  | C-O                       | -384 / 0               | 0.38 (1) |
| C-D    | -1954 / 0                 | -102.1 -102.1             | 0.39 (1)               | 4.44  | O-D                       | 0 / 444                | 0.10 (2) |
| D-E    | -1709 / 0                 | -102.1 -102.1             | 0.28 (1)               | 4.82  | D-N                       | 0 / 389                | 0.08 (1) |
| E-F    | -1709 / 0                 | -102.1 -102.1             | 0.28 (1)               | 4.82  | N-E                       | -538 / 0               | 0.29 (1) |
| F-G    | -1854 / 0                 | -102.1 -102.1             | 0.38 (1)               | 4.44  | N-F                       | 0 / 389                | 0.08 (1) |
| G-H    | -2188 / 0                 | -102.1 -102.1             | 0.42 (1)               | 4.21  | L-F                       | 0 / 444                | 0.10 (2) |
| H-I    | 0 / 42                    | -102.1 -102.1             | 0.14 (1)               | 10.00 | L-G                       | -384 / 0               | 0.38 (1) |
| Q-B    | -2088 / 0                 | 0.0 0.0                   | 0.22 (1)               | 5.84  | K-G                       | -194 / 98              | 0.08 (1) |
| J-H    | -2088 / 0                 | 0.0 0.0                   | 0.22 (1)               | 5.84  | B-P                       | 0 / 1834               | 0.41 (1) |
|        |                           |                           |                        |       | K-H                       | 0 / 1834               | 0.41 (1) |
| Q-P    | 0 / 0                     | -38.5 -38.5               | 0.19 (3)               | 10.00 |                           |                        |          |
| P-O    | 0 / 1787                  | -38.5 -38.5               | 0.42 (2)               | 10.00 |                           |                        |          |
| O-N    | 0 / 1535                  | -38.5 -38.5               | 0.34 (1)               | 10.00 |                           |                        |          |
| N-M    | 0 / 1835                  | -38.5 -38.5               | 0.34 (1)               | 10.00 |                           |                        |          |
| M-L    | 0 / 1535                  | -38.5 -38.5               | 0.34 (1)               | 10.00 |                           |                        |          |
| L-K    | 0 / 1787                  | -38.5 -38.5               | 0.42 (2)               | 10.00 |                           |                        |          |
| K-J    | 0 / 0                     | -38.5 -38.5               | 0.19 (3)               | 10.00 |                           |                        |          |

### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN./C**

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CS1: TC=0.42/1.00 (G-H:1), BC=0.42/1.00 (K-L:2), WB=0.41/1.00 (H-K:1), SS=0.22/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

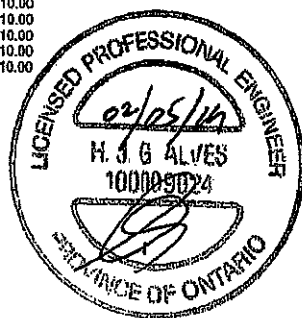
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1957 1656

PLATE PLACEMENT TOL = 0.250 inches

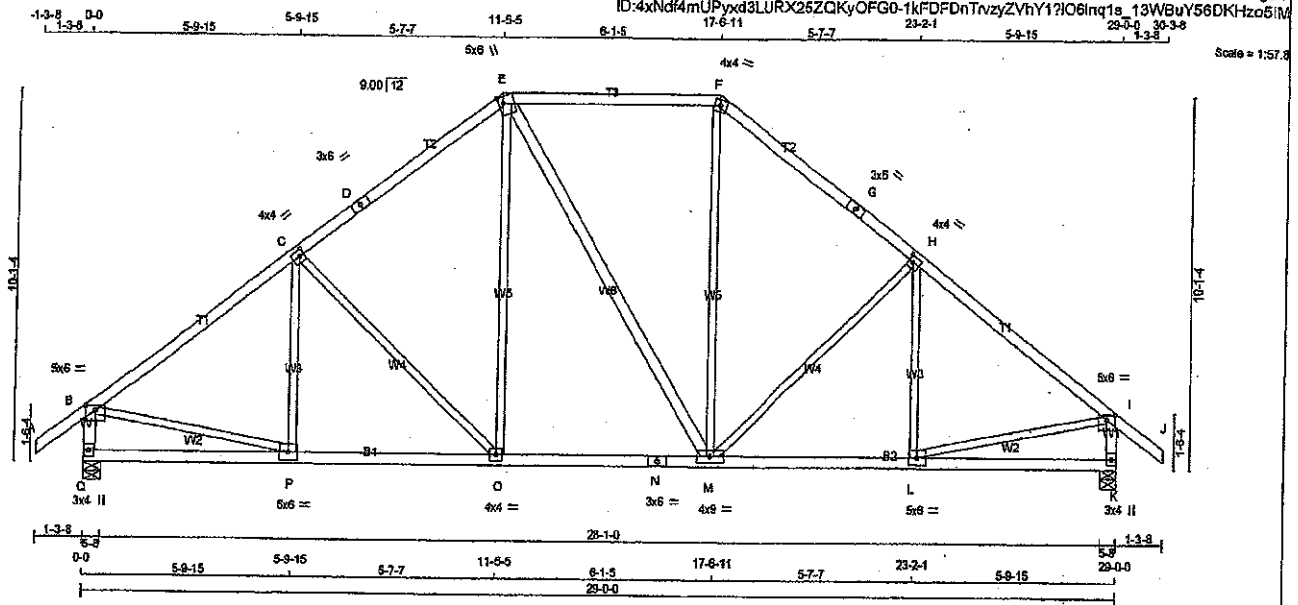
PLATE ROTATION TOL = 5.0 Deg.

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



DWG NO. TAM 17902713  
STRUCTURAL  
COMPONENT ONLY

|                                 |            |             |     |                                                                                   |          |
|---------------------------------|------------|-------------|-----|-----------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                         | DRWG NO. |
| 200444-401156                   | T7         | 1           | 1   | Preston 3                                                                         |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:28:11 2019 Page 1 |          |



TOTAL WEIGHT = 136 lb (M/F)

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

#### PLATES (table is in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMVW-p | MT20   | 5.0 | 6.0 | 1.50 | 3.00 |
| C TMVW-r | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D TS-t   | MT20   | 3.0 | 6.0 |      |      |
| E TTWV+m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| F TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| G TS-t   | MT20   | 3.0 | 6.0 |      |      |
| H TMVW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| I TMVW-p | MT20   | 5.0 | 6.0 | 1.50 | 3.00 |
| K BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| L BMVW-l | MT20   | 5.0 | 6.0 |      |      |
| M BMVW-w | MT20   | 4.0 | 9.0 |      |      |
| N BS-t   | MT20   | 3.0 | 8.0 |      |      |
| O BMVW-l | MT20   | 4.0 | 4.0 |      |      |
| P BMVW-l | MT20   | 5.0 | 8.0 |      |      |
| Q BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| Q        | 2180                    | 0                               | 2180      | 0        |
| K        | 2180                    | 0                               | 2180      | 0        |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS |
|-----------|----------|---------------------|
| JT        | COMBINED | SNOW                |
| Q         | 1620     | 922 / 0             |
| K         | 1620     | 922 / 0             |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.04 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 | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED HORIZ. LOAD (PLF) | MAX. FACTORED LENGTH (FT) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (PLF) |
|--------|-------|---------------------------|---------------------------|---------------------------------|---------------------------|-------|-------|---------------------------|---------------------------------|
| FR-TO  | A-B   | 0 / 42                    | -102.1                    | -102.1                          | 0.14 (1)                  | 10.00 | P-C   | -123 / 150                | 0.07 (1)                        |
|        | B-C   | -2209 / 0                 | -102.1                    | -102.1                          | 0.55 (1)                  | 4.04  | C-O   | -492 / 0                  | 0.85 (1)                        |
|        | C-D   | -1855 / 0                 | -102.1                    | -102.1                          | 0.50 (1)                  | 4.38  | O-E   | 0 / 571                   | 0.13 (2)                        |
|        | D-E   | -1855 / 0                 | -102.1                    | -102.1                          | 0.52 (1)                  | 4.75  | E-M   | 0 / 1                     | 0.00 (2)                        |
|        | E-F   | -1454 / 0                 | -102.1                    | -102.1                          | 0.50 (1)                  | 4.38  | M-F   | 0 / 573                   | 0.13 (2)                        |
|        | F-G   | -1856 / 0                 | -102.1                    | -102.1                          | 0.50 (1)                  | 4.38  | M-H   | -491 / 0                  | 0.85 (1)                        |
|        | G-H   | -1856 / 0                 | -102.1                    | -102.1                          | 0.50 (1)                  | 4.38  | H-I   | -123 / 149                | 0.07 (1)                        |
|        | H-I   | -2209 / 0                 | -102.1                    | -102.1                          | 0.55 (1)                  | 4.04  | I-J   | 0 / 1638                  | 0.41 (1)                        |
|        | I-J   | 0 / 42                    | -102.1                    | -102.1                          | 0.14 (1)                  | 10.00 | L-I   | 0 / 1638                  | 0.41 (1)                        |
|        | Q-B   | -2088 / 0                 | 0.0                       | 0.0                             | 0.22 (1)                  | 5.86  |       |                           |                                 |
|        | K-I   | -2087 / 0                 | 0.0                       | 0.0                             | 0.22 (1)                  | 5.86  |       |                           |                                 |
|        | Q-P   | 0 / 0                     | -38.5                     | -38.5                           | 0.24 (3)                  | 10.00 |       |                           |                                 |
|        | P-O   | 0 / 1801                  | -38.5                     | -38.5                           | 0.46 (2)                  | 10.00 |       |                           |                                 |
|        | O-N   | 0 / 1453                  | -38.5                     | -38.5                           | 0.39 (2)                  | 10.00 |       |                           |                                 |
|        | N-M   | 0 / 1453                  | -38.5                     | -38.5                           | 0.39 (2)                  | 10.00 |       |                           |                                 |
|        | M-L   | 0 / 1800                  | -38.5                     | -38.5                           | 0.46 (2)                  | 10.00 |       |                           |                                 |
|        | L-K   | 0 / 0                     | -38.5                     | -38.5                           | 0.23 (3)                  | 10.00 |       |                           |                                 |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2015  
- CSA 086-14  
- TPIC 2014

(55 % OF 37.6 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.97")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")  
ALLOWABLE DEFL. (TL) = L/360 (0.97")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.14")  
CSI: TC=0.55/1.00 (B-C-1), BC=0.46/1.00 (O-P-2), WB=0.65/1.00 (C-O-1), SS=0.24/1.00 (E-F-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

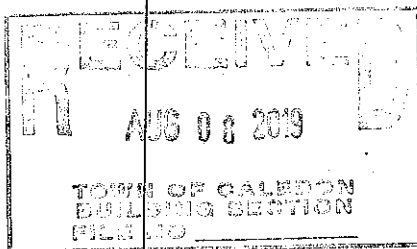
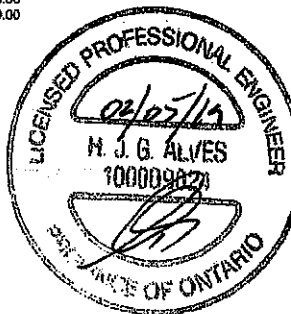
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

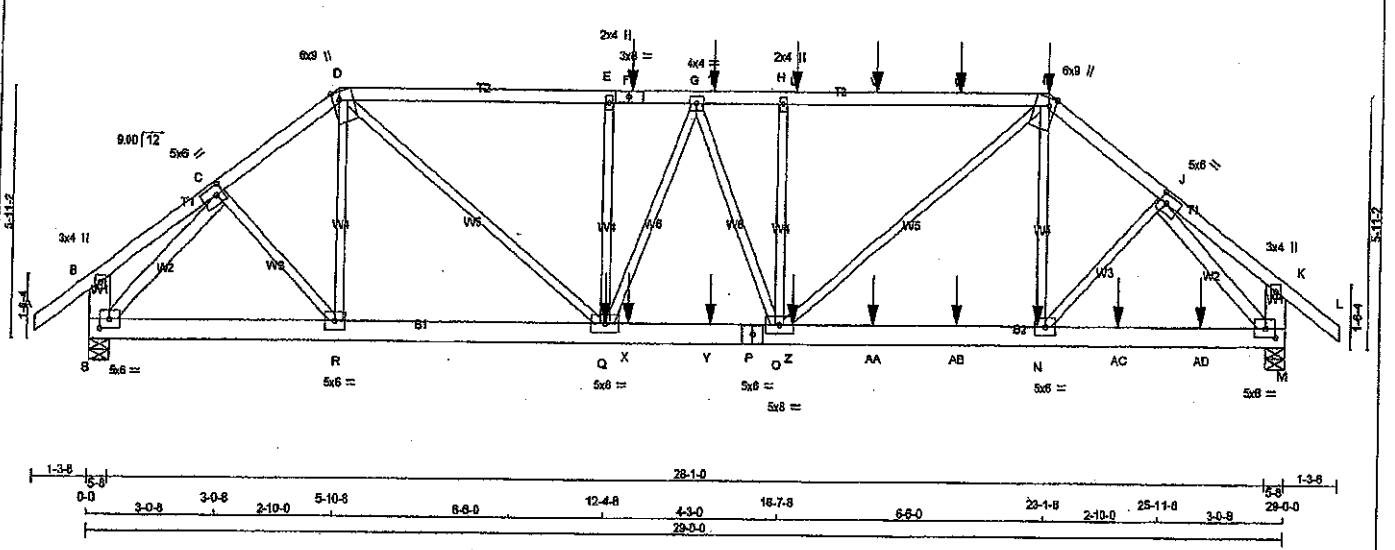
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (F) (INPUT = 0.90)  
JSI METAL= 0.48 (N) (INPUT = 1.00)



DWG NO. TAM 17902714  
STRUCTURAL  
COMPONENT ONLY

Tamarack Roof Truss, Burlington Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:28:12 2019 Page 1  
 ID: 4xNd4mUPyx3LURX2S2QKyOFG0-VwpcSzo5cD5pBfGkbJHdfzKqFL9o\_L2mimmskzo5IL  
 Scale = 1:50.0



TOTAL WEIGHT = 2 X 151 = 302 lb

**LUMBER**

| CHORDS          | SIZE | DRY | NO.2 | DESCR. |
|-----------------|------|-----|------|--------|
| A - D           | 2x4  | DRY | No.2 | SPF    |
| D - F           | 2x4  | DRY | No.2 | SPF    |
| F - I           | 2x4  | DRY | No.2 | SPF    |
| I - L           | 2x4  | DRY | No.2 | SPF    |
| S - B           | 2x6  | DRY | No.2 | SPF    |
| M - K           | 2x6  | DRY | No.2 | SPF    |
| S - P           | 2x8  | DRY | No.2 | SPF    |
| P - M           | 2x8  | DRY | No.2 | SPF    |
| ALL WEBS EXCEPT | 2x3  | DRY | No.2 | SPF    |
| S - C           | 2x4  | DRY | No.2 | SPF    |
| J - M           | 2x4  | DRY | No.2 | SPF    |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD(PLF)   |
|-----------------------------------------|----------------------|-------------|
| TOP CHORDS: (0.122'X3') SPIRAL NAILS    |                      |             |
| A-D                                     | 12                   | TOP         |
| D-F                                     | 12                   | SIDE(61.0)  |
| F-I                                     | 12                   | SIDE(61.0)  |
| I-L                                     | 12                   | SIDE(61.0)  |
| S-B                                     | 12                   | TOP         |
| M-K                                     | 12                   | TOP         |
| BOTTOM CHORDS: (0.122'X3') SPIRAL NAILS |                      |             |
| S-P                                     | 12                   | SIDE(183.1) |
| P-M                                     | 12                   | SIDE(183.1) |
| WEBS: (0.122'X3') SPIRAL NAILS          |                      |             |
| W-I                                     | 6                    | SIDE(217.3) |
| E-Q                                     | 6                    | SIDE(203.2) |
| 2x3                                     | 6                    |             |
| 2x4                                     | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.  
 GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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

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

**PLATES (table is in inches)**

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C TMVWV+m | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| D TMVWV+m | MT20   | 5.0 | 6.0 | Edge | 2.00 |
| E TMVWV+m | MT20   | 2.0 | 4.0 |      |      |
| F TS-I    | MT20   | 3.0 | 8.0 |      |      |
| G TMVWV+m | MT20   | 4.0 | 4.0 |      |      |
| H TMVWV+m | MT20   | 2.0 | 4.0 |      |      |
| J TMVWV+m | MT20   | 6.0 | 9.0 | Edge | 2.00 |
| K TMVWV+m | MT20   | 5.0 | 6.0 |      |      |
| L BMVWV+m | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| N BMVWV+m | MT20   | 5.0 | 6.0 |      |      |
| O BMVWV+m | MT20   | 5.0 | 6.0 |      |      |
| P BS-I    | MT20   | 5.0 | 6.0 |      |      |

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

**BEARINGS**

|         | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|---------|-------------------------|---------------------------------|-----------|----------|
| JT VERT | 4521                    | 4521                            | 0         | 5-8      |
| M       | 0                       | 0                               | 0         | 5-8      |
| S       | 3690                    | 3690                            | 0         | 5-8      |

**UNFACTORED REACTIONS**

|             | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|-------------|----------|-------------------------------|
| JT COMBINED | 1947 / 0 | 595 / 0                       |
| M           | 2743     | 514 / 0                       |
| S           | 1582 / 0 | 0 / 0                         |

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

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |  |
| A-B    | 0 / 42                    | -102.1 -102.1             | 0.08 (1)               | R-D   | -137 / 106                | 0.04 (1)               |  |
| B-C    | 0 / 15                    | -102.1 -102.1             | 0.08 (1)               | D-Q   | 0 / 3500                  | 0.43 (1)               |  |
| C-D    | -4239 / 0                 | -102.1 -102.1             | 0.12 (1)               | O-I   | 0 / 2289                  | 0.28 (1)               |  |
| D-E    | -8031 / 0                 | -102.1 -102.1             | 0.59 (1)               | N-I   | -120 / 302                | 0.04 (3)               |  |
| E-F    | -8031 / 0                 | -102.1 -102.1             | 0.42 (1)               | Q-E   | -823 / 0                  | 0.21 (1)               |  |
| F-G    | -8031 / 0                 | -102.1 -102.1             | 0.42 (1)               | O-H   | -1137 / 0                 | 0.30 (1)               |  |
| G-T    | -5944 / 0                 | -102.1 -102.1             | 0.59 (1)               | Q-G   | 0 / 281                   | 0.03 (1)               |  |
| T-H    | -5944 / 0                 | -102.1 -102.1             | 0.59 (1)               | S-C   | -85 / 16                  | 0.03 (3)               |  |
| H-U    | -5943 / 0                 | -102.1 -102.1             | 0.81 (1)               | C-R   | -4461 / 0                 | 0.48 (1)               |  |
| U-V    | -5943 / 0                 | -102.1 -102.1             | 0.81 (1)               | N-I   | 0 / 3500                  | 0.43 (1)               |  |
| V-W    | -5943 / 0                 | -102.1 -102.1             | 0.81 (1)               |       |                           |                        |  |
| W-I    | -5943 / 0                 | -102.1 -102.1             | 0.81 (1)               |       |                           |                        |  |
| F-J    | -5265 / 0                 | -102.1 -102.1             | 0.16 (1)               |       |                           |                        |  |
| J-K    | -1 / 13                   | -102.1 -102.1             | 0.08 (1)               |       |                           |                        |  |
| K-L    | 0 / 42                    | -102.1 -102.1             | 0.08 (1)               |       |                           |                        |  |
| S-B    | -285 / 0                  | 0.0                       | 0.01 (1)               |       |                           |                        |  |
| M-K    | -289 / 0                  | 0.0                       | 0.01 (1)               |       |                           |                        |  |
| R-R    | 0 / 2955                  | -38.5 -38.5               | 0.28 (1)               |       |                           |                        |  |
| R-Q    | 0 / 3397                  | -38.5 -38.5               | 0.28 (1)               |       |                           |                        |  |
| Q-X    | 0 / 5938                  | -38.5 -38.5               | 0.44 (1)               |       |                           |                        |  |
| X-Y    | 0 / 5938                  | -38.5 -38.5               | 0.44 (1)               |       |                           |                        |  |
| Y-P    | 0 / 5938                  | -38.5 -38.5               | 0.44 (1)               |       |                           |                        |  |
| P-O    | 0 / 5938                  | -38.5 -38.5               | 0.44 (1)               |       |                           |                        |  |
| O-Z    | 0 / 4201                  | -38.5 -38.5               | 0.36 (1)               |       |                           |                        |  |
| Z-AA   | 0 / 4201                  | -38.5 -38.5               | 0.36 (1)               |       |                           |                        |  |
| AA-AB  | 0 / 4201                  | -38.5 -38.5               | 0.36 (1)               |       |                           |                        |  |
| AB-N   | 0 / 4201                  | -38.5 -38.5               | 0.36 (1)               |       |                           |                        |  |
| N-AC   | 0 / 3645                  | -38.5 -38.5               | 0.32 (1)               |       |                           |                        |  |
| AC-AD  | 0 / 3645                  | -38.5 -38.5               | 0.32 (1)               |       |                           |                        |  |
| AD-M   | 0 / 3645                  | -38.5 -38.5               | 0.32 (1)               |       |                           |                        |  |

02/05/19

H. J. G. ALVES

100009024

PROVINCE OF ONTARIO

DWG NO. TAM 171027

STRUCTURAL

COMPONENT ONLY

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX.  | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|-------|------|-------|------|-------|
| I  | 12-11-4 | -123  | -123  | FRONT | VERT | TOTAL |      |       |
| I  | 23-1-8  | -75   | -75   | FRONT | VERT | DEAD  |      |       |
| I  | 23-1-8  | -788  | -788  | FRONT | VERT | TOTAL |      |       |
| J  | 23-1-8  | -428  | -428  | FRONT | VERT | TOTAL |      |       |
| N  | 22-11-4 | -57   | -73   | FRONT | VERT | TOTAL |      |       |
| Q  | 12-4-8  | -1481 | -1481 | FRONT | VERT | TOTAL |      |       |

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

**SPECIFIED LOADS:**  
 TOP CH. LL = 29.0 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

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

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

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2015  
 - CSA 086-14  
 - TPC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.11")  
 ALLOWABLE DEFL.(TL) = L/360 (0.97")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.81/1.00 (H-I), BC=0.44/1.00 (O-Q),  
 WB=0.60/1.00 (J-M), SS=0.29/1.00 (H-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

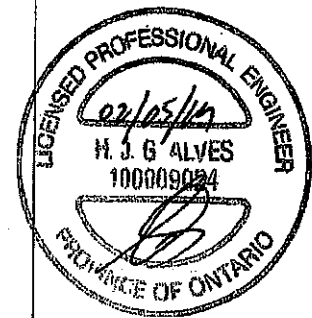
PLATE PLACEMENT TOL. = 0.250 inches  
 PLATE ROTATION TOL. = 5.0 Deg.  
 JSI GRIP= 0.69 (Q) (INPUT = 0.90)  
 JSI METAL= 0.62 (J) (INPUT = 1.00)

|                           |                  |               |          |                        |             |                |
|---------------------------|------------------|---------------|----------|------------------------|-------------|----------------|
| JOB NAME<br>200444-401156 | TRUSS NAME<br>T8 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>Preston 3 | TRUSS DESC. | DRWG NO.<br>T8 |
|---------------------------|------------------|---------------|----------|------------------------|-------------|----------------|

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Witek Industries, Inc. Tue Feb 6 20:29:12 2019 Page 2  
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| PLATES (table is in inches)                                       |         |        |     |     |      |      | FACTORED CONCENTRATED LOADS (LBS) |         |      |      |      |       |      |       |      |       |
|-------------------------------------------------------------------|---------|--------|-----|-----|------|------|-----------------------------------|---------|------|------|------|-------|------|-------|------|-------|
| JT                                                                | TYPE    | PLATES | W   | LEN | Y    | X    | JT                                | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| Q                                                                 | BMWW-t  | MT20   | 5.0 | 6.0 |      |      | T                                 | 14-11-4 | -123 | -123 | --   | FRONT | VERT | TOTAL | --   | --    |
| R                                                                 | BMWW-t  | MT20   | 5.0 | 6.0 |      |      | U                                 | 18-11-4 | -123 | -123 | --   | FRONT | VERT | TOTAL | --   | --    |
| S                                                                 | BMVW1-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 | V                                 | 18-11-4 | -123 | -123 | --   | FRONT | VERT | TOTAL | --   | --    |
| Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. |         |        |     |     |      |      | W                                 | 20-11-4 | -123 | -123 | --   | FRONT | VERT | TOTAL | --   | --    |
|                                                                   |         |        |     |     |      |      | X                                 | 12-11-4 | -57  | -73  | --   | FRONT | VERT | TOTAL | --   | --    |
|                                                                   |         |        |     |     |      |      | Y                                 | 14-11-4 | -57  | -73  | --   | FRONT | VERT | TOTAL | --   | --    |
|                                                                   |         |        |     |     |      |      | Z                                 | 16-11-4 | -57  | -73  | --   | FRONT | VERT | TOTAL | --   | --    |
|                                                                   |         |        |     |     |      |      | AA                                | 18-11-4 | -57  | -73  | --   | FRONT | VERT | TOTAL | --   | --    |
|                                                                   |         |        |     |     |      |      | AB                                | 20-11-4 | -57  | -73  | --   | FRONT | VERT | TOTAL | --   | --    |
|                                                                   |         |        |     |     |      |      | AC                                | 24-11-4 | -57  | -73  | --   | FRONT | VERT | TOTAL | --   | --    |
|                                                                   |         |        |     |     |      |      | AD                                | 26-11-4 | -57  | -73  | --   | FRONT | VERT | TOTAL | --   | --    |



DWG NO. TAM 71902715  
 STRUCTURAL  
 COMPONENT ONLY 2/2

|                                  |                         |                      |                 |                               |             |          |           |
|----------------------------------|-------------------------|----------------------|-----------------|-------------------------------|-------------|----------|-----------|
| JOB NAME<br><b>200444-401156</b> | TRUSS NAME<br><b>T9</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Preston 3</b> | TRUSS DESC. | DRWG NO. | <b>T9</b> |
|----------------------------------|-------------------------|----------------------|-----------------|-------------------------------|-------------|----------|-----------|

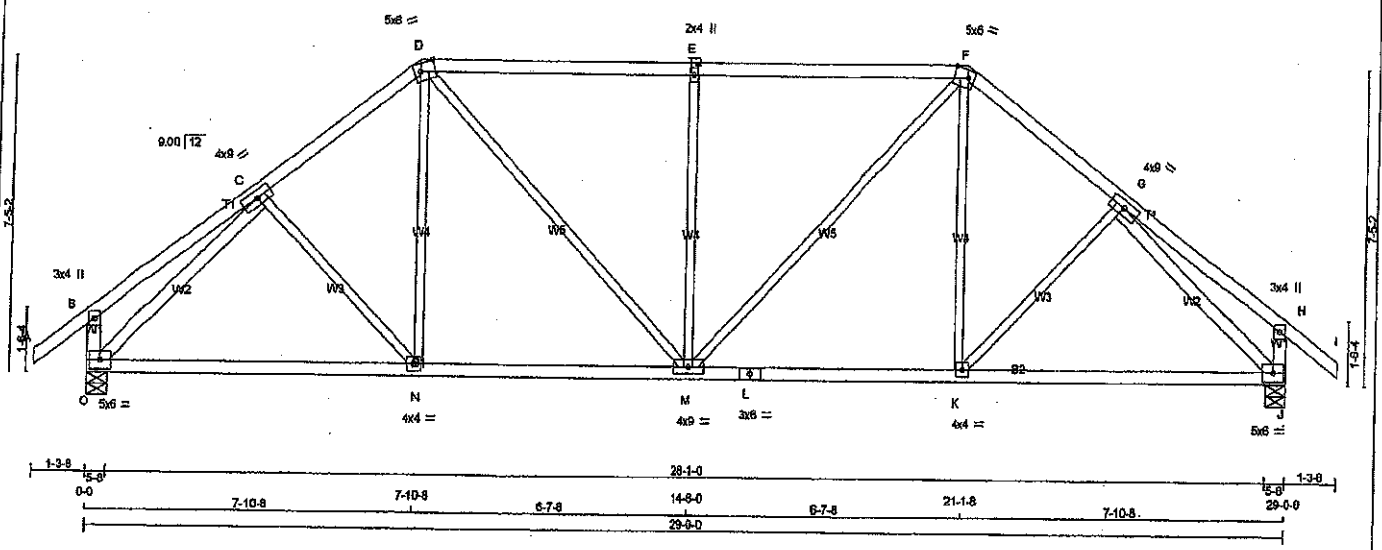
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:12 2018 Page 1

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1-3-8 0-0 4-0-8 4-0-8 3-10-0 7-10-8 6-7-8 14-8-0 6-7-8 21-1-8 3-10-0 24-11-8 4-0-8 29-0-0 30-3-8

Scale = 1:50.0



**LUMBER**

N. L. G. A. RULES

CHORDS SIZE LUMBER DESCR.

A - D 2x4 DRY No.2 SPF

B - F 2x4 DRY No.2 SPF

C - I 2x4 DRY No.2 SPF

J - H 2x4 DRY No.2 SPF

O - L 2x4 DRY No.2 SPF

L - J 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

O - C 2x4 DRY No.2 SPF

G - J 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER

TOTAL WEIGHT = 130 lb

| 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   |       |
|                                                                                               |   | VERT           | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX | IN-SX |
| JT                                                                                            | O | 2180           | 0    | 2180             | 0    | 0      | 5-8   | 5-8   | 5-8   |
| J                                                                                             | J | 2180           | 0    | 2180             | 0    | 0      | 5-8   | 5-8   | 5-8   |

**UNFACTORED REACTIONS**

1ST CASE

|    |   | MAX. MIN. COMPONENT REACTIONS |         |            |       |       |         |       |       |
|----|---|-------------------------------|---------|------------|-------|-------|---------|-------|-------|
|    |   | SNOW                          | LIVE    | PERM. LIVE | WIND  | DEAD  | SOIL    |       |       |
| JT | O | 1620                          | 922 / 0 | 305 / 0    | 0 / 0 | 0 / 0 | 394 / 0 | 0 / 0 | 0 / 0 |
| J  | J | 1620                          | 922 / 0 | 305 / 0    | 0 / 0 | 0 / 0 | 394 / 0 | 0 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 FT.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |           |               |  |                        |  |              |  |                    |  |
|--------|-----------|---------------|--|------------------------|--|--------------|--|--------------------|--|
|        |           | MAX. FACTORED |  | FACTORED               |  | WEBS         |  | MAX. FACTORED      |  |
|        |           | FORCE         |  | VERT. LOAD LC1         |  | MEMB.        |  | FORCE              |  |
|        |           | (LBS)         |  | (PLF)                  |  | MAX. UNBRAC  |  | (LBS)              |  |
|        |           |               |  | CS1 (LC)               |  | LENGTH FR-TO |  | CS1 (LC)           |  |
| FR-TO  |           |               |  |                        |  |              |  |                    |  |
| A-B    | 0 / 42    |               |  | -102.1 -102.1 0.14 (1) |  | 10.00 C-N    |  | 0 / 116 0.03 (3)   |  |
| B-C    | 0 / 27    |               |  | -102.1 -102.1 0.24 (1) |  | 10.00 N-D    |  | 0 / 379 0.09 (2)   |  |
| C-D    | -2123 / 0 |               |  | -102.1 -102.1 0.25 (1) |  | 4.46 D-M     |  | 0 / 704 0.16 (1)   |  |
| D-E    | -2158 / 0 |               |  | -102.1 -102.1 0.88 (1) |  | 3.63 M-E     |  | -829 / 0 0.82 (1)  |  |
| E-F    | -2158 / 0 |               |  | -102.1 -102.1 0.88 (1) |  | 3.63 M-F     |  | 0 / 704 0.16 (1)   |  |
| F-G    | -2123 / 0 |               |  | -102.1 -102.1 0.25 (1) |  | 4.46 K-F     |  | 0 / 379 0.09 (2)   |  |
| G-H    | 0 / 27    |               |  | -102.1 -102.1 0.24 (1) |  | 10.00 K-G    |  | 0 / 116 0.03 (3)   |  |
| H-I    | 0 / 42    |               |  | -102.1 -102.1 0.14 (1) |  | 10.00 O-C    |  | -2425 / 0 0.93 (1) |  |
| O-B    | -286 / 0  |               |  | 0.0 0.0 0.03 (1)       |  | 7.81 G-J     |  | -2425 / 0 0.93 (1) |  |
| J-H    | -286 / 0  |               |  | 0.0 0.0 0.03 (1)       |  | 7.81         |  |                    |  |
| O-N    | 0 / 1668  |               |  | -38.5 -38.5 0.84 (2)   |  | 10.00        |  |                    |  |
| N-M    | 0 / 1678  |               |  | -38.5 -38.5 0.85 (2)   |  | 10.00        |  |                    |  |
| M-L    | 0 / 1678  |               |  | -38.5 -38.5 0.85 (2)   |  | 10.00        |  |                    |  |
| L-K    | 0 / 1678  |               |  | -38.5 -38.5 0.85 (2)   |  | 10.00        |  |                    |  |
| K-J    | 0 / 1668  |               |  | -38.5 -38.5 0.84 (2)   |  | 10.00        |  |                    |  |

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

**DESIGN CRITERIA**

SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015
- CSA 086-14
- TPC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.97")

CALCULATED VERT. DEFL. (LL) = 1/999 (0.16")

ALLOWABLE DEFL. (TL) = L/360 (0.97")

CALCULATED VERT. DEFL. (TL) = 1/999 (0.27")

CS1: TC=0.68/1.00 (D-E:1), SC=0.65/1.00 (M-N:2), WB=0.93/1.00 (C-O:1), SS=0.33/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION

(PS) (PL) (PLI)

MAX MIN MAX MIN MAX MIN

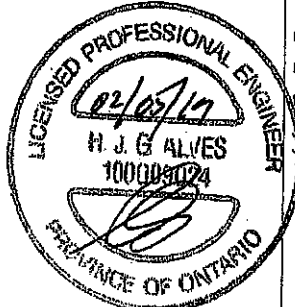
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP= 0.90 (C) (INPUT = 0.80)

SI METAL= 0.55 (L) (INPUT = 1.00)



DWG NO. TAM 17902716

STRUCTURAL

COMPONENT ONLY

**JOB NAME**: Tamarack Roof Truss, Burlington  
**TRUSS NAME**: T10  
**QUANTITY**: 1  
**PLY**: 1  
**JOB DESC.**: Preston 3  
**DRWG NO.**:  
**T10**

Version 8.230 S Nov 17 2016 © Tek Industries, Inc. Tue Feb 5 20:28:13 2019 Page 1  
ID:4xNdf4mUPyxd3LURX26ZQKyOFG0-z6N\_fvjNWDgoprw9QosBAsCxfhQXUTB7PbkAOzo5IK  
Scale = 1:52

**LUMBER**

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

NOTE: SEASONED LUMBER.

**PLATES (table is in inches)**

| TYPE     | W    | LEN | Y   | X    |      |
|----------|------|-----|-----|------|------|
| TMVW-p   | MT20 | 5.0 | 6.0 | 1.50 | 3.00 |
| TMVW-l   | MT20 | 4.0 | 4.0 | 2.00 | 1.50 |
| TTWW-m   | MT20 | 5.0 | 6.0 | 2.25 | 1.50 |
| TMVW-w   | MT20 | 2.0 | 4.0 |      |      |
| TTWW-m   | MT20 | 5.0 | 6.0 | 2.25 | 1.50 |
| TMVW-l   | MT20 | 4.0 | 4.0 | 2.00 | 1.50 |
| BMV1+p   | MT20 | 3.0 | 4.0 |      |      |
| BMVW-l   | MT20 | 5.0 | 6.0 |      |      |
| BMVW-l   | MT20 | 4.0 | 4.0 |      |      |
| BS-1     | MT20 | 3.0 | 6.0 |      |      |
| BMVWVH-l | MT20 | 4.0 | 9.0 |      |      |
| BMVW-l   | MT20 | 4.0 | 4.0 |      |      |
| BMVW-l   | MT20 | 5.0 | 6.0 |      |      |
| BMV1+p   | MT20 | 3.0 | 4.0 |      |      |

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

**BEARINGS**

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SK | IN-SX |
|----|------|------|------|------|--------|-------|-------|
| Q  | 2180 | 0    | 2180 | 0    | 0      | 5-8   | 5-8   |
| J  | 2180 | 0    | 2180 | 0    | 0      | 5-8   | 5-8   |

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW    | LIVE    | PERM LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|---------|-----------|-------|---------|-------|
| Q  | 1620     | 922 / 0 | 305 / 0 | 0 / 0     | 0 / 0 | 384 / 0 | 0 / 0 |
| J  | 1620     | 922 / 0 | 305 / 0 | 0 / 0     | 0 / 0 | 384 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 4.24 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

**LOADING**

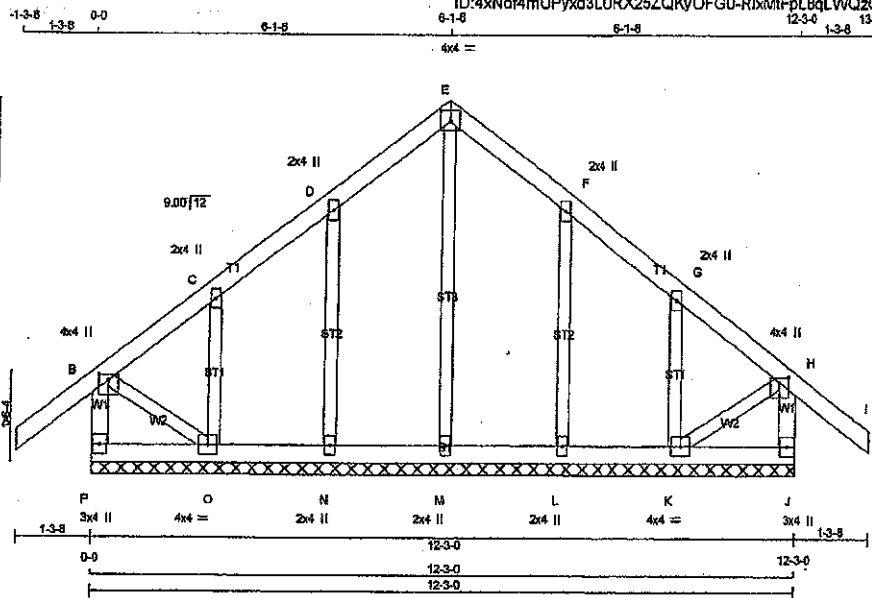
TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS                 |       |                           |               |          |
|--------|---------------------------|---------------------------|---------------|----------------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           |                           |               |                      | FR-TO |                           |               |          |
| A-B    | 0 / 42                    | -102.1                    | -102.1        | 0.14 (1)             | 10.00 | P-C                       | -209 / 85     | 0.09 (1) |
| B-C    | -2184 / 0                 | -102.1                    | -102.1        | 0.40 (1)             | 4.24  | C-O                       | -339 / 0      | 0.32 (1) |
| C-D    | -1971 / 0                 | -102.1                    | -102.1        | 0.38 (1)             | 4.44  | O-D                       | 0 / 432       | 0.10 (2) |
| D-E    | -1748 / 0                 | -102.1                    | -102.1        | 0.31 (1)             | 4.74  | D-N                       | 0 / 420       | 0.09 (1) |
| E-F    | -1748 / 0                 | -102.1                    | -102.1        | 0.31 (1)             | 4.74  | N-E                       | -589 / 0      | 0.28 (1) |
| F-G    | -1971 / 0                 | -102.1                    | -102.1        | 0.38 (1)             | 4.44  | N-F                       | 0 / 420       | 0.09 (1) |
| G-H    | -2184 / 0                 | -102.1                    | -102.1        | 0.40 (1)             | 4.24  | L-F                       | 0 / 431       | 0.10 (2) |
| H-I    | 0 / 42                    | -102.1                    | -102.1        | 0.14 (1)             | 10.00 | L-G                       | -339 / 0      | 0.32 (1) |
| Q-B    | -2099 / 0                 | 0.0                       | 0.0           | 0.22 (1)             | 5.84  | K-G                       | -209 / 85     | 0.09 (1) |
| J-H    | -2099 / 0                 | 0.0                       | 0.0           | 0.22 (1)             | 5.84  | B-P                       | 0 / 1833      | 0.41 (1) |
|        |                           |                           |               |                      |       | K-H                       | 0 / 1833      | 0.41 (1) |
| Q-P    | 0 / 0                     | -38.5                     | -38.5         | 0.18 (3)             | 10.00 |                           |               |          |
| P-O    | -0 / 1783                 | -38.5                     | -38.5         | 0.40 (2)             | 10.00 |                           |               |          |
| O-N    | 0 / 1550                  | -38.5                     | -38.5         | 0.34 (1)             | 10.00 |                           |               |          |
| N-M    | 0 / 1550                  | -38.5                     | -38.5         | 0.34 (1)             | 10.00 |                           |               |          |





|                                 |                    |               |          |                        |                  |
|---------------------------------|--------------------|---------------|----------|------------------------|------------------|
| JOB NAME<br>200444-401156       | TRUSS NAME<br>T11G | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>Preston 3 | DRWG NO.<br>T11G |
| Tamarack Roof Truss, Burlington |                    |               |          | TRUSS DESC.            |                  |



Scale = 1/32"

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

| PLATES (table is in inches) |        |     |     |           |
|-----------------------------|--------|-----|-----|-----------|
| JT TYPE                     | PLATES | W   | LEN | Y X       |
| B TMVW+p                    | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| C, D, F, G                  |        |     |     |           |
| C TMVW+p                    | MT20   | 2.0 | 4.0 |           |
| E TMVW+p                    | MT20   | 4.0 | 4.0 | 2.25 2.00 |
| H TMVW+p                    | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| J BMV1+p                    | MT20   | 3.0 | 4.0 |           |
| K BMVW1+1                   | MT20   | 4.0 | 4.0 |           |
| L, M, N                     |        |     |     |           |
| L BMV1+1                    | MT20   | 2.0 | 4.0 |           |
| O BMVW1+1                   | MT20   | 4.0 | 4.0 |           |
| P BMV1+p                    | MT20   | 3.0 | 4.0 |           |

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

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

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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                          | WEBS  |                           |                          |  |
|--------|---------------------------|---------------------------|--------------------------|-------|---------------------------|--------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (L) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (L) |  |
| FR-TO  |                           | FROM TO                   |                          | FR-TO |                           |                          |  |
| P-B    | -283 / 0                  | 0.0 0.0                   | 0.03 (1)                 | M-E   | -147 / 0                  | 0.08 (1)                 |  |
| A-B    | 0 / 42                    | -102.1 -102.1             | 0.14 (1)                 | N-D   | -225 / 0                  | 0.07 (1)                 |  |
| B-C    | -24 / 0                   | -102.1 -102.1             | 0.08 (1)                 | O-C   | -221 / 0                  | 0.04 (1)                 |  |
| C-D    | -27 / 0                   | -102.1 -102.1             | 0.08 (1)                 | L-F   | -225 / 0                  | 0.07 (1)                 |  |
| D-E    | -34 / 0                   | -102.1 -102.1             | 0.08 (1)                 | K-G   | -221 / 0                  | 0.04 (1)                 |  |
| E-F    | -34 / 0                   | -102.1 -102.1             | 0.08 (1)                 | B-O   | 0 / 33                    | 0.01 (1)                 |  |
| F-G    | -27 / 0                   | -102.1 -102.1             | 0.08 (1)                 | K-H   | 0 / 33                    | 0.01 (1)                 |  |
| G-H    | -24 / 0                   | -102.1 -102.1             | 0.08 (1)                 |       |                           |                          |  |
| H-I    | 0 / 42                    | -102.1 -102.1             | 0.14 (1)                 |       |                           |                          |  |
| J-H    | -283 / 0                  | 0.0 0.0                   | 0.03 (1)                 |       |                           |                          |  |
| P-O    | 0 / 0                     | -38.5 -38.5               | 0.03 (3)                 |       |                           |                          |  |
| O-N    | 0 / 22                    | -38.5 -38.5               | 0.03 (3)                 |       |                           |                          |  |
| N-M    | 0 / 17                    | -38.5 -38.5               | 0.03 (3)                 |       |                           |                          |  |
| M-L    | 0 / 17                    | -38.5 -38.5               | 0.03 (3)                 |       |                           |                          |  |
| L-K    | 0 / 22                    | -38.5 -38.5               | 0.03 (3)                 |       |                           |                          |  |
| K-J    | 0 / 0                     | -38.5 -38.5               | 0.03 (3)                 |       |                           |                          |  |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2015  
- CSA 086-14  
- TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.14/1.00 (H-1), BC=0.03/1.00 (K-L-3), WB=0.08/1.00 (E-M-1), SS=0.09/1.00 (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

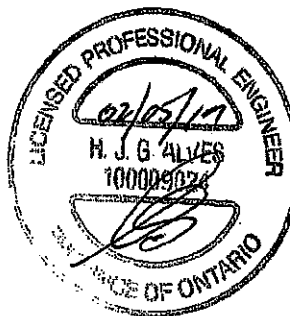
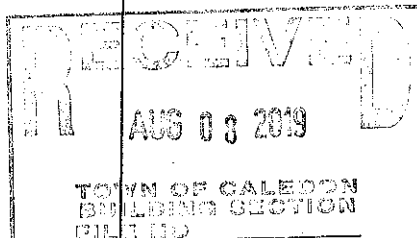
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (H) (INPUT = 0.90)  
JSI METAL= 0.12 (F) (INPUT = 1.00)



DWG NO. TAM 190219  
STRUCTURAL  
COMPONENT ONLY

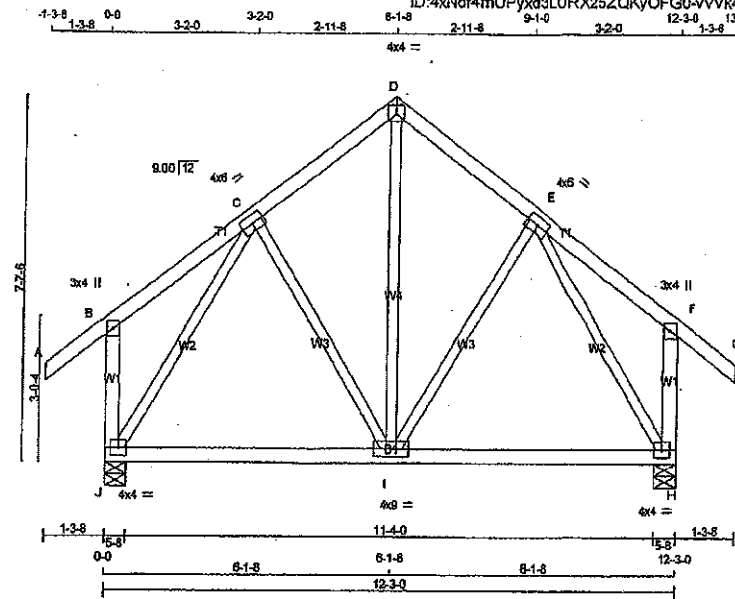


|                           |                         |               |          |                        |             |                 |
|---------------------------|-------------------------|---------------|----------|------------------------|-------------|-----------------|
| JOB NAME<br>200444-401156 | TRUSS NAME<br>T12-Cond2 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>Preston 3 | TRUSS DESC. | DRWG NO.<br>T12 |
|---------------------------|-------------------------|---------------|----------|------------------------|-------------|-----------------|

Tamarack Roof Truss, Burlington

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ID:4xNd4mUPyx43LURX25ZQKyOFG0-vVvk46qzv8UN27?JGrtqKgbYcLTnc?OIUTJ4QT3zo5H



Scale = 1:4.3

TOTAL WEIGHT = 2 X 65 = 130 lb

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

ALL WEBS 2x3 DRY No.2

EXCEPT

| PLATES (table is in inches) |        |     |     |           |
|-----------------------------|--------|-----|-----|-----------|
| JT TYPE                     | PLATES | W   | LEN | Y X       |
| B TMV+p                     | MT20   | 3.0 | 4.0 |           |
| C TMVWV-t                   | MT20   | 4.0 | 8.0 |           |
| D TTV-p                     | MT20   | 4.0 | 4.0 | 2.25 2.00 |
| E TMVWV-t                   | MT20   | 4.0 | 8.0 |           |
| F TMV+p                     | MT20   | 3.0 | 4.0 |           |
| H BMVWV-t                   | MT20   | 4.0 | 4.0 |           |
| I BMVWV-t                   | MT20   | 4.0 | 9.0 |           |
| J BMVWV-t                   | MT20   | 4.0 | 4.0 |           |

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

| BEARINGS       |      |      |      |                  |     |       |       |
|----------------|------|------|------|------------------|-----|-------|-------|
| FACTORED       |      |      |      | MAXIMUM FACTORED |     |       |       |
| GROSS REACTION |      |      |      | GROSS REACTION   |     |       |       |
| JT             | VERT | HORZ | DOWN | JT               | BRG | IN-SX | IN-SX |
| J              | 1002 | 0    | 1002 | 0                | 5-8 | 5-8   | 5-8   |
| H              | 1002 | 0    | 1002 | 0                | 5-8 | 5-8   | 5-8   |

| UNFACTORED REACTIONS |          |         |         |                             |           |         |       |
|----------------------|----------|---------|---------|-----------------------------|-----------|---------|-------|
| 1ST LCASE            |          |         |         | MAX/MIN COMPONENT REACTIONS |           |         |       |
| JT                   | COMBINED | SNOW    | LIVE    | JT                          | PERM.LIVE | WIND    | DEAD  |
| J                    | 740      | 438 / 0 | 129 / 0 | 0 / 0                       | 0 / 0     | 178 / 0 | 0 / 0 |
| H                    | 740      | 438 / 0 | 129 / 0 | 0 / 0                       | 0 / 0     | 178 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, 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 |             |                |           | MAX. FACTORED |             |           |           |
| MEMB.         | FORCE (LBS) | VERT. LOAD LC1 | MAX. (LC) | MEMB.         | FORCE (LBS) | MAX. (LC) | MAX. (LC) |
| FR-TO         |             | FROM TO        |           | FR-TO         |             |           |           |
| A-B           | 0 / 42      | -102.1 -102.1  | 0.14 (1)  | 1-D           | 0 / 345     | 0.08 (2)  |           |
| B-C           | 0 / 21      | -102.1 -102.1  | 0.15 (1)  | 1-E           | -28 / 69    | 0.02 (3)  |           |
| C-D           | -503 / 0    | -102.1 -102.1  | 0.12 (1)  | 1-F           | -28 / 69    | 0.02 (3)  |           |
| D-E           | -503 / 0    | -102.1 -102.1  | 0.12 (1)  | 1-G           | -762 / 0    | 0.43 (1)  |           |
| E-F           | 0 / 21      | -102.1 -102.1  | 0.15 (1)  | 1-H           | -762 / 0    | 0.43 (1)  |           |
| F-G           | 0 / 42      | -102.1 -102.1  | 0.14 (1)  |               |             |           |           |
| J-B           | -264 / 0    | 0.0 0.0        | 0.04 (1)  |               |             |           |           |
| H-F           | -264 / 0    | 0.0 0.0        | 0.04 (1)  |               |             |           |           |
| J-I           | 0 / 400     | -38.5 -38.5    | 0.36 (3)  |               |             |           |           |
| I-H           | 0 / 400     | -38.5 -38.5    | 0.36 (3)  |               |             |           |           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:  
- PART 8 OF BCBC 2018  
- CSA 088-14  
- TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = 1/360 (0.41")  
CALCULATED VERT. DEFL.(LL) = 1/989 (0.04")  
ALLOWABLE DEFL.(TL) = 1/360 (0.41")  
CALCULATED VERT. DEFL.(TL) = 1/989 (0.07")

CSI: TC=0.15/1.00 (E-F:1), BC=0.36/1.00 (H-I:3), WB=0.43/1.00 (C-J:1), SS=0.16/1.00 (H-I:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

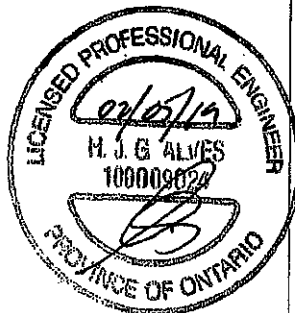
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES             |         |       |                    |
|-------------------------|---------|-------|--------------------|
| PLATE GRIP(DRY) SHEAR   | SECTION |       |                    |
| (PSI)                   | (PLI)   | (PLI) |                    |
| MAX MIN MAX MIN MAX MIN |         |       |                    |
| MT20                    | 850     | 371   | 1747 788 1987 1873 |

PLATE PLACEMENT TOL = 0.250 inches

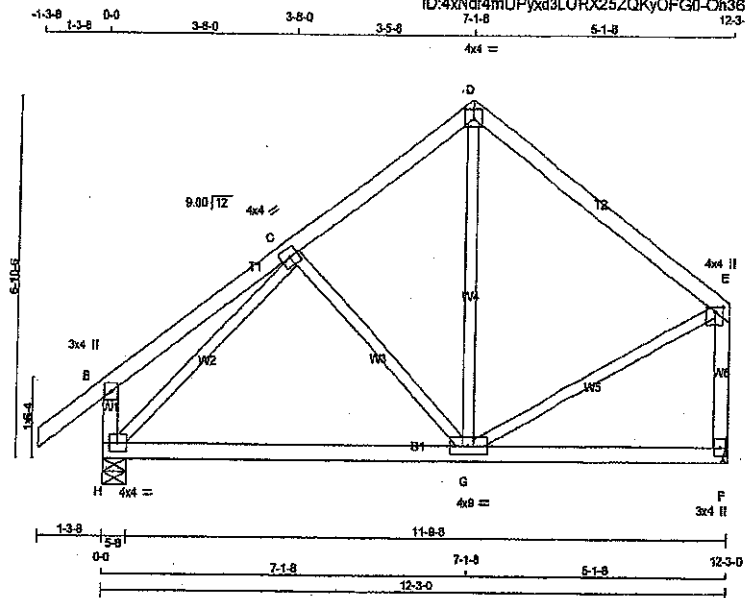
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.59 (D) (INPUT = 0.90)  
JSI METAL= 0.16 (E) (INPUT = 1.00)



DRWG NO. TAM T1202721  
STRUCTURAL  
COMPONENT ONLY

|                                                        |                          |                                                                                                                                                              |                 |                               |                        |
|--------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------|------------------------|
| JOB NAME<br><b>200444-401156</b>                       | TRUSS NAME<br><b>T13</b> | QUANTITY<br><b>2</b>                                                                                                                                         | PLY<br><b>1</b> | JOB DESC.<br><b>Preston 3</b> | DRWG NO.<br><b>T13</b> |
| TRUSS DESC.<br><b>Tamagochi Roof Truss, Burlington</b> |                          | Version 8.230 5 Nov 17 2018 Mitel Industries, Inc. Tue Feb 5 20:29:16 2019 Page 1<br>ID:4xNd4mUPyxd3LURX25ZQKyOFG0-Oh361xrcgRcEHZVqZLzppUK?78ksxdhNp_?Vzo5IH |                 |                               |                        |



TOTAL WEIGHT = 2 X 55 = 111 lb

#### LUMBER

##### N.L.G.A. RULES

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

#### DESCR.

|     |
|-----|
| SPF |
| SPF |
| SPF |
| SPF |

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
|----|----------------|------------------|-------|-------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT | VERT           | DOWN             | UP    | IN-SX |
| F  | 881            | 0                | 881   | 0     |
| H  | 1002           | 0                | 1002  | 0     |

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

##### UNFACTORED REACTIONS

| 1ST LCASE | SNOW     | LIVE    | PERM.LIVE | WIND  | DEAD    | SOIL  |
|-----------|----------|---------|-----------|-------|---------|-------|
| JT        | COMBINED |         |           |       |         |       |
| F         | 644      | 356 / 0 | 129 / 0   | 0 / 0 | 159 / 0 | 0 / 0 |
| H         | 740      | 436 / 0 | 129 / 0   | 0 / 0 | 178 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |          |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |          |
| A-B    | 0 / 42                    | -102.1 -102.1             | 0.14 (1)      | 10.00 | C-G                       | -208 / 6      | 0.10 (1) |
| B-C    | 0 / 25                    | -102.1 -102.1             | 0.21 (1)      | 10.00 | G-D                       | 0 / 278       | 0.08 (3) |
| C-D    | -652 / 0                  | -102.1 -102.1             | 0.16 (1)      | 6.25  | H-C                       | -832 / 0      | 0.37 (1) |
| D-E    | -627 / 0                  | -102.1 -102.1             | 0.35 (1)      | 6.25  | G-E                       | 0 / 478       | 0.11 (1) |
| H-B    | -279 / 0                  | 0.0                       | 0.03 (1)      | 7.81  |                           |               |          |
| F-E    | -798 / 0                  | 0.0                       | 0.03 (1)      | 7.81  |                           |               |          |
| H-G    | 0 / 563                   | -38.5 -38.5               | 0.40 (2)      | 10.00 |                           |               |          |
| G-F    | 0 / 0                     | -38.5 -38.5               | 0.35 (3)      | 10.00 |                           |               |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 29.0 PSF |
|            | DL = 8.0 PSF  |
| BOT CH.    | LL = 10.5 PSF |
|            | DL = 7.0 PSF  |
| TOTAL LOAD | = 52.5 PSF    |

##### SPACING = 24" IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015
- CSA 086-14
- TPC 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.41")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")  
ALLOWABLE DEFL. (TL) = L/360 (0.41")  
CALCULATED VERT. DEFL. (TL) = L/948 (0.16")

CS1: TC=0.35/1.00 (D-E:1), BC=0.40/1.00 (G-H:2), WB=0.37/1.00 (C-H:1), SS=0.17/1.00 (3-H: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.

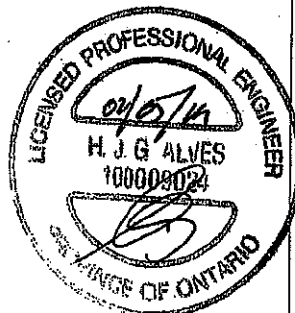
##### NAIL VALUES

| PLATE | GRIP (DRY) (PSI) | SHEAR (PLF) | SECTION (PLF) |
|-------|------------------|-------------|---------------|
| MT20  | 650              | 371         | 1747          |
|       | 788              | 1887        | 1873          |

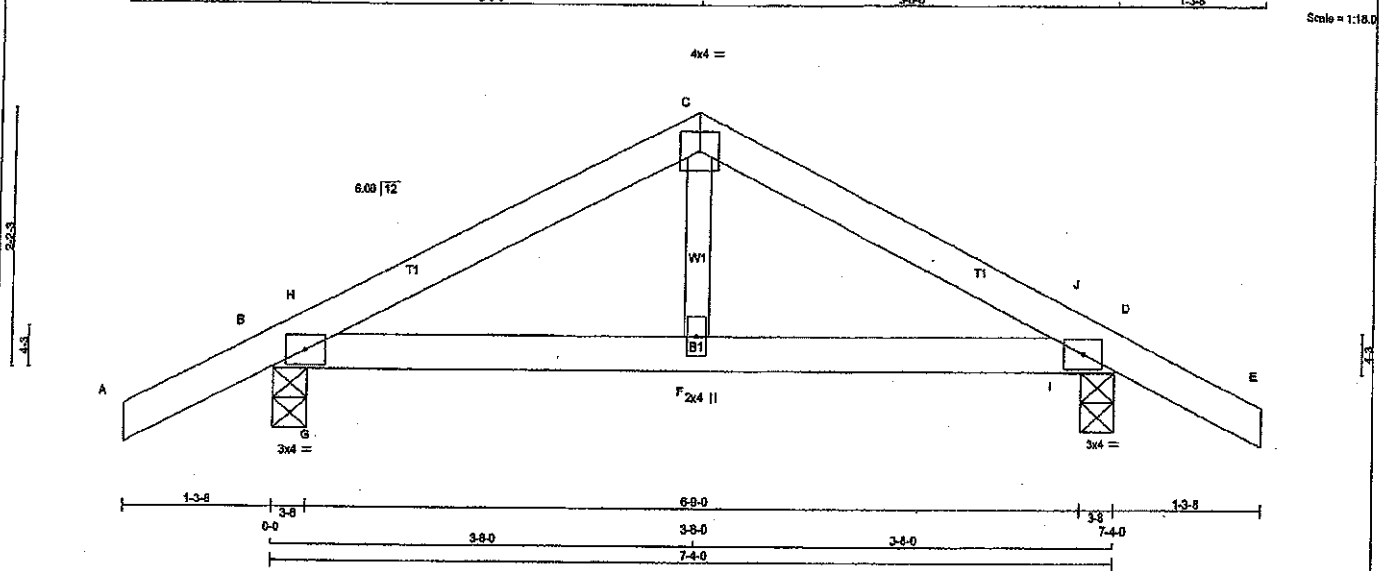
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (C) (INPUT = 0.90)  
JSI METAL= 0.27 (C) (INPUT = 1.00)



DRWG NO. TAM 1770 2722  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 4 X 23 = 92 lb

| LUMBER               |     |      |        |      |       |  |
|----------------------|-----|------|--------|------|-------|--|
| N. L. G. A. RULES    |     |      |        |      |       |  |
| CHORDS               |     | SIZE | LUMBER |      | DESCR |  |
| A - C                | 2x4 | DRY  | No.2   | SPF  |       |  |
| C - E                | 2x4 | DRY  | No.2   | SPF  |       |  |
| B - D                | 2x4 | DRY  | No.2   | SPF  |       |  |
| ALL WEBS             |     | 2x8  | DRY    | No.2 | SPF   |  |
| DRY: SEASONED LUMBER |     |      |        |      |       |  |

| PLATES (table is in inches) | 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                           | BMW-W   | MT20   | 2.0 | 4.0 |   |   |

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

| BEARINGS |      | FACTORED |          | MAXIMUM FACTORED |       | INPUT |       | RECORD |       |
|----------|------|----------|----------|------------------|-------|-------|-------|--------|-------|
| JT       | VERT | GROSS    | REACTION | DOWN             | HORIZ | UP    | IN-SX | BRG    | IN-SX |
| B        | 654  | 0        | 654      | 0                | 0     | 3-8   | 3-8   |        |       |
| D        | 654  | 0        | 654      | 0                | 0     | 3-8   | 3-8   |        |       |

**UNFACTORED REACTIONS**

| JT | 1ST CASE | SNOW    | LIVE   | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|--------|------------|-------|---------|-------|
| B  | 480      | 292 / 0 | 77 / 0 | 0 / 0      | 0 / 0 | 112 / 0 | 0 / 0 |
| D  | 480      | 292 / 0 | 77 / 0 | 0 / 0      | 0 / 0 | 112 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSF (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSF (LC) |          |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |          |
| A-B    | 0 / 30                    | -102.1 -102.1             | 0.13 (1)      | 10.00 | F-C                       | 0 / 258       | 0.08 (2) |
| B-H    | -607 / 0                  | -102.1 -102.1             | 0.04 (1)      | 8.25  | G-H                       | -221 / 43     | 0.00 (1) |
| H-C    | -626 / 0                  | -102.1 -102.1             | 0.15 (1)      | 8.25  | I-J                       | -221 / 43     | 0.00 (1) |
| C-J    | -626 / 0                  | -102.1 -102.1             | 0.15 (1)      | 8.25  |                           |               |          |
| J-D    | -607 / 0                  | -102.1 -102.1             | 0.04 (1)      | 8.25  |                           |               |          |
| D-E    | 0 / 30                    | -102.1 -102.1             | 0.13 (1)      | 10.00 |                           |               |          |
| B-G    | 0 / 556                   | -38.5 -38.5               | 0.22 (1)      | 10.00 |                           |               |          |
| G-F    | 0 / 556                   | -38.5 -38.5               | 0.22 (1)      | 10.00 |                           |               |          |
| F-I    | 0 / 556                   | -38.5 -38.5               | 0.22 (1)      | 10.00 |                           |               |          |
| I-D    | 0 / 556                   | -38.5 -38.5               | 0.22 (1)      | 10.00 |                           |               |          |

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2015  
- CSA 086-14  
- TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L^3/360$  (0.24")  
CALCULATED VERT. DEFL. (LL) =  $L^3/998$  (0.01")  
ALLOWABLE DEFL. (TL) =  $L^3/360$  (0.24")  
CALCULATED VERT. DEFL. (TL) =  $L^3/998$  (0.02")

CSF: TC=0.15/1.00 (C-J:1), BC=0.22/1.00 (F-I:1), WB=0.08/1.00 (C-F:2), SS=0.19/1.00 (D-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

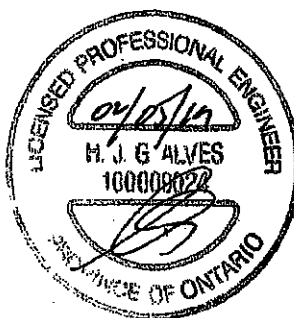
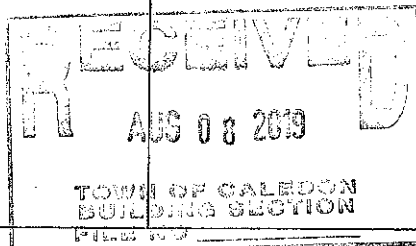
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

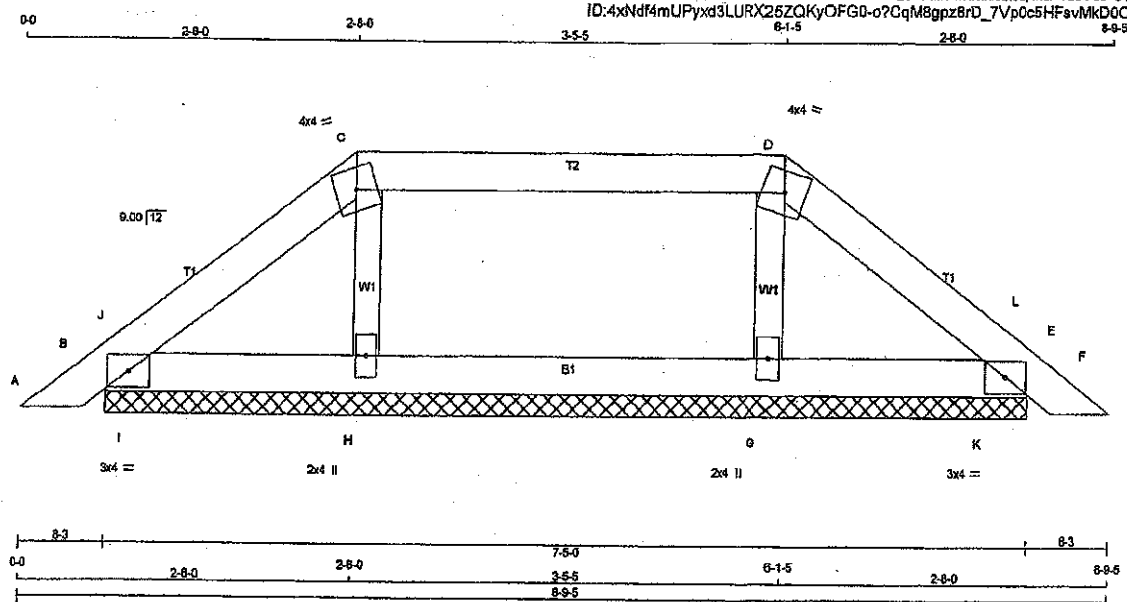
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.56 (B) (INPUT = 0.90)  
JSI METAL= 0.21 (B) (INPUT = 1.00)



DRWG NO. TAM 1790 2723  
STRUCTURAL  
COMPONENT ONLY



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

SPF

SPF

SPF

SPF

ALL WEBS

2x3

DRY

No.2

DRY: SEASONED LUMBER.

2x4

DRY

No.2

2x4

DRY

No.2

2x4

DRY

No.2

2x4

DRY

No.2

2x4

DRY

No.2

2x4

DRY

No.2

PLATES (table is in inches)

JT TYPE

PLATES

W

LEN

Y

X

B

TMB1-I

MT20

3.0

4.0

C

TTW-m

MT20

4.0

4.0

D

TTW-m

MT20

4.0

4.0

E

TMB1-I

MT20

3.0

4.0

G

BMV1+u

MT20

2.0

4.0

H

BMV1+u

MT20

2.0

4.0

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

BEARINGS

FACTORED

GROSS REACTION

MAXIMUM FACTORED

GROSS REACTION

INPUT

REQRD

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

B

232

0

232

0

0

7-5-0

7-5-0

E

232

0

232

0

0

7-5-0

7-5-0

H

349

0

349

0

0

7-5-0

7-5-0

G

349

0

349

0

0

7-5-0

7-5-0

UNFACTORED REACTIONS

1ST CASE

MAX. MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

B

168

117/0

15/0

0/0

0/0

34/0

0/0

E

168

117/0

15/0

0/0

0/0

34/0

0/0

G

266

133/0

63/0

0/0

0/0

69/0

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

MAX. FACTORED

FACTORED

VERT. LOAD LC1

MAX

MAX

WEBS

MAX. FACTORED

MEMB.

FORCE (LBS)

VERT. LOAD LC1 (PLF)

CS1 (LC)

UNBRAC LENGTH

MEMB.

FORCE (LBS)

MAX CS1 (LC)

FR-TO

FROM

TO

FR-TO

A-B

0/17

-102.1

-102.1

0.03 (1)

10.00

H-C

-215/0

0.03 (1)

B-J

-64/0

-102.1

-102.1

0.01 (1)

6.25

G-D

-215/0

0.03 (1)

J-C

-76/0

-102.1

-102.1

0.05 (1)

6.25

I-J

-119/0

0.00 (1)

C-D

-44/0

-102.1

-102.1

0.21 (1)

6.25

K-L

-119/0

0.00 (1)

D-L

-76/0

-102.1

-102.1

0.05 (1)

6.25

L-E

-64/0

-102.1

-102.1

0.01 (1)

6.25

E-F

0/17

-102.1

-102.1

0.03 (1)

10.00

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD LC1

MAX

MAX

WEBS

MAX. FACTORED

MEMB.

FORCE (LBS)

VERT. LOAD LC1 (PLF)

CS1 (LC)

UNBRAC LENGTH

MEMB.

FORCE (LBS)

MAX CS1 (LC)

FR-TO

FROM

TO

FR-TO

A-B

0/17

-102.1

-102.1

0.03 (1)

10.00

H-C

-215/0

0.03 (1)

B-J

-64/0

-102.1

-102.1

0.01 (1)

6.25

G-D

-215/0

0.03 (1)

J-C

-76/0

-102.1

-102.1

0.05 (1)

6.25

I-J

-119/0

0.00 (1)

C-D

-44/0

-102.1

-102.1

0.21 (1)

6.25

K-L

-119/0

0.00 (1)

D-L

-76/0

-102.1

-102.1

0.05 (1)

6.25

L-E

-64/0

-102.1

-102.1

0.01 (1)

6.25

E-F

0/17

-102.1

-102.1

0.03 (1)

10.00

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD LC1

MAX

MAX

WEBS

MAX. FACTORED

MEMB.

FORCE (LBS)

VERT. LOAD LC1 (PLF)

CS1 (LC)

UNBRAC LENGTH

MEMB.

FORCE (LBS)

MAX CS1 (LC)

FR-TO

FROM

TO

FR-TO

A-B

0/17

-102.1

-102.1

0.03 (1)

10.00

H-C

-215/0

0.03 (1)

B-J

-64/0

-102.1

-102.1

0.01 (1)

6.25

G-D

-215/0

0.03 (1)

J-C

-76/0

-102.1

-102.1

0.05 (1)

6.25

I-J

-119/0

0.00 (1)

C-D

-44/0

-102.1

-102.1

0.21 (1)

6.25

K-L

-119/0

0.00 (1)

D-L

-76/0

-102.1

-102.1

0.05 (1)

6.25

L-E

-64/0

-102.1

-102.1

0.01 (1)

6.25

E-F

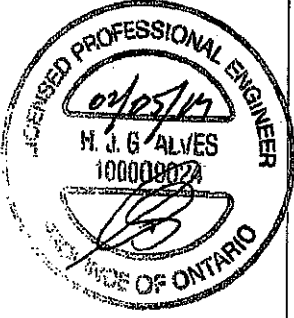
0/17

-102.1

-102.1

0.03 (1)

10.00



DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. G/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1: TC=0.21/1.00 (C-D:1), BC=0.08/1.00 (H-I:2), WB=0.03/1.00 (C-H:1), SS=0.14/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 L3 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)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1687 786 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90 )

JSI METAL= 0.05 (H) (INPUT = 1.00 )

DWG NO. TAM 17902724

STRUCTURAL

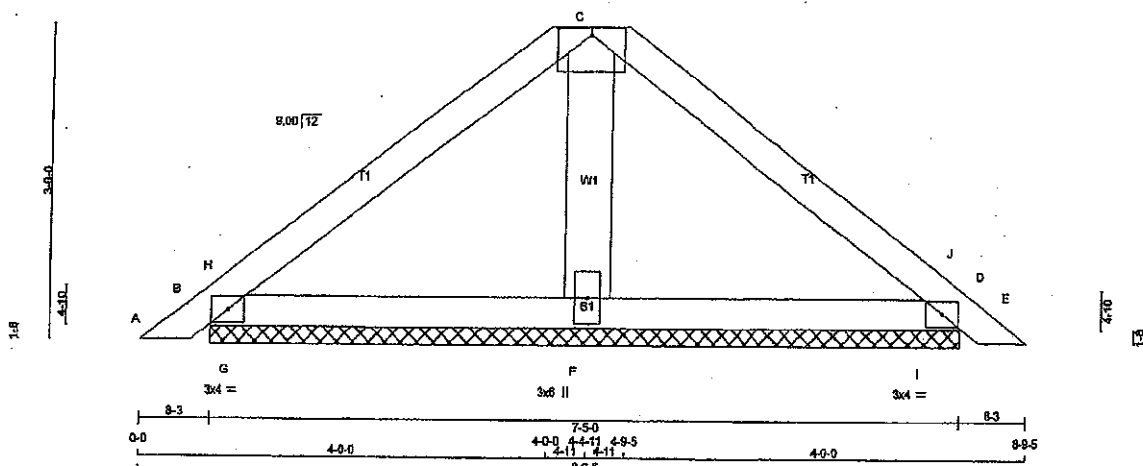
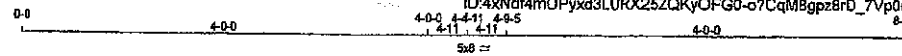
COMPONENT ONLY

|                           |                   |               |          |                        |                 |
|---------------------------|-------------------|---------------|----------|------------------------|-----------------|
| JOB NAME<br>200444-401156 | TRUSS NAME<br>PB2 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>Preston 3 | DRWG NO.<br>PB2 |
|---------------------------|-------------------|---------------|----------|------------------------|-----------------|

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 25 lb

#### LUMBER

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMB1-I | MT20   | 3.0 | 4.0 |      |      |
| C  | TMTMWm | MT20   | 5.0 | 8.0 | 0.75 | 4.00 |
| D  | TMB1-I | MT20   | 3.0 | 4.0 |      |      |
| F  | BMW1+I | MT20   | 3.0 | 6.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| B        | 373                     | 0                               | 373       | 0        |
| D        | 373                     | 0                               | 373       | 0        |
| F        | 418                     | 0                               | 418       | 0        |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW    | LIVE   | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|-------------------------------|---------|--------|------------|-------|--------|-------|
| B  | COMBINED |                               | 173 / 0 | 37 / 0 | 0 / 0      | 0 / 0 | 61 / 0 | 0 / 0 |
| D  |          |                               | 173 / 0 | 37 / 0 | 0 / 0      | 0 / 0 | 61 / 0 | 0 / 0 |
| F  |          |                               | 153 / 0 | 81 / 0 | 0 / 0      | 0 / 0 | 86 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED HORIZ. LOAD (LC) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (LC) |
|--------|---------------------------|---------------------------|-------------------------------|--------------------------------|-------|---------------------------|--------------------------------|
| FR-TO  |                           | FROM TO                   |                               |                                | FR-TO |                           |                                |
| A-B    | 0 / 17                    | -102.1 -102.1             | 0.03 (1)                      | 10.00                          | F-C   | -156 / 0                  | 0.01 (1)                       |
| B-H    | -76 / 0                   | -102.1 -102.1             | 0.07 (1)                      | 6.25                           | G-H   | -384 / 24                 | 0.00 (1)                       |
| H-C    | -146 / 0                  | -102.1 -102.1             | 0.17 (1)                      | 6.25                           | I-J   | -384 / 24                 | 0.00 (1)                       |
| C-J    | -146 / 0                  | -102.1 -102.1             | 0.17 (1)                      | 6.25                           |       |                           |                                |
| J-D    | -76 / 0                   | -102.1 -102.1             | 0.07 (1)                      | 6.25                           |       |                           |                                |
| D-E    | 0 / 17                    | -102.1 -102.1             | 0.03 (1)                      | 10.00                          |       |                           |                                |
| B-G    | 0 / 109                   | -38.5 -38.5               | 0.16 (1)                      | 10.00                          |       |                           |                                |
| G-F    | 0 / 109                   | -38.5 -38.5               | 0.18 (1)                      | 10.00                          |       |                           |                                |
| F-I    | 0 / 109                   | -38.5 -38.5               | 0.18 (1)                      | 10.00                          |       |                           |                                |
| I-D    | 0 / 109                   | -38.5 -38.5               | 0.16 (1)                      | 10.00                          |       |                           |                                |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 28.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. 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 NBCC 2018, OBC 2012  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17/1.00 (C-H:1), BC=0.18/1.00 (F-I:1), WB=0.01/1.00 (C-F:1), SS=0.31/1.00 (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 (PS) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 816 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.30 (D) (INPUT = 0.90)  
JSI METAL= 0.07 (D) (INPUT = 1.00)



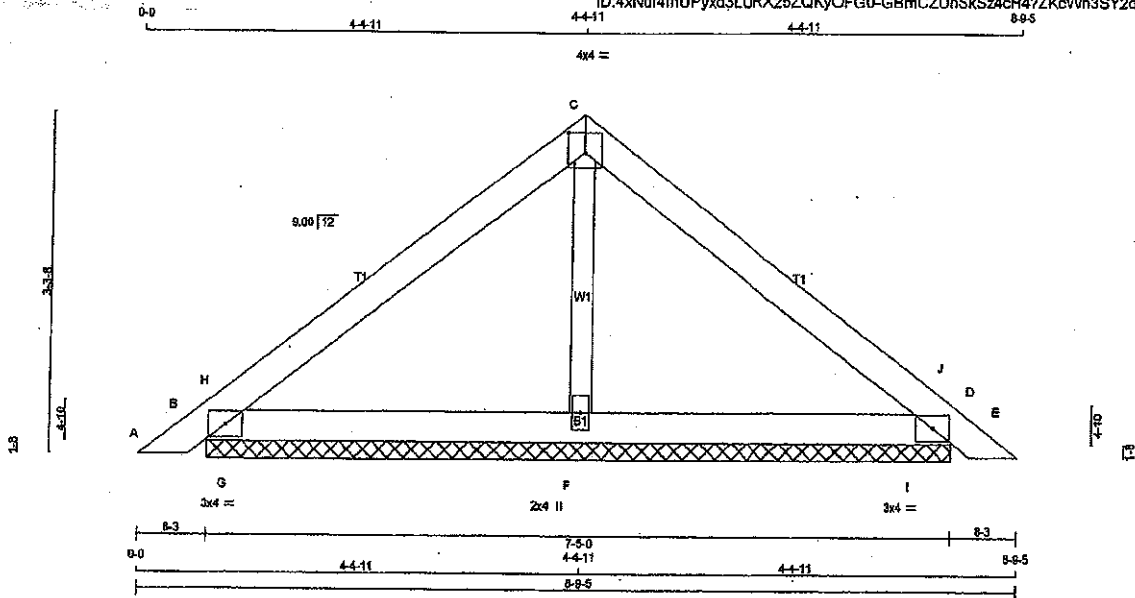
DWG NO. TAM 12902725  
STRUCTURAL  
COMPONENT ONLY

|                                 |                   |               |          |                        |                 |
|---------------------------------|-------------------|---------------|----------|------------------------|-----------------|
| JOB NAME<br>200444-401156       | TRUSS NAME<br>PB3 | QUANTITY<br>8 | PLY<br>1 | JOB DESC.<br>Preston 3 | DRWG NO.<br>PB3 |
| Tamarack Roof Truss, Burlington |                   |               |          | TRUSS DESC.            |                 |

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ID:4xNdf4mUPyxd3LURX25ZQKyOFG0-GBmCZUkShSz4cH472KcWn3SY2dKbB24JirAo2Izo5IU

Scale = 1:20.6



TOTAL WEIGHT = 8 X 23 = 184 lb

#### LUMBER

##### N.L.G.A. RULES

##### CHORDS SIZE

A - C 2x4 DRY

C - E 2x4 DRY

B - D 2x4 DRY

ALL WEBS 2x3 DRY

DRY: SEASONED LUMBER

LUMBER

No.2

No.2

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

SPF

SPF

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

##### BUILDING DESIGNER

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORIZ                           | DOWN      | HORIZ    |
| B  | 385                     | 0                               | 385       | 0        |
| D  | 385                     | 0                               | 385       | 0        |
| F  | 394                     | 0                               | 394       | 0        |

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|-------------------------------|------------|------|------|------|
| JT | COMBINED | SNOW                          | LIVE       |      |      |      |
| B  | 279      | 181/0                         | 37/0       | 0/0  | 0/0  | 0/0  |
| D  | 279      | 181/0                         | 37/0       | 0/0  | 0/0  | 0/0  |
| F  | 304      | 138/0                         | 82/0       | 0/0  | 0/0  | 0/0  |

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

##### BRACING

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

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |
|-------|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|
| FR-TO |        |                           |                           |                           | FR-TO |                           |                           |
| A-B   | 0/17   | -102.1                    | -102.1                    | 0.03 (1)                  | 10.00 | F-C                       | -131/0                    |
| B-H   | -77/0  | -102.1                    | -102.1                    | 0.07 (1)                  | 8.25  | G-H                       | -382/25                   |
| H-C   | -168/0 | -102.1                    | -102.1                    | 0.17 (1)                  | 6.25  | I-J                       | -382/25                   |
| C-J   | -168/0 | -102.1                    | -102.1                    | 0.17 (1)                  | 6.25  |                           |                           |
| J-D   | -77/0  | -102.1                    | -102.1                    | 0.07 (1)                  | 6.25  |                           |                           |
| D-E   | 0/17   | -102.1                    | -102.1                    | 0.03 (1)                  | 10.00 |                           |                           |
| B-G   | 0/125  | -38.5                     | -38.5                     | 0.16 (1)                  | 10.00 |                           |                           |
| G-F   | 0/125  | -38.5                     | -38.5                     | 0.16 (1)                  | 10.00 |                           |                           |
| F-I   | 0/125  | -38.5                     | -38.5                     | 0.16 (1)                  | 10.00 |                           |                           |
| I-D   | 0/125  | -38.5                     | -38.5                     | 0.16 (1)                  | 10.00 |                           |                           |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17/1.00 (C-J:1), BC=0.18/1.00 (F-I:1), WB=0.02/1.00 (C-F:1), SS=0.31/1.00 (D-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

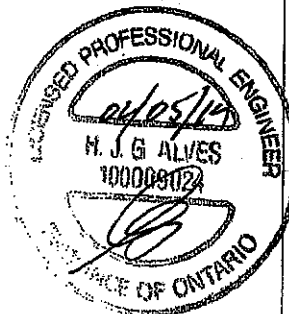
MT20 618 354 1667 788 1987 1666

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.31 (B) (INPUT = 0.90)

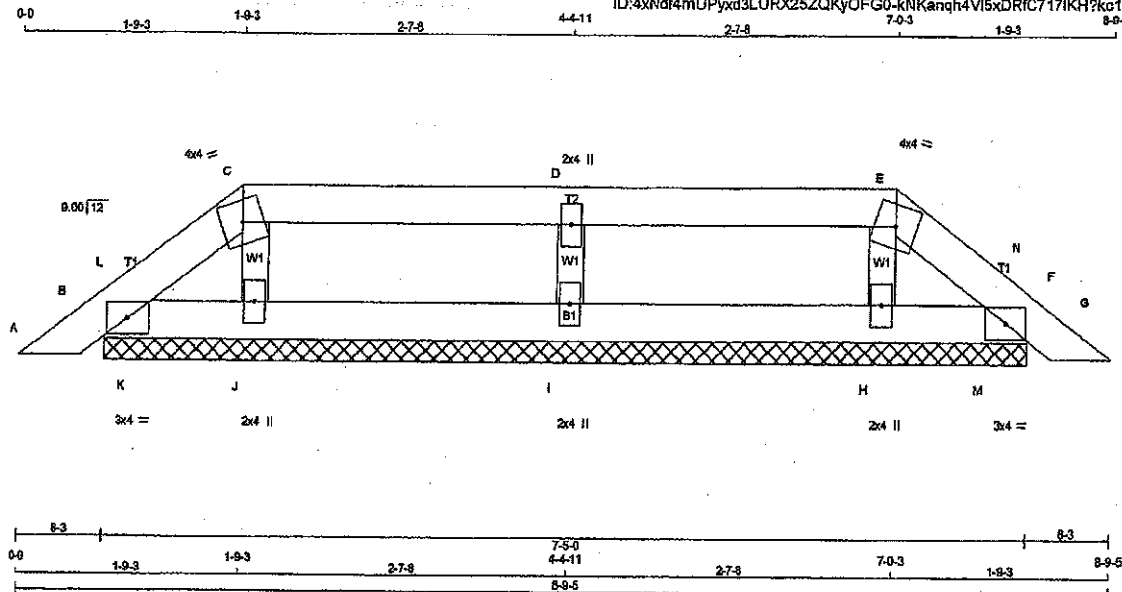
JBI METAL= 0.08 (B) (INPUT = 1.00)



DRWG NO. TAM 17902126  
STRUCTURAL  
COMPONENT ONLY



|                                                                         |                   |               |          |                                                                                   |                 |
|-------------------------------------------------------------------------|-------------------|---------------|----------|-----------------------------------------------------------------------------------|-----------------|
| JOB NAME<br>200444-401156                                               | TRUSS NAME<br>PB4 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>Preston 3                                                            | DRWG NO.<br>PB4 |
| Tamarack Roof Truss, Burlington                                         |                   |               |          | Version 8.230 S Nov 17 2015 Mitek Industries, Inc. Tue Feb 5 20:20:04 2016 Page 1 |                 |
| ID:4xNd4mUPyxd3LURX25ZQKyOFG0-kNKanqh4VIsxDRfC71KH?ko1j_wVzsxVvLaBzo5IT |                   |               |          |                                                                                   |                 |
| Scale = 1:16.8                                                          |                   |               |          |                                                                                   |                 |



**LUMBER**

N. L. G. A. RULES

| CHORDS               | SIZE | LUMBER | DESCR. |
|----------------------|------|--------|--------|
| A - C                | 2x4  | DRY    | No.2   |
| C - E                | 2x4  | DRY    | No.2   |
| E - G                | 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       | TMB1-J | MT20 | 3.0 | 4.0 |   |
| C       | TTW-m  | MT20 | 4.0 | 4.0 |   |
| D       | TWW-w  | MT20 | 2.0 | 4.0 |   |
| E       | TTW-m  | MT20 | 4.0 | 4.0 |   |
| F       | TMB1-I | MT20 | 3.0 | 4.0 |   |
| H, I, J | BMW1-w | MT20 | 2.0 | 4.0 |   |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG |
|----|-------------------------|---------------------------------|-----------|------------|
| JT | VERT                    | HORZ                            | DOWN      | UP         |
| B  | 145                     | 0                               | 145       | 0          |
| F  | 145                     | 0                               | 145       | 0          |
| J  | 220                     | 0                               | 220       | 0          |
| H  | 220                     | 0                               | 220       | 0          |
| I  | 434                     | 0                               | 434       | 0          |

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|-------------------------------|------|------|------------|------|------|------|
| B  | 102      | 77/0                          | 5/0  | 0/0  | 0/0        | 19/0 | 0/0  |      |
| F  | 102      | 77/0                          | 5/0  | 0/0  | 0/0        | 19/0 | 0/0  |      |
| J  | 169      | 79/0                          | 44/0 | 0/0  | 0/0        | 48/0 | 0/0  |      |
| H  | 169      | 79/0                          | 44/0 | 0/0  | 0/0        | 48/0 | 0/0  |      |
| I  | 321      | 188/0                         | 56/0 | 0/0  | 0/0        | 76/0 | 0/0  |      |

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

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

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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS1 (LC) |  |
| FR-TO  |                           |                           |                        | FR-TO |                           |                        |  |
| A-B    | 0/17                      | -102.1                    | -102.1 0.03 (1)        | J-C   | -123/0                    | 0.02 (1)               |  |
| B-L    | -32/0                     | -102.1                    | -102.1 0.00 (2)        | H-E   | -123/0                    | 0.02 (1)               |  |
| L-C    | -32/0                     | -102.1                    | -102.1 0.01 (1)        | I-D   | -334/0                    | 0.05 (1)               |  |
| C-D    | -10/0                     | -102.1                    | -102.1 0.12 (1)        | K-L   | -55/0                     | 0.00 (1)               |  |
| D-E    | -10/0                     | -102.1                    | -102.1 0.12 (1)        | M-N   | -55/0                     | 0.00 (1)               |  |
| E-N    | -32/0                     | -102.1                    | -102.1 0.01 (1)        |       |                           |                        |  |
| N-F    | -32/0                     | -102.1                    | -102.1 0.00 (2)        |       |                           |                        |  |
| F-G    | 0/17                      | -102.1                    | -102.1 0.03 (1)        |       |                           |                        |  |
| B-K    | 0/25                      | -38.5                     | -38.5 0.02 (1)         |       |                           |                        |  |
| K-J    | 0/25                      | -38.5                     | -38.5 0.03 (2)         |       |                           |                        |  |
| J-I    | 0/10                      | -38.5                     | -38.5 0.04 (3)         |       |                           |                        |  |
| I-H    | 0/10                      | -38.5                     | -38.5 0.04 (3)         |       |                           |                        |  |
| H-M    | 0/25                      | -38.5                     | -38.5 0.03 (2)         |       |                           |                        |  |
| M-F    | 0/25                      | -38.5                     | -38.5 0.02 (1)         |       |                           |                        |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 20.0 PSF  
DL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 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 9, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, OBC 2012  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (C-D:1), BC=0.04/1.00 (I-J:3), WB=0.05/1.00 (D-I:1), SS=0.13/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

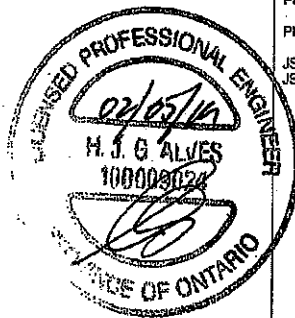
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1987 1655

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

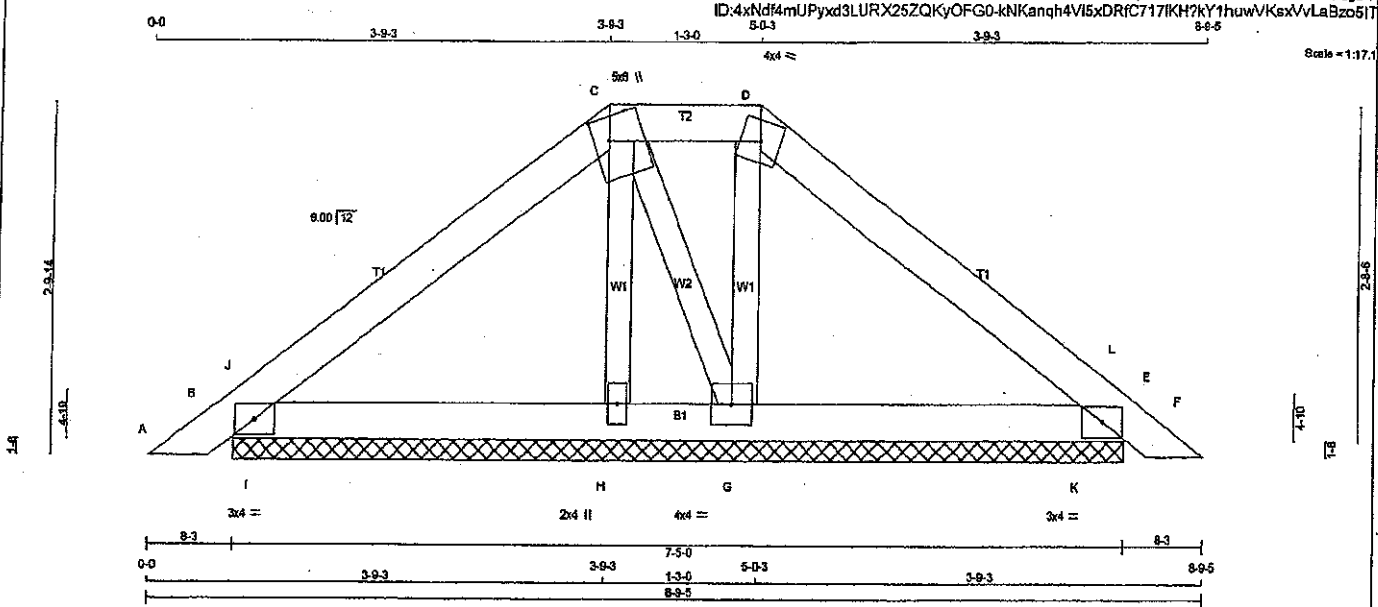
JSI GRIP= 0.17 (D) (INPUT = 0.90)  
JSI METAL= 0.07 (D) (INPUT = 1.00)



DRWG NO. TAM 17902721  
STRUCTURAL  
COMPONENT ONLY

|                           |                   |               |          |                        |                 |
|---------------------------|-------------------|---------------|----------|------------------------|-----------------|
| JOB NAME<br>200444-401156 | TRUSS NAME<br>PB5 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>Preston 3 | DRWG NO.<br>PB5 |
|---------------------------|-------------------|---------------|----------|------------------------|-----------------|

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ID:4xNd4mUPyxd3LURX25ZQKyOFG0-kNKangh4VI5xDRFC717KH7KY1huwVKsxVvLaBzo51T



| LUMBER               |      |        |        | DESIGN CRITERIA                                     |  |  |  |
|----------------------|------|--------|--------|-----------------------------------------------------|--|--|--|
| N. L. G. A. RULES    |      |        |        | SPECIFIED LOADS:                                    |  |  |  |
| CHORDS               | SIZE | LUMBER | DESCR. | TOP CH. LL = 28.0 PSF                               |  |  |  |
| A - C                | 2x4  | DRY    | No.2   | DL = 6.0 PSF                                        |  |  |  |
| C - D                | 2x4  | DRY    | No.2   | BOT CH. LL = 10.5 PSF                               |  |  |  |
| D - F                | 2x4  | DRY    | No.2   | DL = 7.0 PSF                                        |  |  |  |
| B - E                | 2x4  | DRY    | No.2   | TOTAL LOAD = 52.5 PSF                               |  |  |  |
| ALL WEBS             | 2x3  | DRY    | No.2   | SPACING = 24.0 IN. O.C.                             |  |  |  |
| DRY: SEASONED LUMBER |      |        |        | LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 |  |  |  |

| PLATES (table is in inches) |         |        |     |               |
|-----------------------------|---------|--------|-----|---------------|
| JT                          | TYPE    | PLATES | W   | LEN Y X       |
| B                           | TMB1-I  | MT20   | 3.0 | 4.0           |
| C                           | TTWW-m  | MT20   | 5.0 | 6.0 2.25 1.50 |
| D                           | TTW-m   | MT20   | 4.0 | 4.0           |
| E                           | TMB1-I  | MT20   | 3.0 | 4.0           |
| G                           | BMWW1-I | MT20   | 4.0 | 4.0           |
| H                           | BMW1+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  |       |
|----------|------|----------------|------|------------------|------|-------|-------|-------|-------|
| JT       | VERT | GROSS REACTION | HORZ | DOWN             | HORZ | BRG   | IN-SX | BRG   | IN-SX |
| B        | 338  | 0              | 338  | 0                | 0    | 7-5-0 | 7-5-0 | 7-5-0 | 7-5-0 |
| E        | 323  | 0              | 323  | 0                | 0    | 7-5-0 | 7-5-0 | 7-5-0 | 7-5-0 |
| H        | 200  | 0              | 200  | 0                | 0    | 7-5-0 | 7-5-0 | 7-5-0 | 7-5-0 |
| G        | 303  | 0              | 303  | 0                | 0    | 7-5-0 | 7-5-0 | 7-5-0 | 7-5-0 |

| UNFACTORED REACTIONS |          | 1ST LCASE |      | MAX/MIN. COMPONENT REACTIONS |      | WIND |      | DEAD     |       | SOIL |            |
|----------------------|----------|-----------|------|------------------------------|------|------|------|----------|-------|------|------------|
| JT                   | COMBINED | SNOW      | LIVE | PERM. LIVE                   | WIND | DEAD | SOIL | COMBINED | SNOW  | LIVE | PERM. LIVE |
| B                    | 248      | 157/0     | 34/0 | 0/0                          | 0/0  | 55/0 | 0/0  | 248      | 157/0 | 34/0 | 0/0        |
| E                    | 236      | 148/0     | 34/0 | 0/0                          | 0/0  | 53/0 | 0/0  | 236      | 148/0 | 34/0 | 0/0        |
| H                    | 158      | 87/0      | 45/0 | 0/0                          | 0/0  | 44/0 | 0/0  | 158      | 87/0  | 45/0 | 0/0        |
| G                    | 226      | 128/0     | 43/0 | 0/0                          | 0/0  | 55/0 | 0/0  | 226      | 128/0 | 43/0 | 0/0        |

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

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

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

**LOADING**  
TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED   |                 | WEBS  |             | FACTORED   |          |
|--------|-------------|------------|-----------------|-------|-------------|------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX         | MEMB. | FORCE (LBS) | VERT. LOAD | LC1 MAX  |
| FR-TO  |             | FROM       | TO              | FR-TO |             | FROM       | TO       |
| A-B    | 0/17        | -102.1     | -102.1 0.03 (1) | H-C   | -82/0       | 0.01 (1)   | 0.01 (1) |
| B-J    | -85/0       | -102.1     | -102.1 0.03 (1) | C-G   | -49/0       | 0.01 (1)   | 0.01 (1) |
| J-C    | -128/0      | -102.1     | -102.1 0.12 (1) | G-D   | -140/0      | 0.02 (1)   | 0.02 (1) |
| C-D    | -72/0       | -102.1     | -102.1 0.03 (1) | I-J   | -235/43     | 0.00 (1)   | 0.00 (1) |
| D-L    | -103/0      | -102.1     | -102.1 0.12 (1) | K-L   | -238/42     | 0.00 (1)   | 0.00 (1) |
| L-E    | -76/0       | -102.1     | -102.1 0.03 (1) |       |             |            |          |
| E-F    | 0/17        | -102.1     | -102.1 0.03 (1) |       |             |            |          |
| B-I    | 0/07        | -38.5      | -38.5 0.11 (1)  |       |             |            |          |
| I-H    | 0/97        | -38.5      | -38.5 0.11 (1)  |       |             |            |          |
| H-G    | 0/93        | -38.5      | -38.5 0.09 (1)  |       |             |            |          |
| G-K    | 0/78        | -38.5      | -38.5 0.11 (1)  |       |             |            |          |
| K-E    | 0/78        | -38.5      | -38.5 0.11 (1)  |       |             |            |          |

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 2010, CBC 2012  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (C-I), BC=0.11/1.00 (H-I), WB=0.02/1.00 (D-G), SSI=0.20/1.00 (E-K)

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

COMPANION LIVE LOAD FACTOR = 1.00

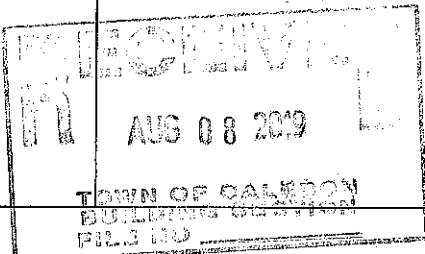
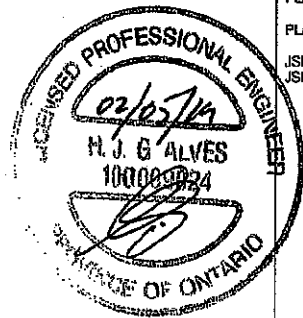
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

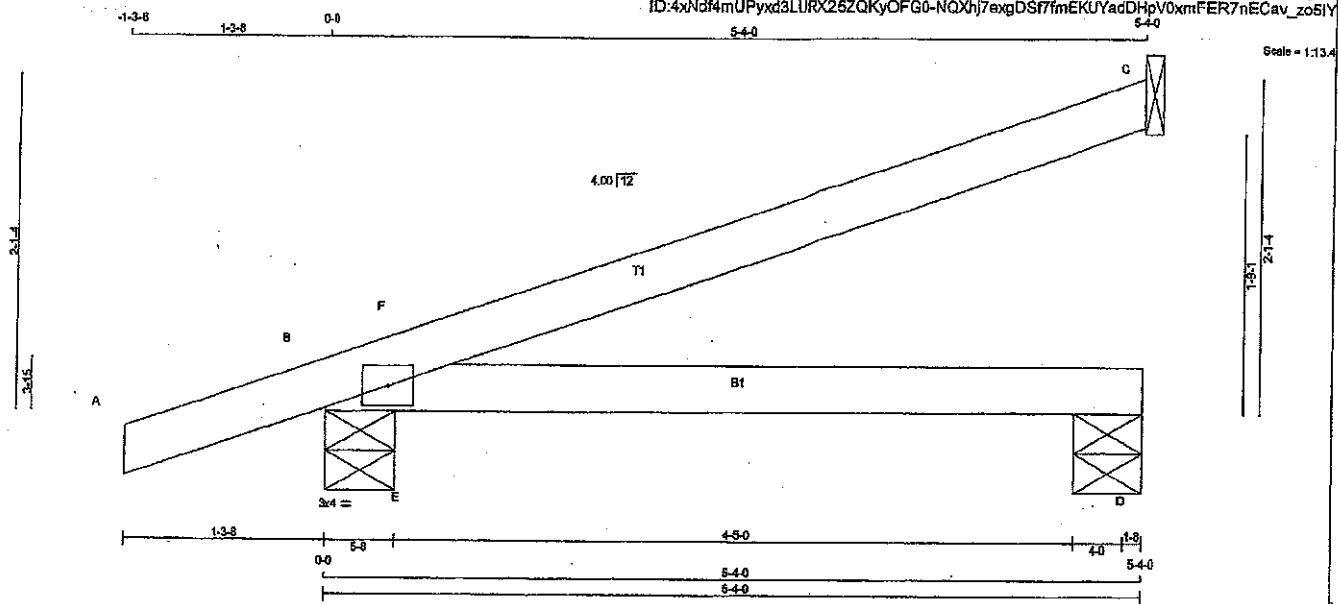
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.80)  
JSI METAL= 0.06 (B) (INPUT = 1.00)



DRWG NO. TAM 17402728  
STRUCTURAL  
COMPONENT ONLY

|                                 |                  |                                                                                   |          |                        |                |
|---------------------------------|------------------|-----------------------------------------------------------------------------------|----------|------------------------|----------------|
| JOB NAME<br>200444-401156       | TRUSS NAME<br>J4 | QUANTITY<br>3                                                                     | PLY<br>1 | JOB DESC.<br>Preston 3 | DRWG NO.<br>J4 |
| Tamarack Roof Truss, Burlington |                  | Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:30:59 2019 Page 1 |          |                        |                |
|                                 |                  | ID: 4xNdf4mUPyxd3LURX26ZQKyOFG0-NQXhj7exgDSf7meEKUYadDHPV0xmFER7nECav_zo5lY       |          |                        |                |



TOTAL WEIGHT = 3 X 14 = 42 lb

**LUMBER**  
N. L. G. A. RULES  
CHORDS SIZE DRY LUMBER  
A - C 2x4 DRY No.2  
B - D 2x4 DRY No.2  
DRY: SEASONED LUMBER.

**PLATES (table is in inches)**  
JT TYPE PLATES W LEN Y X  
B TMB14 MT20 3.0 4.0

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQD BRG |  |
|----|-------------------------|------|---------------------------------|------|-----------|-------|----------|--|
|    | VERT                    | HORZ | DOWN                            | HORZ | UP/LIFT   | IN-SX | IN-SX    |  |
| C  | 244                     | 0    | 244                             | 0    | 1-8       | 1-8   |          |  |
| B  | 512                     | 0    | 512                             | 0    | 5-8       | 5-8   |          |  |
| D  | 131                     | 0    | 142                             | 0    | 5-8       | 5-8   |          |  |

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C

#### UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | MAX/MIN COMPONENT REACTIONS |        |            |       |        |       |
|----|-------------------|-----------------------------|--------|------------|-------|--------|-------|
|    |                   | SNOW                        | LIVE   | PERM. LIVE | WIND  | DEAD   | SOIL  |
| C  | 171               | 130 / 0                     | 8 / 0  | 0 / 0      | 0 / 0 | 33 / 0 | 0 / 0 |
| B  | 374               | 233 / 0                     | 56 / 0 | 0 / 0      | 0 / 0 | 85 / 0 | 0 / 0 |
| D  | 109               | 25 / 0                      | 48 / 0 | 0 / 0      | 0 / 0 | 37 / 0 | 0 / 0 |

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

#### 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)

| MEMB. | CHORDS                    |                           | WEBS                      |                           |
|-------|---------------------------|---------------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) |
| FR-TO |                           |                           |                           |                           |
| A-B   | 0 / 20                    | -102.1 -102.1 0.13 (1)    | 10.00                     |                           |
| B-F   | -48 / 0                   | -102.1 -102.1 0.12 (3)    | 8.25                      |                           |
| F-C   | 0 / 6                     | -102.1 -102.1 0.40 (1)    | 10.00                     |                           |
| B-E   | 0 / 0                     | -38.5 -38.5 0.25 (1)      | 10.00                     |                           |
| E-D   | 0 / 0                     | -38.5 -38.5 0.30 (1)      | 10.00                     |                           |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 29.0 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.0 PSF  
TOTAL LOAD = 52.5 PSF

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2015  
- CSA 086-14  
- TPIC 2014

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = 1/360 (0.15")  
CALCULATED VERT. DEFL. (LL) = 1/800 (0.07")  
ALLOWABLE DEFL. (TL) = 1/360 (0.15")  
CALCULATED VERT. DEFL. (TL) = 1/523 (0.12")

CSI: TC=0.40/1.00 (C-F:1), BC=0.30/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SB=0.25/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.30 (B) (INPUT = 0.90)  
JSI METAL=0.08 (B) (INPUT = 1.00)



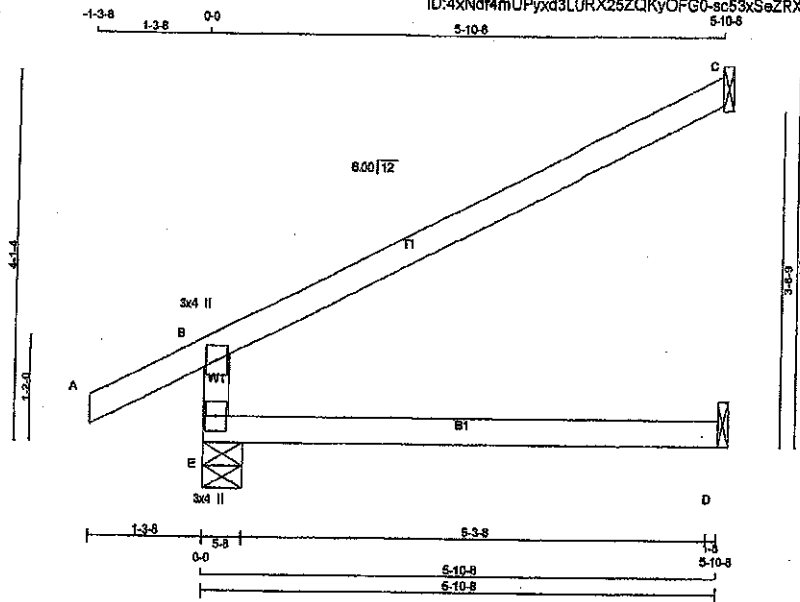
DRWG NO. TAM 1740729  
STRUCTURAL  
COMPONENT ONLY

|               |            |          |     |             |           |          |    |
|---------------|------------|----------|-----|-------------|-----------|----------|----|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | PRESTON 3 | DRWG NO. | J6 |
| 200444-401156 | J6         | 14       | 1   | TRUSS DESC. |           |          |    |

Tamarack Roof Truss, Burlington

Version 8.230 9 Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:29:00 2019 Page 1  
ID:4xNd4mUPyxd3LURX25ZQKyOFG0-sc53xSeZRxbVpLQuC3pARqx5QIL\_hhH0ux8RCzo5IX

Scale = 1/23.6



TOTAL WEIGHT = 14 X 17 = 235 lb

#### LUMBER

| N. L. G. A. RULES | SIZE | LUMBER |
|-------------------|------|--------|
| CHORDS            | 2x4  | No.2   |
| E - B             | 2x4  | DRY    |
| A - C             | 2x4  | DRY    |
| E - D             | 2x4  | DRY    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| B       | TMV+p  | MT20 | 3.0 | 4.0 |   |
| E       | BMV/p  | MT20 | 3.0 | 4.0 |   |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| E  | 848                     | 0    | 848                             | 0    | 5-8       | 5-8      |
| C  | 225                     | 0    | 225                             | 0    | 1-8       | 1-8      |
| D  | 93                      | 0    | 119                             | 0    | 1-8       | 1-8      |

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|-----------|----------|-------------------------------|------|------------|------|-------|------|
| JT        | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| E         | 473      | 282/0                         | 72/0 | 0/0        | 0/0  | 109/0 | 0/0  |
| C         | 154      | 128/0                         | 0/0  | 0/0        | 0/0  | 28/0  | 0/0  |
| D         | 85       | 0/0                           | 51/0 | 0/0        | 0/0  | 34/0  | 0/0  |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                  | WEBS               |       |                           |              |
|--------|---------------------------|---------------------------|------------------|--------------------|-------|---------------------------|--------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CS1 (LC) |
| FR-TO  |                           | FROM TO                   |                  |                    | FR-TO |                           |              |
| E-B    | -513/0                    | 0.0                       | 0.0              | 0.22 (3)           | 7.81  |                           |              |
| A-B    | 0/31                      | -102.1                    | -102.1           | 0.13 (1)           | 10.00 |                           |              |
| B-C    | -34/0                     | -102.1                    | -102.1           | 0.60 (1)           | 6.25  |                           |              |
| E-D    | 0/0                       | -98.5                     | -98.5            | 0.22 (3)           | 10.00 |                           |              |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 29.0 | PSF |
|            | DL = 6.0  | PSF |
| BOT CH.    | LL = 10.5 | PSF |
|            | DL = 7.0  | PSF |
| TOTAL LOAD | = 52.5    | PSF |

##### SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 8 OF NBCC 2010, NBC 2012
- CSA 088-06, CSA 088-14
- TPIG 2011, TPIG 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/942 (0.07")

CS1: TO=0.60/1.00 (B-C:1), BC=0.22/1.00 (D-E:3), WB=0.00/1.00 (H/B:0), SS=0.26/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (E) (INPUT = 0.90)  
JSI METAL= 0.14 (B) (INPUT = 1.00)

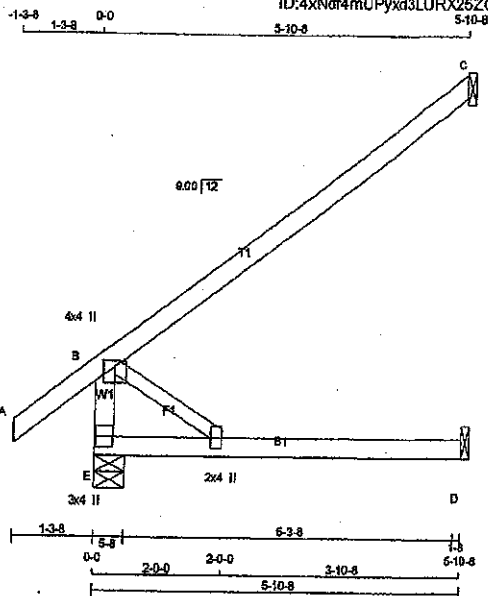


DRWG NO. TAM 17902730  
STRUCTURAL  
COMPONENT ONLY

|                                  |                         |                      |                 |                               |             |                       |
|----------------------------------|-------------------------|----------------------|-----------------|-------------------------------|-------------|-----------------------|
| JOB NAME<br><b>200444-401156</b> | TRUSS NAME<br><b>J9</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Preston 3</b> | TRUSS DESC. | DRWG NO.<br><b>J9</b> |
|----------------------------------|-------------------------|----------------------|-----------------|-------------------------------|-------------|-----------------------|

Tamarack Roof Truss, Burlington

Version B.230 9 Nov 17 2019 Mitek Industries, Inc. Tue Feb 5 20:29:01 2019 Page 1  
ID:4xNdf4mUPyxdl3LURX26ZQKyOFG0-KoeS8ofBCqjNMzwdSva2leN6qqeVj8xQFXhhtzo5fW



Scale = 1/32"

TOTAL WEIGHT = 8 X 20 = 160 lb

#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| E  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| F  | NP+p   | MT20   | 2.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| E  | VERT 848                | DOWN 848                        | 5-8       | 5-8      |
| C  | VERT 225                | DOWN 225                        | 1-8       | 1-8      |
| D  | VERT 98                 | DOWN 122                        | 1-8       | 1-8      |

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS | SNOW   | LIVE  | PERM. LIVE | WIND    | DEAD  | SOIL  |
|----|-----------|-------------------------------|--------|-------|------------|---------|-------|-------|
| E  | 473       | 283 / 0                       | 71 / 0 | 0 / 0 | 0 / 0      | 108 / 0 | 0 / 0 | 0 / 0 |
| C  | 154       | 128 / 0                       | 0 / 0  | 0 / 0 | 0 / 0      | 28 / 0  | 0 / 0 | 0 / 0 |
| D  | 87        | 0 / 0                         | 52 / 0 | 0 / 0 | 0 / 0      | 35 / 0  | 0 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX  | MAX. UNBRACED LENGTH | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|--------|----------|---------------------------|---------------------------|----------|----------------------|-------|-------|---------------------------|----------------------|
| FR-TO  |          |                           |                           |          |                      | FR-TO |       |                           |                      |
| E-B    | -516 / 0 | 0.0                       | 0.0                       | 0.18 (3) | 7.81                 |       |       |                           |                      |
| A-B    | 0 / 42   | -102.1                    | -102.1                    | 0.14 (1) | 10.00                |       |       |                           |                      |
| B-C    | -45 / 0  | -102.1                    | -102.1                    | 0.80 (1) | 6.25                 |       |       |                           |                      |
| E-D    | 0 / 0    | -38.5                     | -38.5                     | 0.22 (3) | 10.00                |       |       |                           |                      |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 29.0 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 10.5 PSF |
| DL         | = 7.0 PSF  |
| TOTAL LOAD | = 52.5 PSF |

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2015
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.05")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (TL) =  $L/878$  (0.08")

CSI: TO = 0.60 / 1.00 (B-C:1), BC = 0.22 / 1.00 (D-E:3), WB = 0.00 / 1.00 (N/A:0), SS = 0.23 / 1.00 (B-C:1)

DOL LUMBER = 1.00 NAIL = 1.00 LS BEND = 1.10

COMP = 1.10 SHEAR = 1.10 TENS = 1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

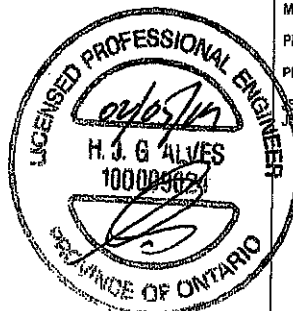
##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR (PSI) | SECTION (PL) |
|-------|------------|-------------|--------------|
| MT20  | 650        | 371         | 1747         |
|       | 786        | 1987        | 1673         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP = 0.39 (B) (INPUT = 0.80)  
SI METAL = 0.10 (B) (INPUT = 1.00)



DRWG NO. TAM **7402731**  
STRUCTURAL  
COMPONENT ONLY



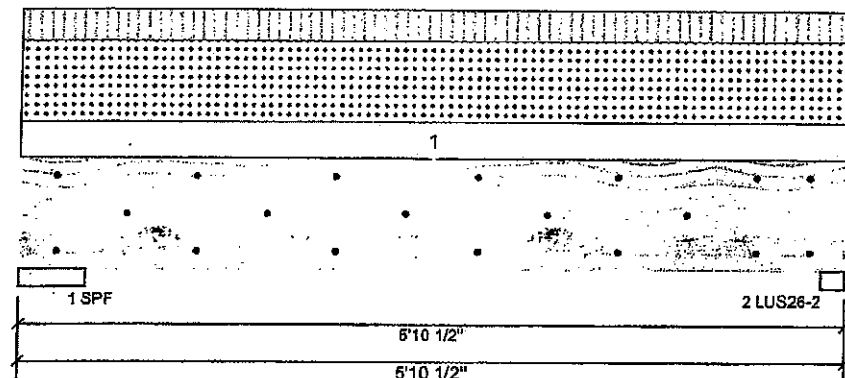
isDesign™

Client: Greenpark Homes  
 Project: Preston 3  
 Address: Caledon

Date: 2019-02-05  
 Designer: Brian  
 Job Name: Lamberts Lane Homes Corp.  
 Project #: 200444

**BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level



### Member Information

|                     |        |                |                      |
|---------------------|--------|----------------|----------------------|
| Type:               | Girder | Application:   | Floor (Residential)  |
| Plies:              | 2      | Design Method: | LSD                  |
| Moisture Condition: | Dry    | Building Code: | NBCC 2015 / OBC 2012 |
| Deflection LL:      | 360    | Load Sharing:  | No                   |
| Deflection TL:      | 360    | Deck:          | Not Checked          |
| Importance:         | Normal | Vibration:     | Not Checked          |

### Unfactored Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 237  | 281  | 628  | 0    |
| 2   | 215  | 254  | 667  | 0    |

### Bearings and Factored Reactions

| Bearing     | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb.     |
|-------------|--------|-------------------|----------------|---------------|
| 1 - SPF     | 6.500" | 15% 351 / 1176    | 1527 L         | 1.25D+1.5S +L |
| 2 - LUS26-2 | 2.000" | 37% 318 / 1065    | 1383 L         | 1.25D+1.5S +L |

### Analysis Results

| Analysis     | Actual          | Location | Allowed       | Capacity    | Comb.         | Case    |
|--------------|-----------------|----------|---------------|-------------|---------------|---------|
| Moment       | 1789 ft-lb      | 3'1"     | 6039 ft-lb    | 0.296 (30%) | 1.25D+1.5S +L | L       |
| Unbraced     | 1789 ft-lb      | 3'1"     | 5183 ft-lb    | 0.345 (36%) | 1.25D+1.5S +L | L       |
| Shear        | 1331 lb         | 1'2"     | 3884 lb       | 0.334 (33%) | 1.25D+1.5S +L | L       |
| Perm Def in. | 0.006 (L/10287) | 3'1"     | 0.179 (L/360) | 0.030 (3%)  | D             | Uniform |
| LL Defl inch | 0.017 (L/3876)  | 3'1"     | 0.179 (L/360) | 0.090 (9%)  | S+0.5L        | L       |
| TL Defl inch | 0.023 (L/2815)  | 3'1"     | 0.179 (L/360) | 0.130 (13%) | D+S+0.5L      | L       |

### Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.



DWG NO. TAM 7902732  
 STRUCTURAL  
 COMPONENT ONLY 1/2

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live   | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|--------|--------|-------|----------|
| 1  | Uniform   |          | 7-0-0      | Near Face | 13 PSF | 11 PSF | 29 PSF | 0 PSF |          |

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Manufacturer Info      | TAMARACK LUMBER<br>3255 NORTH SERVICE RD, ON<br>CANADA<br>(805) 335-1115 |
| <br>ALPHA LUMBER GROUP |                                                                          |

This design is valid until 2021-12-11





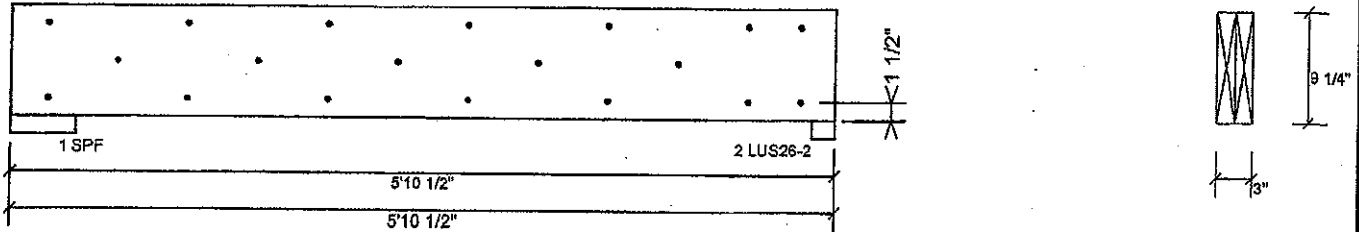
isDesign™

Client: Greenpark Homes  
Project: Preston 3  
Address: Caledon

Date: 2019-02-05  
Designer: Brian  
Job Name: Lamberts Lane Homes Corp.  
Project #: 200444

**BM2 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

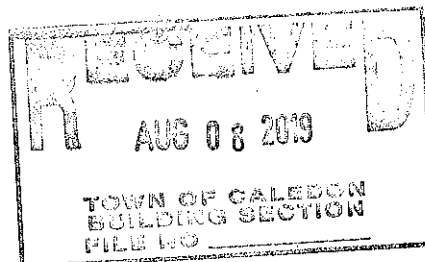
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6"

|                          |              |
|--------------------------|--------------|
| Capacity                 | 64.6 %       |
| Load                     | 247.6 PLF    |
| Yield Limit per Foot     | 383.4 PLF    |
| Yield Limit per Fastener | 127.8 lb.    |
| Yield Mode               | 9            |
| Edge Distance            | 1 1/2"       |
| Min. End Distance        | 3"           |
| Load Combination         | 1.25D+1.5S+L |
| Duration Factor          | 1.00         |



DWG NO. TAM 17902752  
STRUCTURAL  
COMPONENT ONLY 3/2

#### Manufacturer Info

TAMARACK LUMBER  
3255 NORTH SERVICE RD, ON  
CANADA  
(905) 335-1115



This design is valid until 2021-12-11



# LUL/LUS/LJS/HUS/HHUS/HGUS

**SIMPSON**  
**Strong-Tie**

## Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of  
a) easier installation, b) higher capacities, c) lower installed  
cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 258–259.

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

### Installation:

- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1 1/4" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

### Options:

- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



Double-Shear  
Nailing  
Top View



Double-Shear  
Nailing  
Side View;  
Do not  
bend tab



Double-Shear  
Nailing Side View  
(available on  
some models)  
U.S. Patent 5,603,580



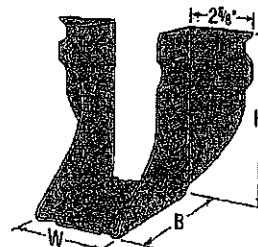
✓ LUS28



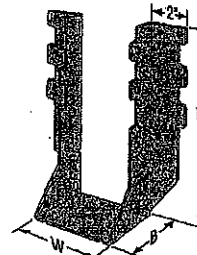
LU26L



✓ HUS210  
(HUS26, HUS28,  
and HHUS similar)



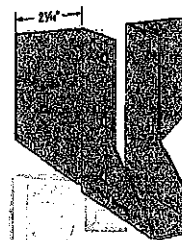
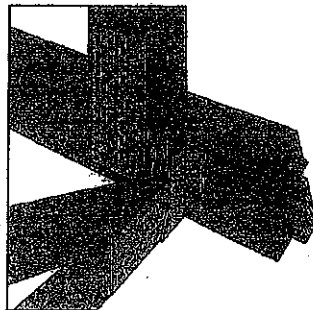
✓ HGUS28-2



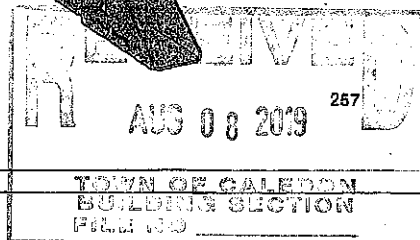
✓ HHUS210-2

Plated Truss Connectors

Typical HUS26  
Installation  
with Reduced  
Heel Height  
(Truss Designer  
to provide  
fastener quantity  
for connecting  
multiple members  
together)



LJS26DS





**LUL/LUS/LJS/HUS/HHUS/HGUS****HHUS/HGUS**

See Hanger Options information on pp. 125–127.

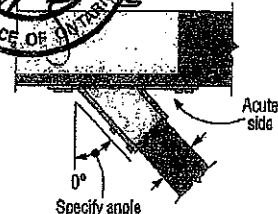
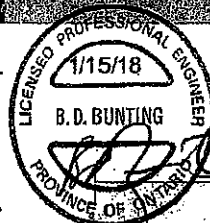
**HHUS — Sloped and/or Skewed Seat**

- 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 0.62 of the table value
- The joist must be bevel-cut 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 | 0.82 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          | 0.46 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.

| Model No.       | Ga. | Dimensions (in.) |       |       |                             | Fasteners |                  | Factored Resistance     |                         |                         |                         |
|-----------------|-----|------------------|-------|-------|-----------------------------|-----------|------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                 |     | W                | H     | B     | d <sub>o</sub> <sup>2</sup> | Header    | Joist            | S-P-T                   |                         | S-P-T                   |                         |
|                 |     |                  |       |       |                             |           |                  | Uplift                  | Normal                  | Uplift                  | Normal                  |
|                 |     |                  |       |       |                             |           |                  | (K <sub>u</sub> = 1.13) | (K <sub>n</sub> = 1.90) | (K <sub>u</sub> = 1.13) | (K <sub>n</sub> = 1.90) |
| lb.             | lb. | lb.              | lb.   | lb.   | lb.                         | lb.       | lb.              |                         |                         |                         |                         |
| KN              | KN  | KN               | KN    | KN    | KN                          | KN        | KN               |                         |                         |                         |                         |
| Single 2x Sizes |     |                  |       |       |                             |           |                  |                         |                         |                         |                         |
| LUS24           | 18  | 1 1/8            | 3 1/4 | 1 1/4 | 2 1/4                       | (4) 10d   | (2) 10d          | 710                     | 1825                    | 645                     | 1155                    |
|                 |     |                  |       |       |                             |           |                  | 360                     | 1020                    | 320                     | 725                     |
|                 |     |                  |       |       |                             |           |                  | 720                     | 1805                    | 645                     | 1140                    |
| LU24L           | 22  | 1 1/8            | 3     | 1 1/4 | 2 1/4                       | (4) 10d   | (2) 10d x 1 1/2" | 360                     | 1020                    | 320                     | 725                     |
| LU26L           | 22  | 1 1/8            | 5     | 1 1/4 | 4 1/4                       | (6) 10d   | (4) 10d x 1 1/2" | 720                     | 1805                    | 645                     | 1140                    |
| LUS26           | 18  | 1 1/8            | 4 1/4 | 1 1/4 | 3 1/4                       | (4) 10d   | (4) 10d          | 1420                    | 2170                    | 1290                    | 1630                    |
|                 |     |                  |       |       |                             |           |                  | 2705                    | 4940                    | 2085                    | 3875                    |
|                 |     |                  |       |       |                             |           |                  | 2055                    | 4265                    | 1460                    | 4115                    |
| HUS26           | 16  | 1 1/8            | 5 1/4 | 3     | 3 1/4                       | (14) 16d  | (6) 16d          | 2895                    | 6625                    | 2685                    | 5700                    |
| LJS26DS         | 18  | 1 1/8            | 5     | 3 1/4 | 4 1/4                       | (10) 16d  | (6) 16d          | 2055                    | 4265                    | 1460                    | 4115                    |
| HGUS26          | 12  | 1 1/8            | 5 1/4 | 5     | 4 1/4                       | (20) 16d  | (8) 16d          | 2895                    | 6625                    | 2685                    | 5700                    |
| LU28L           | 20  | 1 1/8            | 6 1/4 | 1 1/4 | 5 1/4                       | (8) 10d   | (6) 10d x 1 1/2" | 1140                    | 2185                    | 1020                    | 1550                    |
|                 |     |                  |       |       |                             |           |                  | 1420                    | 2520                    | 1290                    | 1790                    |
|                 |     |                  |       |       |                             |           |                  | 3605                    | 5365                    | 2675                    | 4345                    |
| LUS28           | 18  | 1 1/8            | 6 1/4 | 1 1/4 | 3 1/4                       | (8) 10d   | (4) 10d          | 1420                    | 2520                    | 1290                    | 1790                    |
| HJS28           | 18  | 1 1/8            | 7 1/4 | 3     | 6 1/4                       | (22) 16d  | (8) 16d          | 3605                    | 5365                    | 2675                    | 4345                    |
| HGUS28          | 12  | 1 1/8            | 7 1/4 | 5     | 6 1/4                       | (36) 16d  | (12) 16d         | 3310                    | 7675                    | 3310                    | 6900                    |
| LU210L          | 20  | 1 1/8            | 8     | 1 1/4 | 7 1/4                       | (10) 10d  | (6) 10d x 1 1/2" | 1140                    | 2495                    | 1020                    | 1770                    |
|                 |     |                  |       |       |                             |           |                  | 1420                    | 2785                    | 1290                    | 2210                    |
|                 |     |                  |       |       |                             |           |                  | 3605                    | 5365                    | 2675                    | 4345                    |
| LUS210          | 18  | 1 1/8            | 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. d<sub>o</sub> 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-N-107830N and/or see installation notes.

5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

## Face-Mount Hangers

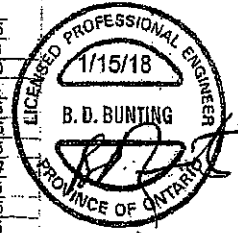
**SIMPSON**  
**Strong-Tie**

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

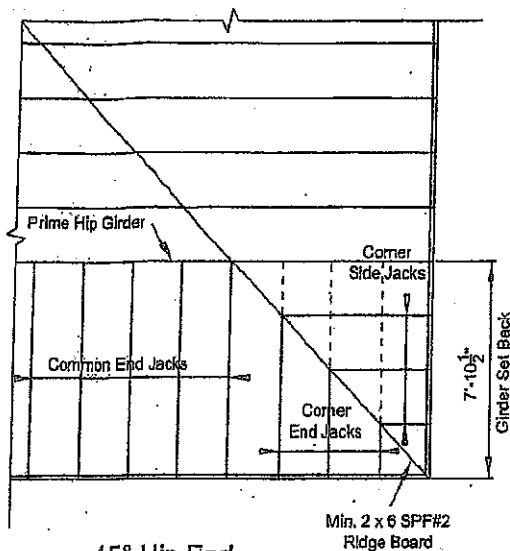
These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

| Model No.          | Ga. | Dimensions (in.) |        |   |                             | Fasteners |          | Factored Resistance |        |                         |                         |
|--------------------|-----|------------------|--------|---|-----------------------------|-----------|----------|---------------------|--------|-------------------------|-------------------------|
|                    |     | W                | H      | B | d <sub>a</sub> <sup>1</sup> | Header    | Joist    | D-Flt.              |        | S-P-F                   |                         |
|                    |     |                  |        |   |                             |           |          | Uplift              | Normal | Uplift                  | Normal                  |
|                    |     |                  |        |   |                             |           |          | (lb.)               | (lb.)  | (K <sub>0</sub> = 1.15) | (K <sub>0</sub> = 1.00) |
|                    |     |                  |        |   |                             |           |          | lb.                 | lb.    | lb.                     | lb.                     |
|                    |     |                  |        |   |                             |           |          | kg                  | kg     | kg                      | kg                      |
| Double 2x Sizes    |     |                  |        |   |                             |           |          |                     |        |                         |                         |
| LUS24-2            | 18  | 3 3/8            | 3 3/8  | 2 | 1 1/2                       | (4) 16d   | (2) 18d  | 835                 | 2020   | 590                     | 1435                    |
| LUS26-2            | 18  | 3 3/8            | 4 3/8  | 2 | 4                           | (4) 16d   | (4) 18d  | 1720                | 2595   | 1545                    | 1920                    |
| HUS26-2            | 14  | 3 3/8            | 5 3/8  | 3 | 3 3/8                       | (14) 16d  | (8) 18d  | 2850                | 7335   | 2065                    | 5205                    |
| HGUS26-2           | 12  | 3 3/8            | 5 3/8  | 4 | 4 1/2                       | (20) 16d  | (8) 18d  | 4385                | 8950   | 3110                    | 6355                    |
| LUS28-2            | 18  | 3 3/8            | 7      | 2 | 4                           | (8) 16d   | (4) 18d  | 1720                | 3325   | 1545                    | 2575                    |
| HUS28-2            | 14  | 3 3/8            | 7 3/8  | 5 | 8 1/2                       | (22) 16d  | (8) 18d  | 3765                | 8940   | 2675                    | 6345                    |
| HGUS28-2           | 12  | 3 3/8            | 7 3/8  | 6 | 6 1/2                       | (30) 16d  | (12) 18d | 6070                | 12980  | 4310                    | 9215                    |
| LUS210-2           | 18  | 3 3/8            | 9      | 2 | 6                           | (8) 16d   | (8) 18d  | 2580                | 4500   | 2320                    | 3195                    |
| HUS210-2           | 14  | 3 3/8            | 9 3/8  | 3 | 8                           | (30) 16d  | (10) 18d | 4670                | 9680   | 4235                    | 7000                    |
| HGUS210-2          | 12  | 3 3/8            | 9 3/8  | 4 | 8 1/2                       | (46) 16d  | (18) 18d | 6840                | 14015  | 4855                    | 10270                   |
| Triple 2x Sizes    |     |                  |        |   |                             |           |          |                     |        |                         |                         |
| HGUS28-3           | 12  | 4 1/8            | 5 1/2  | 4 | 4 1/2                       | (20) 16d  | (8) 18d  | 4385                | 8950   | 3110                    | 6355                    |
| HGUS28-3           | 12  | 4 1/8            | 7 1/2  | 4 | 6 1/2                       | (36) 16d  | (12) 18d | 6070                | 12980  | 4310                    | 9215                    |
| HUS210-3           | 14  | 4 1/8            | 9      | 3 | 7 1/2                       | (30) 16d  | (10) 18d | 4670                | 9670   | 4235                    | 6865                    |
| HGUS210-3          | 12  | 4 1/8            | 9 1/2  | 4 | 8 1/2                       | (46) 16d  | (15) 18d | 6840                | 14845  | 4855                    | 10400                   |
| Quadruple 2x Sizes |     |                  |        |   |                             |           |          |                     |        |                         |                         |
| HGUS28-4           | 12  | 6 3/8            | 5 3/8  | 4 | 4 1/2                       | (20) 16d  | (8) 18d  | 4385                | 8950   | 3110                    | 6355                    |
| HGUS28-4           | 12  | 6 3/8            | 7 3/8  | 4 | 6 1/2                       | (36) 16d  | (12) 18d | 6070                | 12980  | 4310                    | 9215                    |
| HUS210-4           | 14  | 6 3/8            | 8 3/8  | 3 | 7 1/2                       | (30) 16d  | (10) 18d | 4670                | 10155  | 4235                    | 7210                    |
| HGUS210-4          | 12  | 6 3/8            | 9 3/8  | 4 | 8 1/2                       | (46) 16d  | (15) 18d | 6840                | 14645  | 4855                    | 10400                   |
| HGUS212-4          | 12  | 6 3/8            | 10 3/8 | 4 | 10 1/2                      | (56) 16d  | (20) 18d | 7640                | 14995  | 5425                    | 10645                   |
| HGUS214-4          | 12  | 6 3/8            | 12 3/8 | 4 | 11 3/8                      | (66) 16d  | (22) 18d | 10130               | 16400  | 7195                    | 11645                   |
| 4x Sizes           |     |                  |        |   |                             |           |          |                     |        |                         |                         |
| LUS48              | 18  | 3 3/8            | 4 3/8  | 2 | 3 3/8                       | (4) 16d   | (4) 18d  | 1720                | 2595   | 1545                    | 1920                    |
| HUS48              | 14  | 3 3/8            | 5 3/8  | 3 | 2 1/2                       | (14) 16d  | (8) 18d  | 2540                | 7335   | 2065                    | 5205                    |
| HGUS48             | 12  | 3 3/8            | 5 3/8  | 4 | 4 1/2                       | (20) 16d  | (8) 18d  | 4385                | 8950   | 3110                    | 6355                    |
| LUS48              | 18  | 3 3/8            | 6 3/8  | 2 | 3 3/8                       | (8) 16d   | (4) 18d  | 1720                | 3325   | 1545                    | 2575                    |
| HUS48              | 14  | 3 3/8            | 7 3/8  | 3 | 6 1/2                       | (22) 16d  | (8) 18d  | 3765                | 8940   | 2675                    | 6345                    |
| HGUS48             | 12  | 3 3/8            | 7 3/8  | 4 | 6 1/2                       | (36) 16d  | (12) 18d | 6070                | 12980  | 4310                    | 9215                    |
| LUS410             | 18  | 3 3/8            | 8 3/8  | 2 | 5 3/8                       | (8) 16d   | (8) 18d  | 2580                | 4500   | 2320                    | 3195                    |
| HGUS410            | 12  | 3 3/8            | 9      | 4 | 8 3/8                       | (46) 16d  | (18) 18d | 6840                | 14015  | 4855                    | 10270                   |
| HGUS412            | 12  | 3 3/8            | 10 3/8 | 4 | 10 3/8                      | (56) 16d  | (20) 18d | 7640                | 14995  | 5425                    | 10645                   |
| HGUS414            | 12  | 3 3/8            | 12 3/8 | 4 | 11 3/8                      | (66) 16d  | (22) 18d | 10130               | 16400  | 7195                    | 11645                   |

See footnotes  
on p. 268.



Plated Truss Connectors



**45° Hip End**

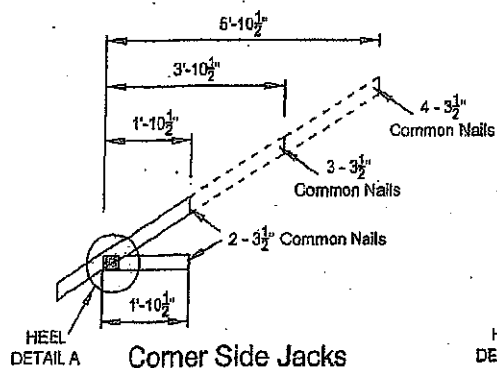
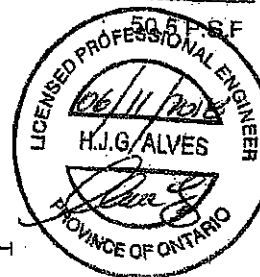
### LUMBER SPECIFICATION

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

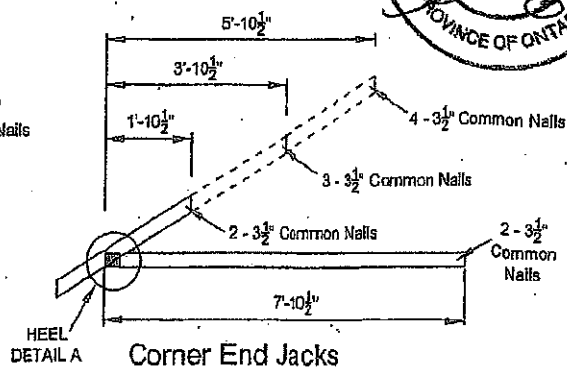
### DESIGN LOAD

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

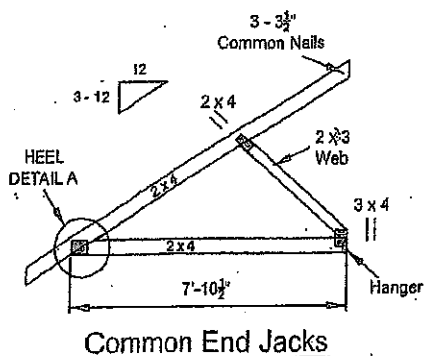
TOTAL LOAD



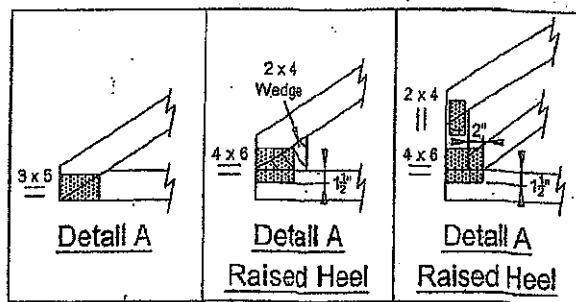
**Corner Side Jacks**



**Corner End Jacks**

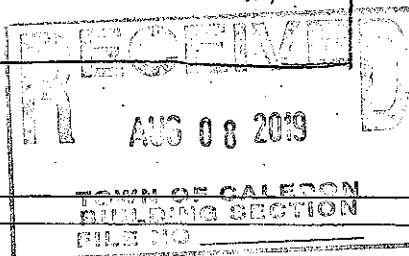


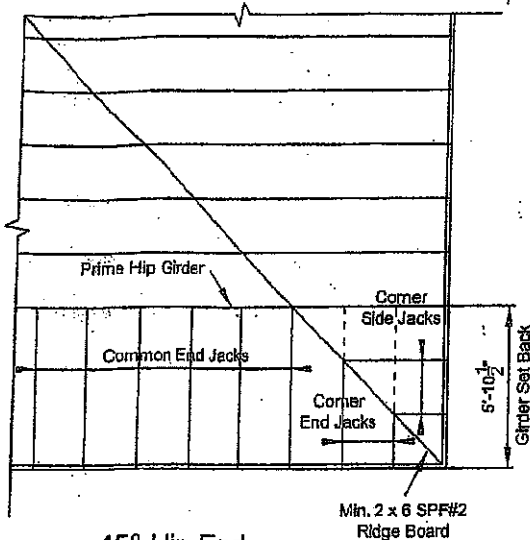
**Common End Jacks**



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

T-1800217





45° Hip End

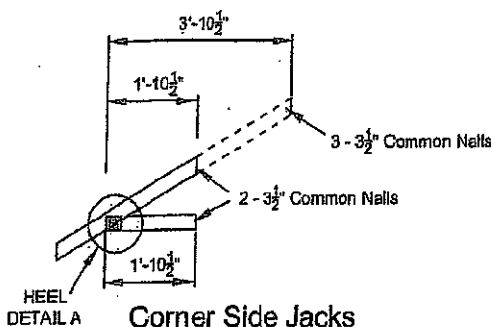
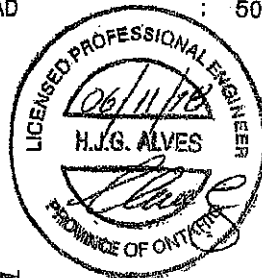
### LUMBER SPECIFICATION

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

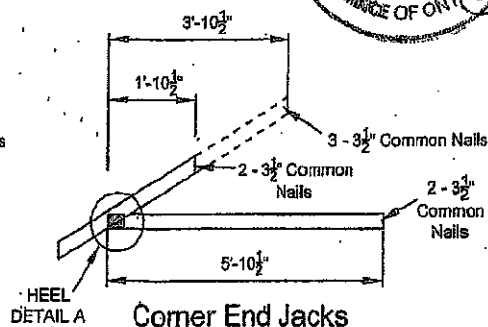
### DESIGN LOAD

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.

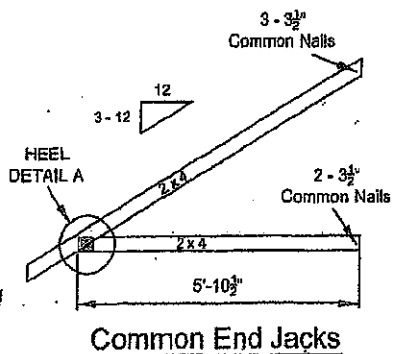
TOTAL LOAD : 50.5 P.S.F



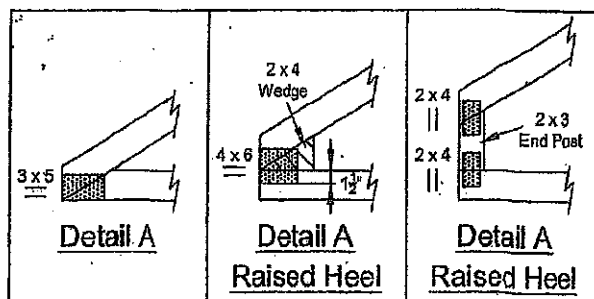
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

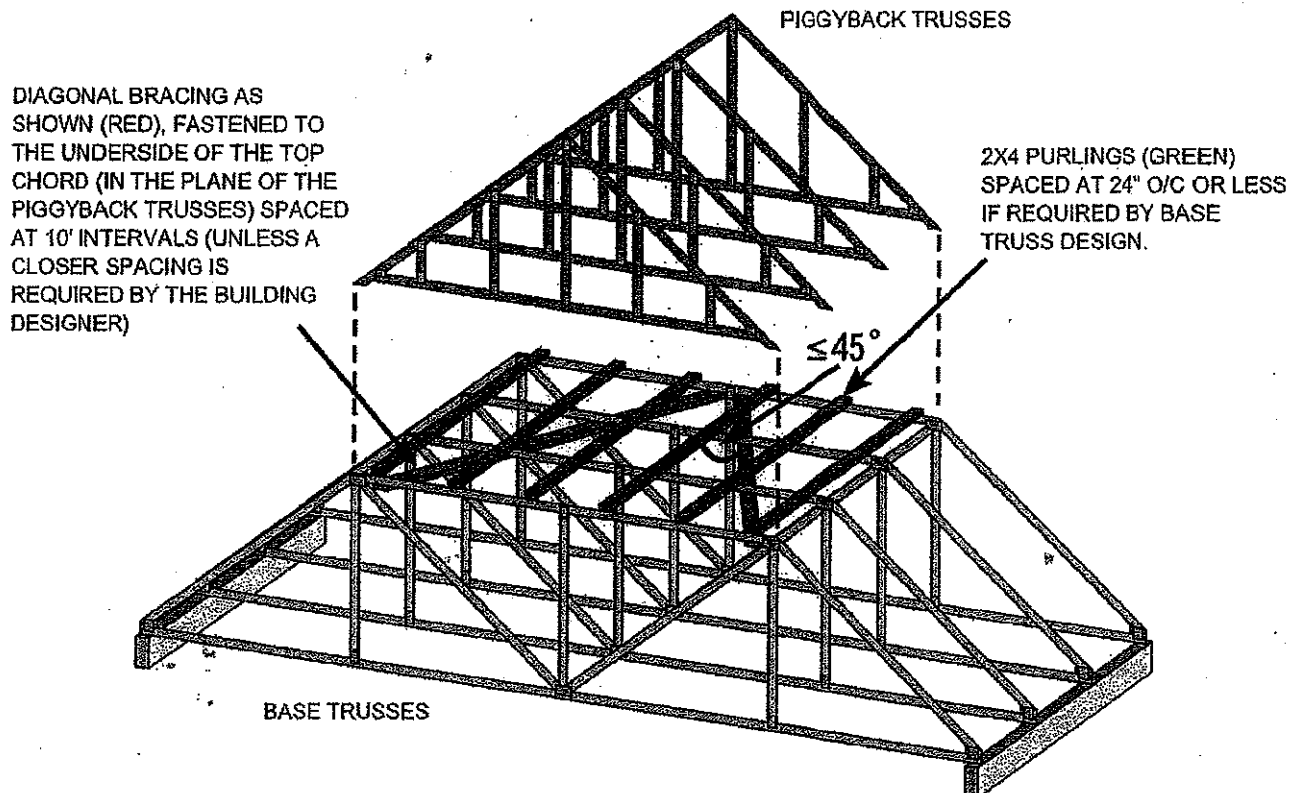
T-1800216

Overview:

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

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

Detail:



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

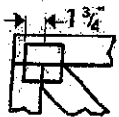
SKETCH FROM BCSI-CANADA 2013

Disclaimer:

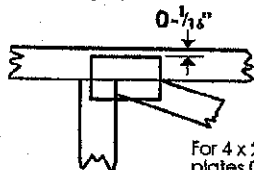
OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in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

## Symbols

### PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0 1/8" from outside edge of truss.



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

\*Plate location details available in MiTek software or upon request.

### PLATE SIZE

4 x 4

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

### LATERAL BRACING LOCATION



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

### BEARING

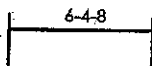


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

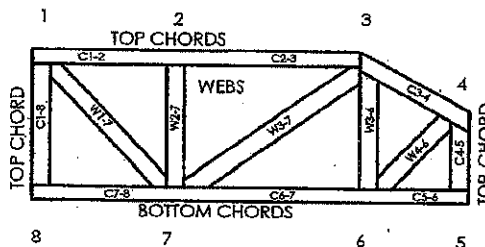
### Industry Standards:

TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses  
DSB-89: Design Standard for Bracing  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System



dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



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

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

### PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

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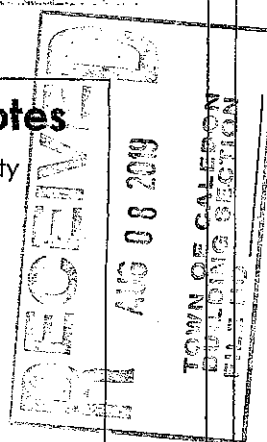
**MiTek**  
POWER TO PERFORM.™

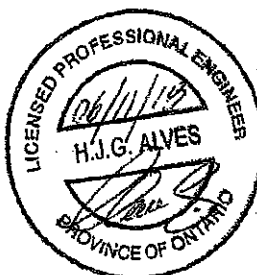
MiTek Engineering Reference Sheet: MII-7473C rev. 10-08

## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or putlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.





## Alves Engineering Services Inc.

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

### RESPONSABILITIES

1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components

2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.

3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.

4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.

5- It is the manufactures responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

### SPECIFICATIONS

1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.

2- Lumber is to be the sizes and grade specified on the truss drawing.

3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.

4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings

5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.

6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)

7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.

8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900218

Feb 09, 2018