

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

RECEIVED  
AUG 23 2019

TOWN OF CALEDON  
BUILDING SECTION  
FILE NO \_\_\_\_\_

STD HEEL JACKS 7-1/4"  
DROP FROM TOP PLATE  
TO BOTTOM OF FASCIA

TRUSS PROFILES TO BE VERIFIED BY  
BUILDING DESIGNER

ALL CONVENTIONAL ROOF FRAMING TO  
CONFORM WITH PART 9 OF THE OBC.  
ROOF RAFTERS THAT MEET OR CROSS OVER  
TRUSSES ARE TO BE 2"x4"SPF@24"O.C.  
WITH 2"x4"SPF VERTICAL POST TO THE  
TRUSS UNDER AT EACH CROSS POINT.  
POSTS LONGER THAN 6' TO BE Laterally  
BRACED SO THAT THE DISTANCE  
BETWEEN END POINTS AND BETWEEN ROWS  
OF BRACING DOES NOT EXCEED 6'.

TRUSSES DESIGNED CONFORM WITH:  
ONTARIO BUILDING CODE (2012)  
OCCUPANCY: RESIDENTIAL | PART: 9

DESIGN LOADS:  
CITY: CALEDON  
G.S.L.= 37.6 psf  
TC DL= 6 psf  
BC LL= 30.50 psf  
BC DL= 7.00 psf

NOTES:  
FIN. OH.: 12"  
HEEL TYPE: R.T.M. CANT.  
EXT. WALLS: 2X6  
CLAD. TYPE 1: BRICK/5"  
CLAD. TYPE 2: SIDING/0"  
FSC SIZE: 2X6  
SHEATHING: ASPHALT SHINGLE

IF DESIGNED COMMERCIAL, REFER TO  
SEALED TRUSS DOCS FOR UPLIFT DESIGN

HARDWARE:

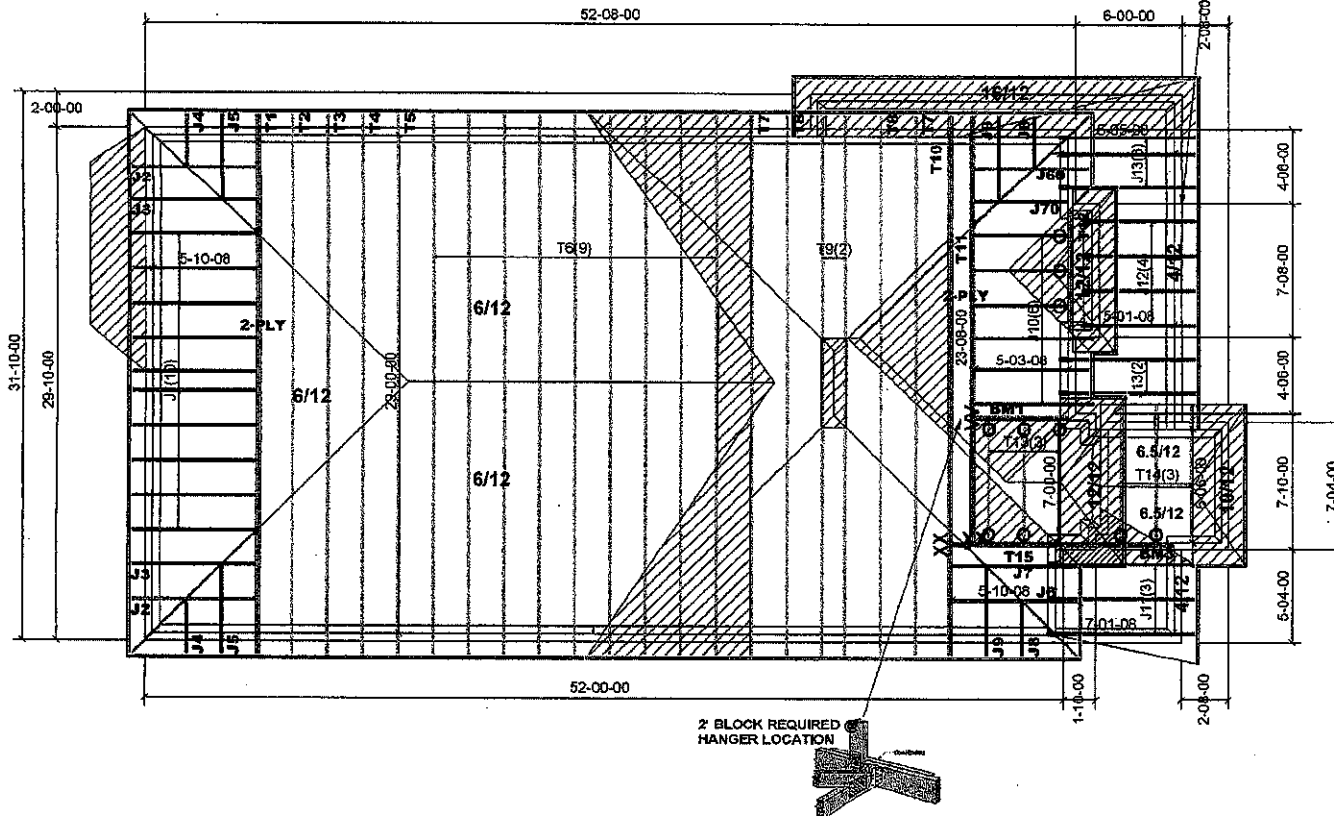
LUS26-2 (VV)  
HGUS26-2 (XX)  
LUS24 (O)

CONV FRM BY OTHERS

T- 180737

COMMENTS:

BM1-3: 2-2"x10" SPF #2  
9/12 PITCH UNLESS  
NOTED OTHERWISE



APPLICANT COPY

M12112

|  |                                                                                |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                |
|--|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Job Track: <b>50120</b><br>Plan Log: <b>200165</b><br>Layout ID: <b>400359</b> | Builder / Location:<br><b>Greenpark / Caledon</b><br>Project: <b>Lamberts Lane Home Corp.PH2.</b><br>Date: <b>4/5/2019</b> Designer: <b>Brian/Jane</b> | Model / Elevation:<br><b>Millwood 4A / Elv 1 Lot 58</b><br>THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE<br>Milek ver 8.2.3.229 |
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## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: Greenpark  
 Project: Lamberts Lane Home Corp.  
 Location: Caledon  
 Model: Millwood 4A  
 Lot #: 58  
 Elevation: 1

Job Track: 50120  
 PlanLog: 200165  
 Layout ID: 400359  
 Ref #  
 Page: 1 of 3  
 Date: 04/05/2019  
 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  | 6 /12   | 29-00-00 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 258.03<br>162.67  |                     |                    |
|         | 1          | T2<br>Hip         | 6 /12   | 29-00-00 | 5-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 115.16<br>72.50   |                     |                    |
|         | 1          | T3<br>Hip         | 6 /12   | 29-00-00 | 6-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 120.88<br>77.33   |                     |                    |
|         | 1          | T4<br>Hip         | 6 /12   | 29-00-00 | 7-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 117.98<br>73.83   |                     |                    |
|         | 1          | T5<br>Hip         | 6 /12   | 29-00-00 | 8-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 126.32<br>80.67   |                     |                    |
|         | 9          | T6<br>Common      | 6 /12   | 29-00-00 | 8-05-00  | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1094.45<br>678.00 |                     |                    |
|         | 2          | T7<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           | 260.37<br>165.00  |                     |                    |
|         | 2          | T8<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           | 280.92<br>179.67  |                     |                    |
|         | 2          | T9<br>Hip         | 9 /12   | 29-00-00 | 10-05-02 | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 278.58<br>173.33  |                     |                    |
|         | 1<br>2-ply | T10<br>Hip Girder | 9 /12   | 29-00-00 | 5-11-06  | 2 x 6          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 332.07<br>203.67  |                     |                    |
|         | 1<br>2-ply | T11<br>Hip Girder | 9 /12   | 23-08-00 | 5-05-14  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 225.42<br>139.67  |                     |                    |
|         | 1<br>2-ply | T12<br>Hip Girder | 9 /12   | 6-10-00  | 3-01-00  | 2 x 4          |                           | 1-06-04<br>1-06-04           | 59.93<br>42.67    |                     |                    |
|         | 3          | T13<br>Common     | 9 /12   | 7-00-00  | 4-01-12  | 2 x 4          |                           | 1-06-04<br>1-06-04           | 87.38<br>60.00    |                     |                    |
|         | 3          | T14<br>Common     | 6.5 /12 | 6-06-00  | 2-10-05  | 2 x 4          | 1-05-00<br>1-05-00        | 7-08<br>7-08                 | 67.61<br>45.00    |                     |                    |



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 Builder: Greenpark  
 Project: Lamberts Lane Home Corp.  
 Location: Caledon  
 Model: Millwood 4A  
 Lot #: 58  
 Elevation: 1

Job Track: 50120  
 PlanLog: 200165  
 Layout ID: 400359  
 Ref #  
 Page: 2 of 3  
 Date: 04/05/2019  
 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 | T15<br>Jack-Closed<br>Girder | 9 /12 | 5-10-08 | 5-04-00 | 2 x 4<br>2 x 8 |                           | 1-06-04<br>5-04-00           | 83.66<br>51.67   |                     |                    |
|         | 10         | J1<br>Jack-Open              | 6 /12 | 5-10-08 | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 167.94<br>106.67 |                     |                    |
|         | 2          | J2<br>Jack-Open<br>Girder    | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4          | 1-03-08<br>4-01-01        | 1-02-00<br>2-00-12           | 23.16<br>14.67   |                     |                    |
|         | 2          | J3<br>Jack-Open              | 6 /12 | 3-09-07 | 3-00-12 | 2 x 4          | 1-03-08<br>2-01-01        | 1-02-00<br>3-00-12           | 28.26<br>17.33   |                     |                    |
|         | 2          | J4<br>Jack-Open              | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4          | 1-03-08<br>1-01           | 1-02-00<br>2-00-12           | 14.04<br>9.33    |                     |                    |
|         | 2          | J5<br>Jack-Open              | 6 /12 | 1-10-08 | 3-00-12 | 2 x 4          | 1-03-08<br>1-10-15        | 1-02-00<br>2-01-04           | 19.14<br>12.00   |                     |                    |
|         | 1          | J6<br>Jack-Open<br>Girder    | 9 /12 | 1-09-07 | 2-10-05 | 2 x 4          | 1-03-08<br>4-01-01        | 1-06-04<br>2-10-05           | 14.22<br>10.17   |                     |                    |
|         | 1          | J7<br>Jack-Open              | 9 /12 | 3-09-07 | 4-04-05 | 2 x 4          | 1-03-08<br>2-01-01        | 1-06-04<br>4-04-05           | 16.84<br>11.00   |                     |                    |
|         | 2          | J8<br>Jack-Open              | 9 /12 | 1-09-07 | 2-10-05 | 2 x 4          | 1-03-08<br>1-01           | 1-06-04<br>2-10-05           | 18.63<br>14.00   |                     |                    |
|         | 2          | J9<br>Jack-Open              | 9 /12 | 1-10-08 | 4-04-05 | 2 x 4          | 1-03-08<br>1-10-15        | 1-06-04<br>2-11-02           | 24.44<br>16.67   |                     |                    |
|         | 6          | J10<br>Jack-Open             | 9 /12 | 5-03-08 | 5-05-14 | 2 x 4          | 1-05-00                   | 1-06-04<br>5-05-14           | 110.98<br>74.00  |                     |                    |
|         | 3          | J11<br>GABLE                 | 4 /12 | 7-01-08 | 3-01-06 | 2 x 4          | 1-03-08                   | 3-15<br>2-08-07              | 61.22<br>38.50   |                     |                    |
|         | 4          | J12<br>Jack-Open             | 4 /12 | 5-01-08 | 2-10-08 | 2 x 4          | 1-03-08                   | 3-15<br>2-00-07              | 86.77<br>42.67   |                     |                    |
|         | 5          | J13<br>Jack-Open             | 4 /12 | 6-05-08 | 2-10-11 | 2 x 4          | 1-03-08                   | 3-15<br>2-05-12              | 94.08<br>60.83   |                     |                    |



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|---------|------------|----------------------------|-------|---------|---------|--------|---------------------------|------------------------------|---------------|---------------------|--------------------|
|         | 1          | J60<br>Jack-Open<br>Girder | 9/12  | 1-09-07 | 2-10-05 | 2 x 4  | 1-03-08<br>3-06-01        | 1-06-04<br>2-10-05           | 13.21<br>9.67 |                     |                    |
|         | 1          | J70<br>Jack-Open           | 9/12  | 5-03-08 | 4-04-05 | 2 x 4  |                           | 1-06-04<br>5-05-14           | 14.33<br>9.67 |                     |                    |

TOTAL # TRUSS= 79 TOTAL BFT OF ALL TRUSSES= 2652.86 BFT. TOTAL WEIGHT OF ALL TRSSES 4196.04 LBS

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 10  | Hardware | LUS24    |        |
| 2   | Hardware | HGUS26-2 |        |
| 1   | Hardware | LUS26-2  |        |

TOTAL NUMBER OF ITEMS= 13

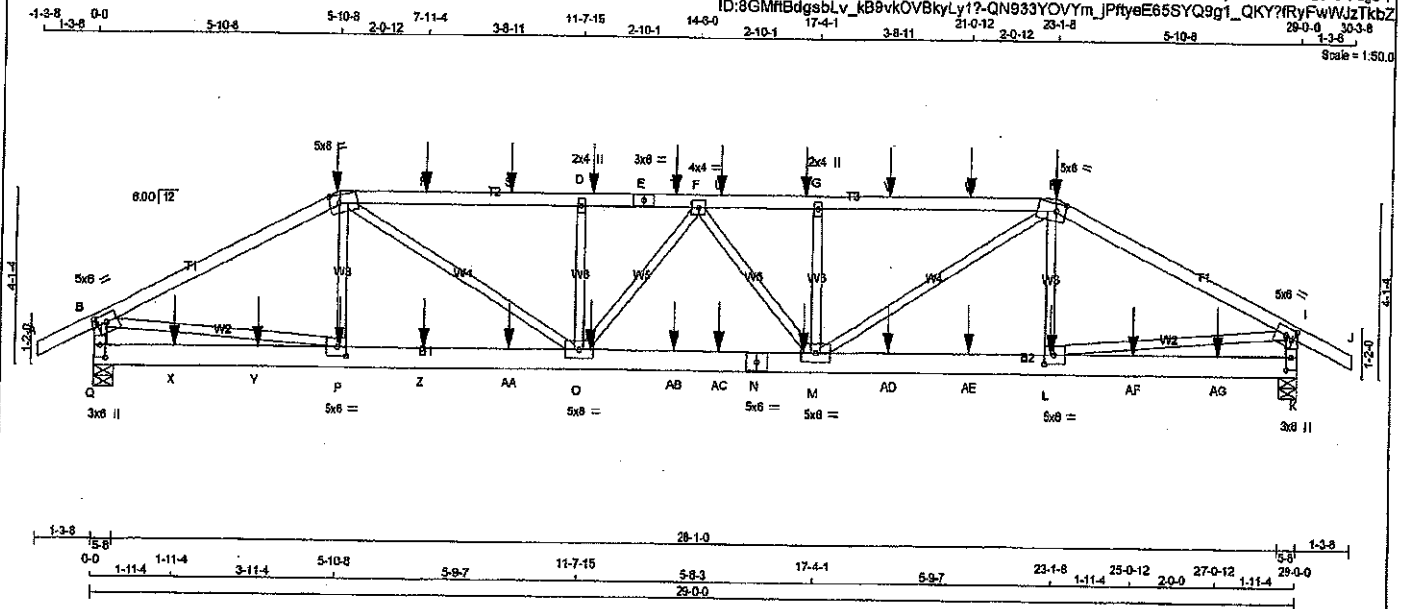
**RECEIVED**  
 AUG 23 2019

TOWN OF CALEDON  
 BUILDING SECTION  
 FILE NO

|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | TRUSS DESC. | DRWG NO. |
| 200165-400359 | T1         | 1        | 2   | Millwood 4A |             |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Fri Apr 5 15:40:10 2019 Page 1  
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TOTAL WEIGHT = 2 X 129 = 258 lb

| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - C  | 2x4               | DRY    | No.2 | SPF    |        |
| C - E  | 2x4               | DRY    | No.2 | SPF    |        |
| E - H  | 2x4               | DRY    | No.2 | SPF    |        |
| H - J  | 2x4               | DRY    | No.2 | SPF    |        |
| Q - B  | 2x4               | DRY    | No.2 | SPF    |        |
| K - I  | 2x4               | DRY    | No.2 | SPF    |        |
| Q - N  | 2x6               | DRY    | No.2 | SPF    |        |
| N - K  | 2x6               | DRY    | No.2 | SPF    |        |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122'X3') SPIRAL NAILS    |                      |             |
| A - C                                    | 12                   | SIDE(81.0)  |
| C - E                                    | 12                   | SIDE(81.0)  |
| E - H                                    | 12                   | SIDE(81.0)  |
| H - J                                    | 12                   | SIDE(81.0)  |
| Q - B                                    | 12                   | TOP         |
| K - I                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS |                      |             |
| Q - N                                    | 12                   | SIDE(183.1) |
| N - K                                    | 12                   | SIDE(183.1) |
| WEBS : (0.122'X3') SPIRAL NAILS          |                      |             |
| 2x3                                      | 1                    | 8           |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMWV-1  | MT20   | 5.0 | 8.0 | 2.25 | 2.75 |
| C TTWV-m  | MT20   | 5.0 | 8.0 | 2.25 | 2.75 |
| D TMWV-w  | MT20   | 2.0 | 4.0 |      |      |
| E TS-1    | MT20   | 3.0 | 6.0 |      |      |
| F TMWV-1  | MT20   | 4.0 | 4.0 |      |      |
| G TMWV-w  | MT20   | 2.0 | 4.0 |      |      |
| H TTWV-m  | MT20   | 5.0 | 8.0 | 2.25 | 2.75 |
| I TMWV-t  | MT20   | 5.0 | 8.0 | 2.25 | 2.75 |
| K BMV1+p  | MT20   | 3.0 | 6.0 | 3.50 | 1.50 |
| L BMWV-1  | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| M BMWVW-1 | MT20   | 5.0 | 8.0 |      |      |
| N BS-1    | MT20   | 5.0 | 6.0 |      |      |
| O BMWVW-1 | MT20   | 5.0 | 8.0 |      |      |
| P BMWV-1  | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| Q BMV1+p  | MT20   | 3.0 | 6.0 | 3.50 | 1.50 |

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        | 3431                    | 0                               | 3431      | 0        |
| K        | 3431                    | 0                               | 3431      | 0        |

UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS |
|-----------|----------|---------------------|
| JT        | COMBINED | SNOW                |
| Q         | 2589     | 1403 / 0            |
| K         | 2589     | 1403 / 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 = 3.23 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. CS1 (LC) | MAX. UNBRACED LENGTH | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|--------|-------|---------------------------|---------------------------|---------------|----------------------|-------|-------|---------------------------|---------------|
| FR-TO  | A-B   | 0/31                      | -102.1                    | -102.1        | 0.07 (1)             | 10.00 | P-C   | -153 / 276                | 0.04 (3)      |
|        | B-C   | -5045 / 0                 | -102.1                    | -102.1        | 0.56 (1)             | 3.83  | C-D   | 0 / 257.4                 | 0.32 (1)      |
|        | C-R   | -6870 / 0                 | -102.1                    | -102.1        | 0.67 (1)             | 3.23  | D-E   | -967 / 0                  | 0.12 (1)      |
|        | R-S   | -6870 / 0                 | -102.1                    | -102.1        | 0.67 (1)             | 3.23  | M-G   | -967 / 0                  | 0.12 (1)      |
|        | S-D   | -6870 / 0                 | -102.1                    | -102.1        | 0.67 (1)             | 3.23  | M-H   | 0 / 257.4                 | 0.32 (1)      |
|        | D-E   | -6870 / 0                 | -102.1                    | -102.1        | 0.50 (1)             | 3.28  | L-H   | -153 / 276                | 0.04 (3)      |
|        | E-T   | -6870 / 0                 | -102.1                    | -102.1        | 0.50 (1)             | 3.28  | B-P   | 0 / 454.7                 | 0.56 (1)      |
|        | T-F   | -6870 / 0                 | -102.1                    | -102.1        | 0.50 (1)             | 3.28  | L-I   | 0 / 454.7                 | 0.56 (1)      |
|        | F-U   | -6870 / 0                 | -102.1                    | -102.1        | 0.50 (1)             | 3.28  | Q-F   | -78 / 0                   | 0.01 (1)      |
|        | U-G   | -6870 / 0                 | -102.1                    | -102.1        | 0.50 (1)             | 3.28  | Q-M   | -78 / 0                   | 0.01 (1)      |
|        | G-V   | -6870 / 0                 | -102.1                    | -102.1        | 0.67 (1)             | 3.23  |       |                           |               |
|        | V-W   | -6870 / 0                 | -102.1                    | -102.1        | 0.67 (1)             | 3.23  |       |                           |               |
|        | W-H   | -6870 / 0                 | -102.1                    | -102.1        | 0.67 (1)             | 3.23  |       |                           |               |
|        | H-I   | -5045 / 0                 | -102.1                    | -102.1        | 0.56 (1)             | 3.83  |       |                           |               |
|        | I-J   | 0/31                      | -102.1                    | -102.1        | 0.07 (1)             | 10.00 |       |                           |               |
|        | Q-B   | -3284 / 0                 | 0.0                       | 0.0           | 0.18 (1)             | 6.42  |       |                           |               |
|        | K-I   | -3284 / 0                 | 0.0                       | 0.0           | 0.18 (1)             | 6.42  |       |                           |               |
|        | Q-X   | 0/0                       | -38.5                     | -38.5         | 0.10 (3)             | 10.00 |       |                           |               |
|        | X-Y   | 0/0                       | -38.5                     | -38.5         | 0.10 (3)             | 10.00 |       |                           |               |
|        | Y-P   | 0/0                       | -38.5                     | -38.5         | 0.10 (3)             | 10.00 |       |                           |               |
|        | P-Z   | 0/4505                    | -38.5                     | -38.5         | 0.38 (1)             | 10.00 |       |                           |               |
|        | Z-AA  | 0/4505                    | -38.5                     | -38.5         | 0.38 (1)             | 10.00 |       |                           |               |
|        | AA-O  | 0/4505                    | -38.5                     | -38.5         | 0.38 (1)             | 10.00 |       |                           |               |
|        | O-AB  | 0/6716                    | -38.5                     | -38.5         | 0.53 (1)             | 10.00 |       |                           |               |
|        | AB-AC | 0/6716                    | -38.5                     | -38.5         | 0.53 (1)             | 10.00 |       |                           |               |
|        | AC-N  | 0/6716                    | -38.5                     | -38.5         | 0.53 (1)             | 10.00 |       |                           |               |
|        | N-M   | 0/6716                    | -38.5                     | -38.5         | 0.53 (1)             | 10.00 |       |                           |               |
|        | M-AD  | 0/4505                    | -38.5                     | -38.5         | 0.38 (1)             | 10.00 |       |                           |               |
|        | AD-AE | 0/4505                    | -38.5                     | -38.5         | 0.38 (1)             | 10.00 |       |                           |               |
|        | AE-L  | 0/4505                    | -38.5                     | -38.5         | 0.38 (1)             | 10.00 |       |                           |               |
|        | L-AF  | 0/0                       | -38.5                     | -38.5         | 0.10 (3)             | 10.00 |       |                           |               |
|        | AF-AG | 0/0                       | -38.5                     | -38.5         | 0.10 (3)             | 10.00 |       |                           |               |
|        | AG-K  | 0/0                       | -38.5                     | -38.5         | 0.10 (3)             | 10.00 |       |                           |               |

| FACTORED CONCENTRATED LOADS (LBS) | JT | LOC.    | LC1  | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|-----------------------------------|----|---------|------|------|-------|------|-------|------|-------|
|                                   | C  | 5-10-8  | -377 | -377 | FRONT | VERT | TOTAL | ---  | ---   |
|                                   | D  | 11-11-4 | -123 | -123 | FRONT | VERT | TOTAL | ---  | ---   |
|                                   | G  | 17-0-12 | -123 | -123 | FRONT | VERT | TOTAL | ---  | ---   |

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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 088-09, CSA 085-14  
- 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 (0.18")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TO=0.67/1.00 (G-H:1), BO=0.53/1.00 (M-O:1)  
WB=0.58/1.00 (L-I:1), SSI=0.22/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MT20            | 818         | 354           |
|                 | 1697        | 768           |
|                 | 1987        | 1056          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)  
JSI METAL= 0.65 (B) (INPUT = 1.00)

DRWG NO. TAM 19207801  
STRUCTURAL  
COMPONENT ONLY

CONTINUED ON PAGE 2

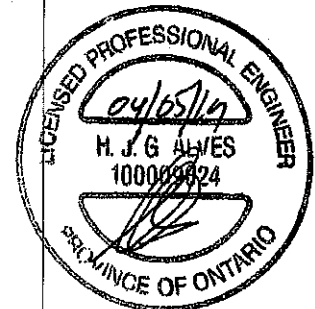
|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | T1         | 1        | 2   | TRUSS DESC. |             |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:40:10 2019 Page 2  
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# FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC     | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| H  | 23-1-8  | -377 | -377 | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| L  | 23-0-12 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| M  | 17-0-12 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| O  | 11-11-4 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| P  | 5-11-4  | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| R  | 7-11-4  | -123 | -123 | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| S  | 9-11-4  | -123 | -123 | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| T  | 13-11-4 | -123 | -123 | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| U  | 15-0-12 | -123 | -123 | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| V  | 19-0-12 | -123 | -123 | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| W  | 21-0-12 | -123 | -123 | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| X  | 1-11-4  | -55  | -74  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| Y  | 3-11-4  | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| Z  | 7-11-4  | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| AA | 9-11-4  | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| AB | 13-11-4 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| AC | 15-0-12 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| AD | 19-0-12 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| AE | 21-0-12 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| AF | 25-0-12 | -55  | -70  | ---  | FRONT | VERT | TOTAL | ---  | ---   |
| AG | 27-0-12 | -55  | -74  | ---  | FRONT | VERT | TOTAL | ---  | ---   |

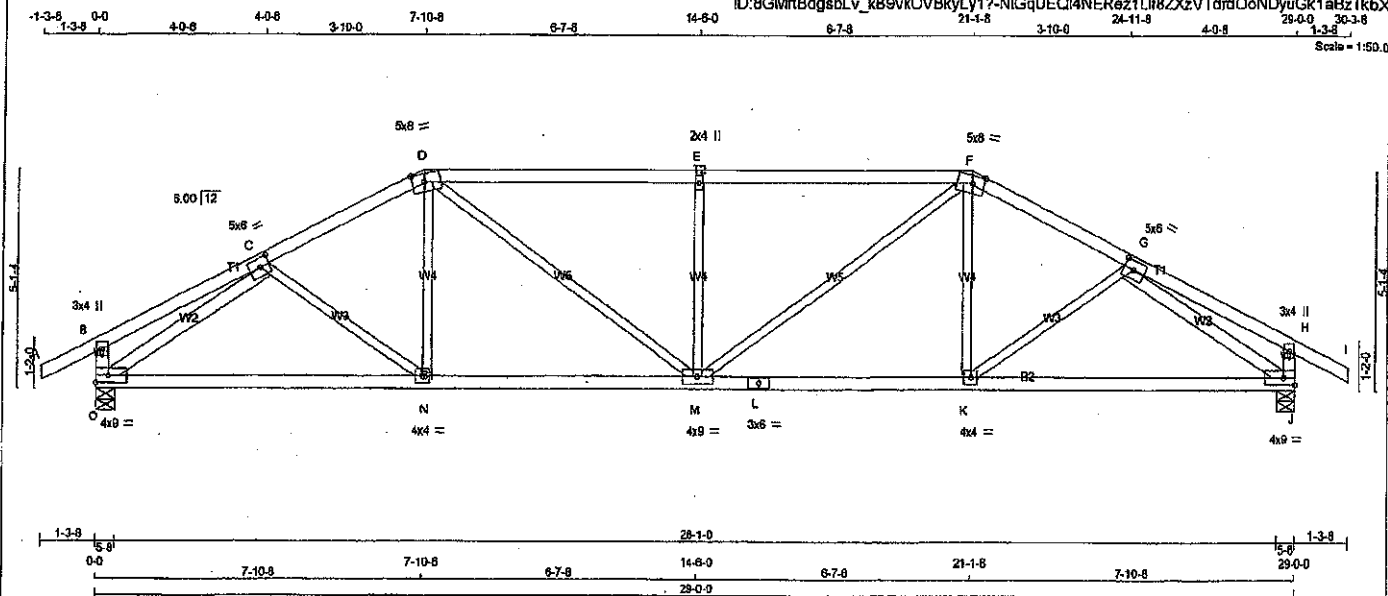


DRWG NO. TAM 1907851  
STRUCTURAL  
COMPONENT C-1  
2/2

|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | T2         | 1        | 1   | TRUSS DESC. |             |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:40:12 2019 Page 1  
ID: 8GMRBdgsbLv\_kB9vkOVbKyLy1?NIGqUEQ4NERez1LW8ZXzVTDrdOoNDyuGk1aBzTkbX



TOTAL WEIGHT = 115 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| D  | TTWW+L | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| C  | TTWW+m | MT20   | 5.0 | 8.0 | 2.25 | 3.50 |
| E  | TMV+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW+m | MT20   | 5.0 | 8.0 | 2.25 | 3.50 |
| G  | TMV+w  | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| H  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| K  | BMVW+L | MT20   | 4.0 | 8.0 |      | Edge |
| J  | BMVW+L | MT20   | 4.0 | 4.0 |      |      |
| L  | BS-L   | MT20   | 3.0 | 6.0 |      |      |
| M  | BMVW+L | MT20   | 4.0 | 9.0 |      |      |
| N  | BMVW+L | MT20   | 4.0 | 4.0 |      |      |
| O  | BMVW+L | MT20   | 4.0 | 9.0 |      | Edge |

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

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

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG |       | REQD BRG |       |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|-------|----------|-------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX | IN-SX    | IN-SX |
| O        | 2177 | 0                       | 2177 | 0                               | 0      | 5-8       | 5-8   | 5-8      | 5-8   |
| J        | 2177 | 0                       | 2177 | 0                               | 0      | 5-8       | 5-8   | 5-8      | 5-8   |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW  | LIVE  | PERM LIVE | WIND | DEAD  | SOIL |
|----|-----------|-------|-------|-----------|------|-------|------|
| O  | 1619      | 921/0 | 304/0 | 0/0       | 0/0  | 393/0 | 0/0  |
| J  | 1619      | 921/0 | 304/0 | 0/0       | 0/0  | 393/0 | 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 = 3.08 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 |             | FACTORED         |                 | WEBS  |             | FACTORED      |               |
|--------|-------------|------------------|-----------------|-------|-------------|---------------|---------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC)   | MEMB. | FORCE (LBS) | MAX. CSI (LC) | MAX. CSI (LC) |
| FR-TO  |             |                  |                 | FR-TO |             |               |               |
| A-B    | 0/31        | -102.1           | -102.1 0.13 (1) | 10.00 | C-N         | 0/159         | 0.04 (3)      |
| B-C    | 0/18        | -102.1           | -102.1 0.22 (1) | 10.00 | N-O         | 0/383         | 0.08 (2)      |
| C-D    | -2793/0     | -102.1           | -102.1 0.27 (1) | 3.95  | D-M         | 0/878         | 0.20 (1)      |
| D-E    | -3197/0     | -102.1           | -102.1 0.77 (1) | 3.09  | M-E         | -830/0        | 0.32 (1)      |
| E-F    | -3197/0     | -102.1           | -102.1 0.77 (1) | 3.09  | M-F         | 0/878         | 0.20 (1)      |
| F-G    | -2793/0     | -102.1           | -102.1 0.27 (1) | 3.95  | K-F         | 0/383         | 0.08 (2)      |
| G-H    | 0/18        | -102.1           | -102.1 0.22 (1) | 10.00 | K-G         | 0/159         | 0.04 (3)      |
| H-I    | 0/31        | -102.1           | -102.1 0.13 (1) | 10.00 | O-C         | -3009/0       | 0.84 (1)      |
| O-B    | -300/0      | 0.0              | 0.0 0.03 (1)    | 7.81  | G-J         | -3009/0       | 0.84 (1)      |
| J-H    | -300/0      | 0.0              | 0.0 0.03 (1)    | 7.81  |             |               |               |
| O-N    | 0/2446      | -38.5            | -38.5 0.74 (2)  | 10.00 |             |               |               |
| N-M    | 0/2486      | -38.5            | -38.5 0.75 (2)  | 10.00 |             |               |               |
| M-L    | 0/2486      | -38.5            | -38.5 0.75 (2)  | 10.00 |             |               |               |
| L-K    | 0/2486      | -38.5            | -38.5 0.75 (2)  | 10.00 |             |               |               |
| K-J    | 0/2446      | -38.5            | -38.5 0.74 (2)  | 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 8.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2016, OBC 2012
- CSA 986-09, CSA 986-14
- TPC 2011, 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 (0.18")  
ALLOWABLE DEFL.(TL) = L/360 (0.87")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.31")

CSI: TC=0.77/1.00 (D-E:1), BC=0.75/1.00 (M-N:2), WB=0.84/1.00 (C-O:1), SSI=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.

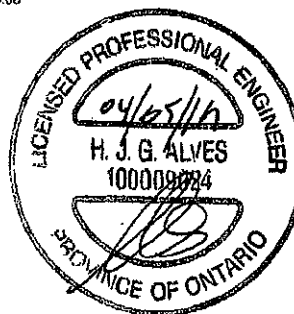
#### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------|------------|-------------|---------------|
| MT20  | 818        | 354         | 1687          |
|       | 788        | 1987        | 1655          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

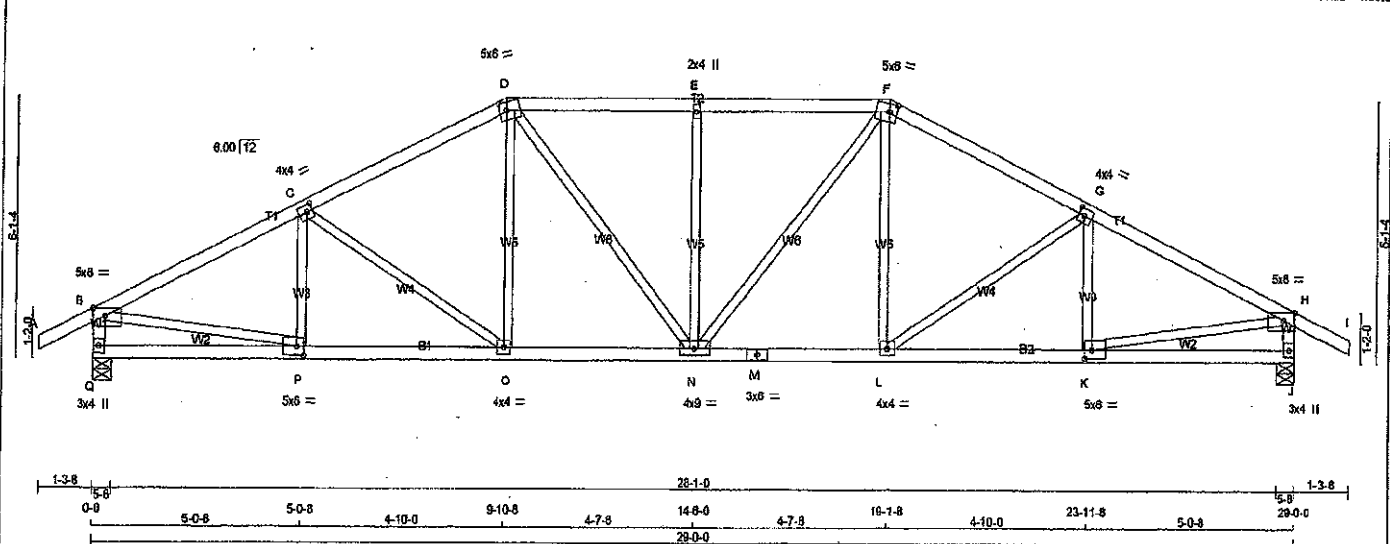
JST GRIP= 0.90 (J) (INPUT = 0.90)  
JST METAL= 0.80 (L) (INPUT = 1.00)



DRWG NO. TAM 1907052  
STRUCTURAL  
COMPONENT ONLY

|                                  |                         |                      |                 |                                 |          |
|----------------------------------|-------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>200165-400359</b> | TRUSS NAME<br><b>T3</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Millwood 4A</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington  |                         |                      |                 |                                 |          |

Version 8.230 S Nov 17 2018 Mitak Industries, Inc. Fri Apr 5 15:40:13 2019 Page 1  
ID:8GMBdgsbLv\_k89vkv8kyLy17-nyqCiaR0rhMIG7cXJMfo3B2kgF0LXuC57wUa7dZtkbVw  
1-3-8 0-0 5-0-8 4-10-0 9-10-8 4-7-8 14-8-0 4-7-8 18-1-8 4-10-0 23-11-8 5-0-8 29-0-0 1-3-8  
Scale = 1:50.0



TOTAL WEIGHT = 121 lb

| LUMBER                |         |        |        |
|-----------------------|---------|--------|--------|
| N. L. G. A. RULES     | SIZE    | LUMBER | DESCR. |
| CHORDS                |         |        |        |
| A - D                 | 2x4 DRY | No.2   | SPF    |
| D - F                 | 2x4 DRY | No.2   | SPF    |
| F - I                 | 2x4 DRY | No.2   | SPF    |
| Q - B                 | 2x4 DRY | No.2   | SPF    |
| J - H                 | 2x4 DRY | No.2   | SPF    |
| Q - M                 | 2x4 DRY | No.2   | SPF    |
| M - J                 | 2x4 DRY | No.2   | SPF    |
| ALL WEBS EXCEPT       | 2x3 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 |       |
|----------|----------------|----------|------|------------------|------|-------|-------|------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | UP    | IN-SX | BRG  | IN-SX |
| Q        | 2177           | 0        | 0    | 2177             | 0    | 0     | 5-8   | 5-8  | 5-8   |
| J        | 2177           | 0        | 0    | 2177             | 0    | 0     | 5-8   | 5-8  | 5-8   |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN COMPONENT REACTIONS |       | PERM. LIVE |      | WIND  |      | DEAD     |       | SOIL  |            |
|-----------|----------|-----------------------------|-------|------------|------|-------|------|----------|-------|-------|------------|
| JT        | COMBINED | SNOW                        | LIVE  | PERM. LIVE | WIND | DEAD  | SOIL | COMBINED | SNOW  | LIVE  | PERM. LIVE |
| Q         | 1819     | 921/0                       | 304/0 | 0/0        | 0/0  | 383/0 | 0/0  | 1819     | 921/0 | 304/0 | 0/0        |
| J         | 1819     | 921/0                       | 304/0 | 0/0        | 0/0  | 383/0 | 0/0  | 1819     | 921/0 | 304/0 | 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 = 3.72 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.20 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |                 | WEBS  |             | FACTORED         |              |
|--------|-------------|------------------|-----------------|-------|-------------|------------------|--------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX (LC)    | MEMB. | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX (LC) |
| FR-TO  |             |                  |                 | FR-TO |             |                  |              |
| A-B    | 0/31        | -102.1           | -102.1 0.13 (1) | 10.00 | P-C         | -240/72          | 0.05 (1)     |
| B-C    | -2800/0     | -102.1           | -102.1 0.43 (1) | 3.72  | C-O         | -380/0           | 0.24 (1)     |
| C-D    | -2593/0     | -102.1           | -102.1 0.39 (1) | 3.94  | O-D         | 0/420            | 0.09 (2)     |
| D-E    | -2595/0     | -102.1           | -102.1 0.35 (1) | 3.97  | D-N         | 0/471            | 0.11 (1)     |
| E-F    | -2595/0     | -102.1           | -102.1 0.35 (1) | 3.97  | N-E         | -572/0           | 0.33 (1)     |
| F-G    | -2593/0     | -102.1           | -102.1 0.39 (1) | 3.94  | N-F         | 0/471            | 0.11 (1)     |
| G-H    | -2800/0     | -102.1           | -102.1 0.43 (1) | 3.72  | L-F         | 0/420            | 0.09 (2)     |
| H-I    | 0/31        | -102.1           | -102.1 0.13 (1) | 10.00 | L-G         | -380/0           | 0.24 (1)     |
| Q-B    | -2084/0     | 0.0              | 0.0 0.21 (1)    | 5.85  | K-G         | -240/72          | 0.05 (1)     |
| J-H    | -2084/0     | 0.0              | 0.0 0.21 (1)    | 5.85  | B-P         | 0/2854           | 0.80 (1)     |
|        |             |                  |                 |       | K-H         | 0/2854           | 0.80 (1)     |
| Q-P    | 0/0         | -38.5            | -38.5 0.17 (3)  | 10.00 |             |                  |              |
| P-O    | 0/2816      | -38.5            | -38.5 0.52 (1)  | 10.00 |             |                  |              |
| O-N    | 0/2301      | -38.5            | -38.5 0.47 (1)  | 10.00 |             |                  |              |
| N-M    | 0/2301      | -38.5            | -38.5 0.47 (1)  | 10.00 |             |                  |              |
| M-L    | 0/2301      | -38.5            | -38.5 0.47 (1)  | 10.00 |             |                  |              |
| L-K    | 0/2816      | -38.5            | -38.5 0.52 (1)  | 10.00 |             |                  |              |
| K-J    | 0/0         | -38.5            | -38.5 0.17 (3)  | 10.00 |             |                  |              |

#### PLATES (Table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| C  | TMVW-w | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTVW-m | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| E  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TTVW-m | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| G  | TMVW-w | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| H  | TMVW-p | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| J  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| K  | BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| L  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| M  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-w | MT20   | 4.0 | 9.0 |      |      |
| O  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| P  | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| Q  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

#### 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

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

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

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

(55% OF 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) =  $1/999$  (0.13")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.97")  
CALCULATED VERT. DEFL. (TL) =  $1/999$  (0.21")

CSI: TC=0.43/1.00 (B-C:1), BC=0.52/1.00 (O-P:1), WB=0.60/1.00 (B-P:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

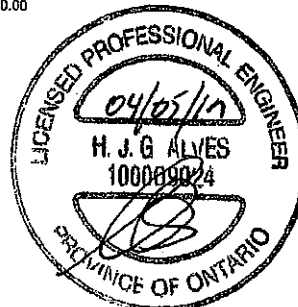
#### NAIL VALUES

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

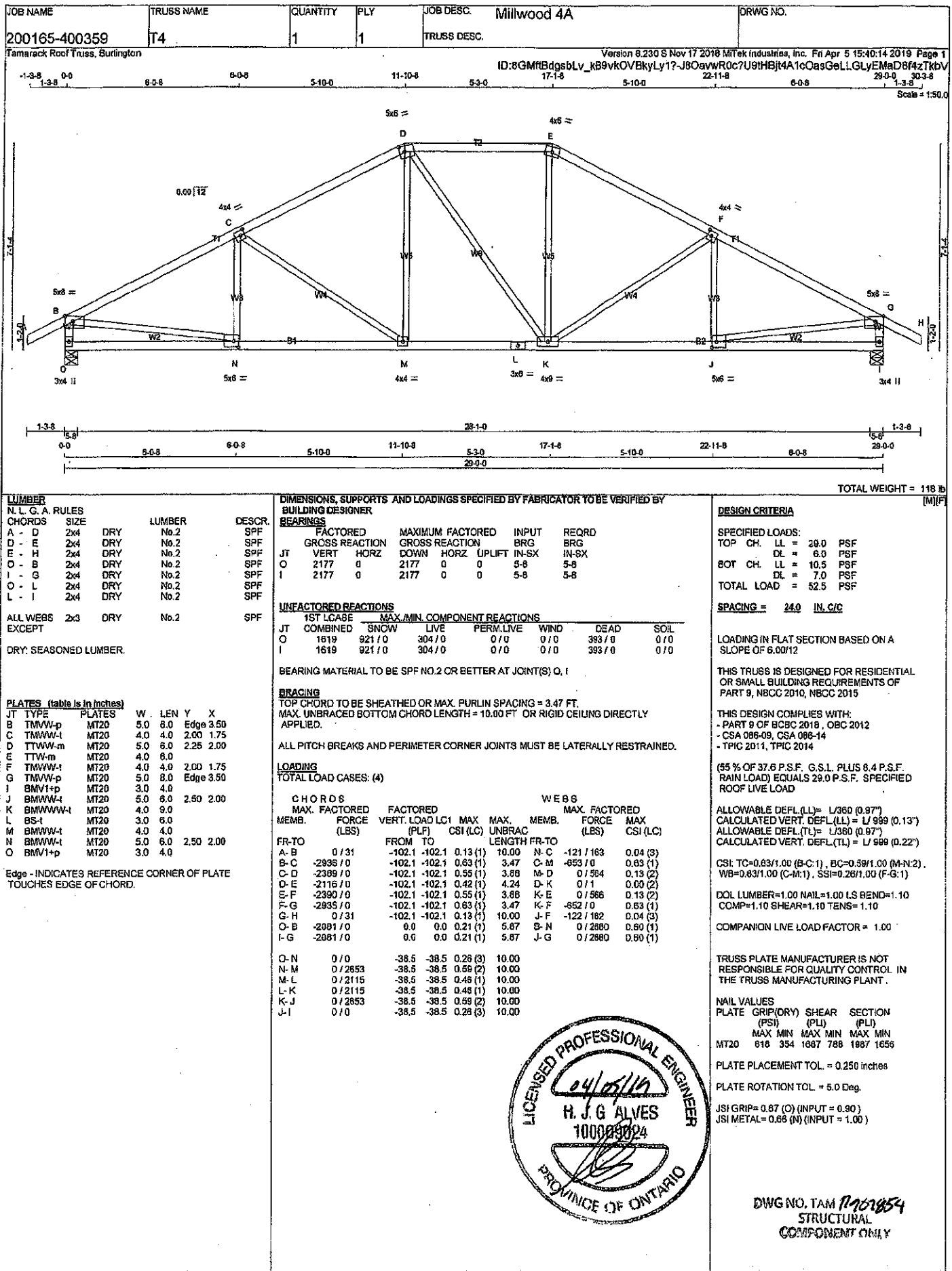
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (J) (INPUT = 0.90)  
JSI METAL= 0.73 (M) (INPUT = 1.00)



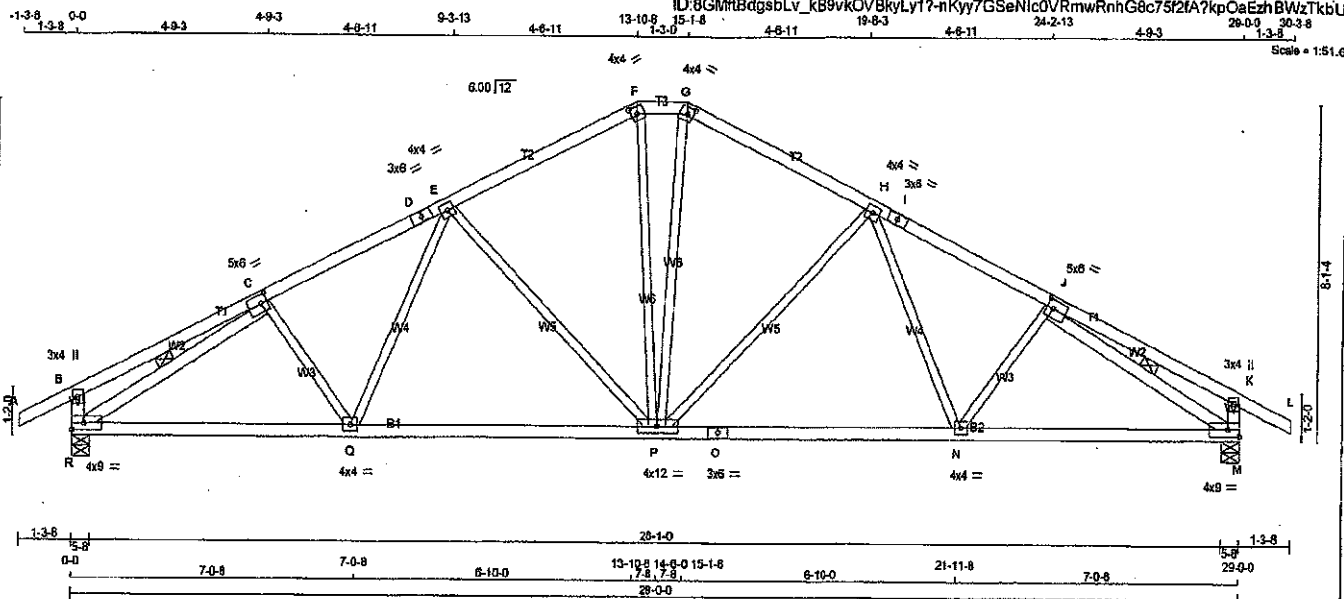
DRWG NO. TAM 1907853  
STRUCTURAL  
COMPONENT ONLY



|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | T5         | 1        | 1   | TRUSS DESC. |             |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 126 LB

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - D                 | 2x4    | DRY  | No.2   |
| D - F                 | 2x4    | DRY  | No.2   |
| F - G                 | 2x4    | DRY  | No.2   |
| G - I                 | 2x4    | DRY  | No.2   |
| I - L                 | 2x4    | DRY  | No.2   |
| R - B                 | 2x4    | DRY  | No.2   |
| M - K                 | 2x4    | DRY  | No.2   |
| R - O                 | 2x4    | DRY  | No.2   |
| O - M                 | 2x4    | DRY  | No.2   |
| ALL WEBS              | 2x3    | DRY  | No.2   |
| EXCEPT                |        |      |        |
| R - C                 | 2x4    | DRY  | No.2   |
| J - M                 | 2x4    | DRY  | No.2   |
| DRY: SEASONED LUMBER. |        |      |        |

| PLATES (table is in inches) |        |     |      |      |      |
|-----------------------------|--------|-----|------|------|------|
| JT TYPE                     | PLATES | W   | LEN  | Y    | X    |
| B TMV+p                     | MT20   | 3.0 | 4.0  |      |      |
| C TMWW-I                    | MT20   | 5.0 | 6.0  | 2.50 | 2.00 |
| D TS-I                      | MT20   | 3.0 | 6.0  |      |      |
| E TMWW-I                    | MT20   | 4.0 | 4.0  |      |      |
| F TTW-h                     | MT20   | 4.0 | 4.0  | 2.00 | 1.75 |
| G TTW-h                     | MT20   | 4.0 | 4.0  | 2.00 | 1.75 |
| H TMWW-I                    | MT20   | 4.0 | 4.0  |      |      |
| I TS-I                      | MT20   | 3.0 | 6.0  |      |      |
| J TMWW-I                    | MT20   | 5.0 | 6.0  | 2.50 | 2.00 |
| K TMV+p                     | MT20   | 3.0 | 4.0  |      |      |
| M BMWW-I                    | MT20   | 4.0 | 9.0  |      | Edge |
| N BMWW-I                    | MT20   | 4.0 | 4.0  |      |      |
| O SS-I                      | MT20   | 3.0 | 6.0  |      |      |
| P BMWWWW-I                  | MT20   | 4.0 | 12.0 |      |      |
| Q BMWW-I                    | MT20   | 4.0 | 4.0  |      |      |
| R BMWW-I                    | MT20   | 4.0 | 9.0  |      | Edge |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |        | REQD |       |
|----------|----------------|----------|------|------------------|------|-------|--------|------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | HORZ  | UPLIFT | BRG  | IN-SX |
| R        | 2177           | 0        | 0    | 2177             | 0    | 0     | 0      | 5-8  | 5-8   |
| M        | 2177           | 0        | 0    | 2177             | 0    | 0     | 0      | 5-8  | 5-8   |

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX./MIN. COMPONENT REACTIONS |         |
|----------|----------|-------------------------------|---------|
| JT       | COMBINED | SNOW                          | LIVE    |
| R        | 1619     | 921 / 0                       | 304 / 0 |
| M        | 1619     | 921 / 0                       | 304 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                       | WEBS  |                           |                       |          |
|--------|---------------------------|---------------------------|-----------------------|-------|---------------------------|-----------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS (LC) |          |
| FR-TO  |                           |                           |                       | FR-TO |                           |                       |          |
| A-B    | 0 / 31                    | -102.1                    | -102.1 0.13 (1)       | 10.00 | C-Q                       | -34 / 122             | 0.03 (3) |
| B-C    | 0 / 18                    | -102.1                    | -102.1 0.28 (1)       | 10.00 | Q-E                       | 0 / 392               | 0.09 (2) |
| C-D    | -2808 / 0                 | -102.1                    | -102.1 0.33 (1)       | 3.88  | E-P                       | -742 / 0              | 0.85 (1) |
| D-E    | -2808 / 0                 | -102.1                    | -102.1 0.33 (1)       | 3.88  | P-H                       | -742 / 0              | 0.85 (1) |
| E-F    | -2101 / 0                 | -102.1                    | -102.1 0.31 (1)       | 4.41  | H-N                       | 0 / 392               | 0.09 (2) |
| F-G    | -1914 / 0                 | -102.1                    | -102.1 0.08 (1)       | 4.84  | N-J                       | -34 / 122             | 0.03 (3) |
| G-H    | -2101 / 0                 | -102.1                    | -102.1 0.31 (1)       | 4.41  | R-C                       | -3089 / 0             | 0.51 (1) |
| H-I    | -2808 / 0                 | -102.1                    | -102.1 0.33 (1)       | 3.88  | J-M                       | -3089 / 0             | 0.51 (1) |
| I-J    | -2808 / 0                 | -102.1                    | -102.1 0.33 (1)       | 3.88  | F-P                       | 0 / 679               | 0.15 (1) |
| J-K    | 0 / 18                    | -102.1                    | -102.1 0.26 (1)       | 10.00 | P-G                       | 0 / 679               | 0.15 (1) |
| K-L    | 0 / 31                    | -102.1                    | -102.1 0.13 (1)       | 10.00 |                           |                       |          |
| R-B    | -336 / 0                  | 0.0                       | 0.0 0.03 (1)          | 7.81  |                           |                       |          |
| M-K    | -336 / 0                  | 0.0                       | 0.0 0.03 (1)          | 7.81  |                           |                       |          |
| R-Q    | 0 / 2533                  | -38.5                     | -38.5 0.68 (2)        | 10.00 |                           |                       |          |
| Q-P    | 0 / 2375                  | -38.5                     | -38.5 0.68 (2)        | 10.00 |                           |                       |          |
| P-O    | 0 / 2375                  | -38.5                     | -38.5 0.68 (2)        | 10.00 |                           |                       |          |
| O-N    | 0 / 2375                  | -38.5                     | -38.5 0.68 (2)        | 10.00 |                           |                       |          |
| N-M    | 0 / 2533                  | -38.5                     | -38.5 0.68 (2)        | 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 2010, NBCC 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

ALLOWABLE DEFL (LL) =  $L/360$  (0.87")  
CALCULATED VERT. DEFL (LL) =  $L/999$  (0.13")  
ALLOWABLE DEFL (TL) =  $L/360$  (0.87")  
CALCULATED VERT. DEFL (TL) =  $L/999$  (0.23")

CSI: TC=0.33/1.00 (C-E-1), BC=0.88/1.00 (Q-R-2), WB=0.85/1.00 (H-P-1), SS=0.20/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

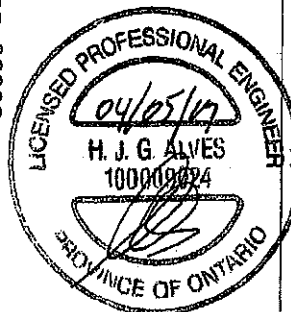
#### NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 616 354 1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

J-B GRIP= 0.90 (F) (INPUT = 0.90)  
J-I METAL= 0.76 (J) (INPUT = 1.00)



DRWG NO. TAM 2407855  
STRUCTURAL  
COMPONENT ONLY

|                                  |                         |                      |                 |                                 |          |
|----------------------------------|-------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>200165-400359</b> | TRUSS NAME<br><b>T6</b> | QUANTITY<br><b>9</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Millwood 4A</b> | DRWG NO. |
|----------------------------------|-------------------------|----------------------|-----------------|---------------------------------|----------|

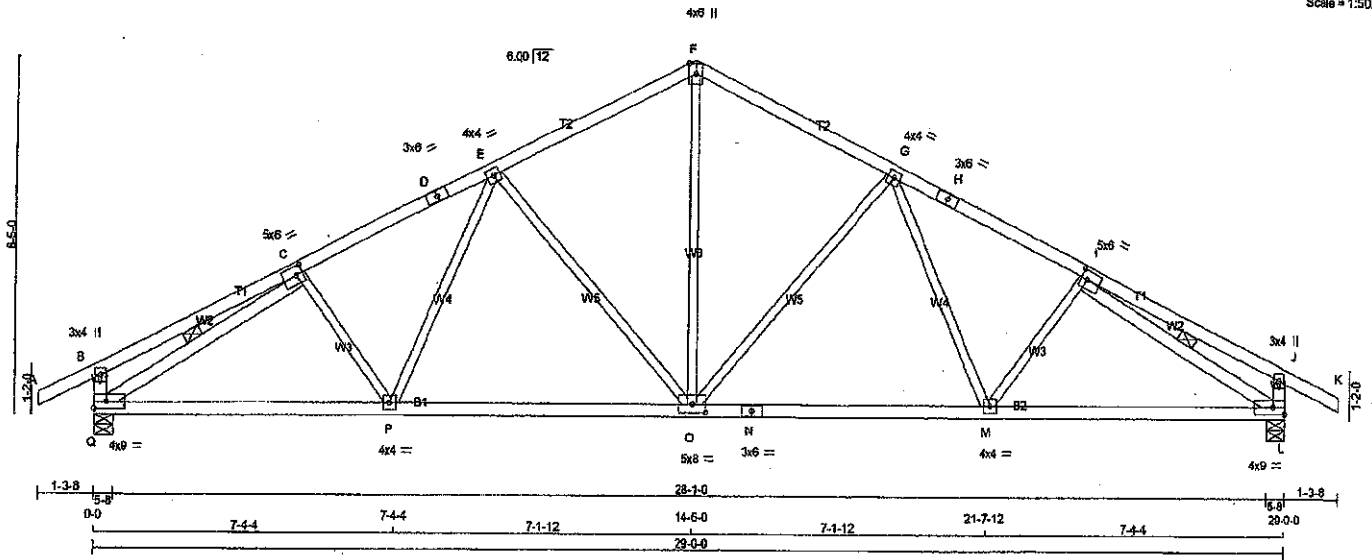
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Fri Apr 5 15:40:16 2019 Page 1

ID:8GMH8dgsbLv\_kB9vkOVbKyLy1?FWWWKcTG8ckt7aL6\_VCVhpf1S7BkAoXpuiGyzTKbT

29-0-0 30-3-8 1-3-8

Scale = 1:50.6



TOTAL WEIGHT = 9 X 122 = 1084 lb

**LUMBER**

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWV-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| D  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| E  | TMWV-t | MT20   | 4.0 | 4.0 |      |      |
| F  | TTW+p  | MT20   | 4.0 | 6.0 | Edge |      |
| G  | TMWV-t | MT20   | 4.0 | 4.0 |      |      |
| H  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| I  | TMWV-t | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| J  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| L  | BMWV-t | MT20   | 4.0 | 9.0 | Edge |      |
| M  | BMWV-t | MT20   | 4.0 | 4.0 |      |      |
| N  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| O  | BMWV-t | MT20   | 5.0 | 8.0 | 2.25 | 4.00 |
| P  | BMWV-t | MT20   | 4.0 | 4.0 |      |      |
| Q  | BMWV-t | MT20   | 4.0 | 9.0 | Edge |      |

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

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG |
|----|-------------------------|---------------------------------|-----------|------------|
|    | VERT                    | DOWN                            | HORIZ     | UPLIFT     |
| JT | 2177                    | 0                               | 0         | 5-8        |
| Q  | 2177                    | 0                               | 0         | 5-8        |
| L  | 2177                    | 0                               | 0         | 5-8        |

**UNFACTORED REACTIONS**

|    | 1ST LCASE COMBINED | MAX MIN COMPONENT REACTIONS | SNOW    | LIVE  | PERM.LIVE | WIND    | DEAD  | SOIL  |
|----|--------------------|-----------------------------|---------|-------|-----------|---------|-------|-------|
| JT | 1819               | 921 / 0                     | 305 / 0 | 0 / 0 | 0 / 0     | 393 / 0 | 0 / 0 | 0 / 0 |
| Q  | 1819               | 921 / 0                     | 305 / 0 | 0 / 0 | 0 / 0     | 393 / 0 | 0 / 0 | 0 / 0 |
| L  | 1819               | 921 / 0                     | 305 / 0 | 0 / 0 | 0 / 0     | 393 / 0 | 0 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

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

| CHORDS |                           |                           |                           | WEBS     |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|----------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | CS (LC)  |
| FR-TO  |                           |                           |                           | FR-TO    |                           |                           |          |
| A-B    | 0 / 31                    | -102.1                    | 0.13 (1)                  | 10.00    | O-F                       | 0 / 1438                  | 0.32 (1) |
| B-C    | 0 / 19                    | -102.1                    | 0.29 (1)                  | 10.00    | O-G                       | -772 / 0                  | 0.86 (1) |
| C-D    | -2790 / 0                 | -102.1                    | 0.36 (1)                  | 3.87     | G-M                       | 0 / 427                   | 0.10 (2) |
| D-E    | -2790 / 0                 | -102.1                    | 0.36 (1)                  | 3.87     | M-I                       | -75 / 110                 | 0.03 (3) |
| E-F    | -2079 / 0                 | -102.1                    | 0.33 (1)                  | 4.40     | E-O                       | -772 / 0                  | 0.86 (1) |
| F-G    | -2079 / 0                 | -102.1                    | 0.33 (1)                  | 4.40     | P-E                       | 0 / 427                   | 0.10 (2) |
| G-H    | -2790 / 0                 | -102.1                    | 0.36 (1)                  | 3.87     | C-P                       | -75 / 110                 | 0.03 (3) |
| H-I    | -2790 / 0                 | -102.1                    | 0.36 (1)                  | 3.87     | Q-C                       | -3069 / 0                 | 0.54 (1) |
| I-J    | 0 / 19                    | -102.1                    | 0.29 (1)                  | 10.00    | I-L                       | -3069 / 0                 | 0.54 (1) |
| J-K    | 0 / 31                    | -102.1                    | 0.13 (1)                  | 10.00    |                           |                           |          |
| Q-B    | -344 / 0                  | 0.0                       | 0.03 (1)                  | 7.81     |                           |                           |          |
| L-J    | -344 / 0                  | 0.0                       | 0.03 (1)                  | 7.81     |                           |                           |          |
| Q-P    | 0 / 2542                  | -38.5                     | -38.5                     | 0.70 (2) | 10.00                     |                           |          |
| P-O    | 0 / 2344                  | -38.5                     | -38.5                     | 0.67 (2) | 10.00                     |                           |          |
| O-N    | 0 / 2344                  | -38.5                     | -38.5                     | 0.67 (2) | 10.00                     |                           |          |
| N-M    | 0 / 2344                  | -38.5                     | -38.5                     | 0.67 (2) | 10.00                     |                           |          |
| M-L    | 0 / 2542                  | -38.5                     | -38.5                     | 0.70 (2) | 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 2016, OBC 2012  
- CSA 086-09, CSA 086-14  
- TPIC 2011, 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/899 (0.14")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/690 (0.23")

CSI: TC=0.39/1.00 (G-I), BC=0.70/1.00 (P-Q), WB=0.88/1.00 (G-O-I), SSI=0.21/1.00 (E-F-I)

DOJ 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

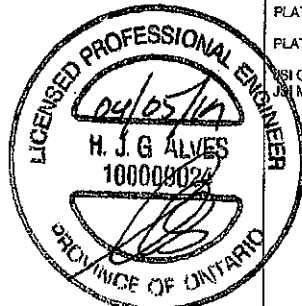
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1867 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

GRIP=0.89 (L) (INPUT = 0.90)  
METAL=0.76 (C) (INPUT = 1.00)



**RECEIVED**

**AUG 23 2019**

**TOWN OF CALEDON BUILDING SECTION**

FILE NO

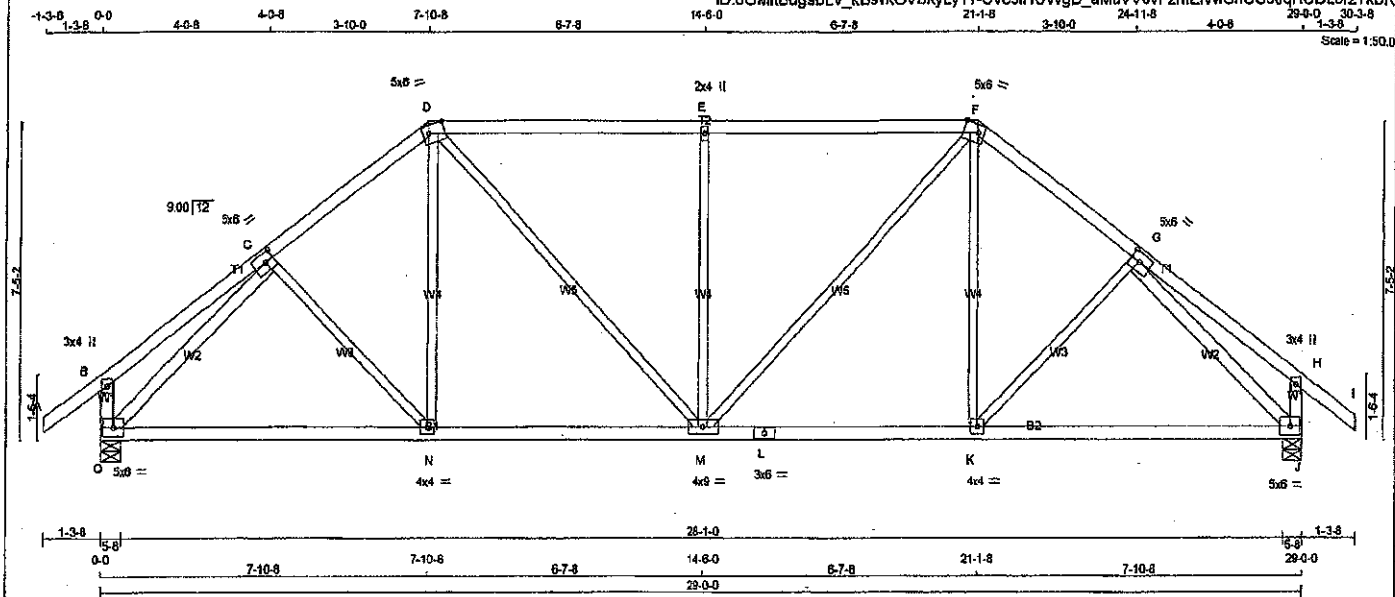
DWG NO. TAM 71907856  
STRUCTURAL  
COMPONENT ONLY

|                                  |                         |                      |                 |                                 |          |
|----------------------------------|-------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>200165-400359</b> | TRUSS NAME<br><b>T7</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Millwood 4A</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington  |                         |                      |                 | TRUSS DESC.                     |          |

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ID:8GMREdgsbLv\_kB9vkOVbKly17-Cve5IHUWgD\_aMuVv6vFzmeIWWGhUC3JqHCBLorzTkbR

Scale = 1:50.0



TOTAL WEIGHT = 2 X 130 = 260 lb (M/F)

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

| PLATES (table is in inches) |        |        |     |               |
|-----------------------------|--------|--------|-----|---------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X       |
| B                           | TMV+p  | MT20   | 3.0 | 4.0           |
| C                           | TMVW-i | MT20   | 5.0 | 6.0 2.50 2.50 |
| D                           | TTVW-m | MT20   | 5.0 | 6.0 Edge 4.25 |
| E                           | TMVW-w | MT20   | 2.0 | 4.0           |
| F                           | TTVW-m | MT20   | 5.0 | 6.0 Edge 4.25 |
| G                           | TMVW-i | MT20   | 5.0 | 6.0 2.50 2.50 |
| H                           | TMV+p  | MT20   | 3.0 | 4.0           |
| J                           | BMVW-i | MT20   | 5.0 | 6.0           |
| K                           | BMVW-i | MT20   | 4.0 | 4.0           |
| L                           | BS-i   | MT20   | 3.0 | 6.0           |
| M                           | BMVW-i | MT20   | 4.0 | 9.0           |
| N                           | BMVW-i | MT20   | 4.0 | 4.0           |
| O                           | BMVW-i | MT20   | 5.0 | 6.0           |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT  |     | REQD  |     |
|----------|----------------|----------|------|------------------|------|--------|-----|-------|-----|
| JT       | GROSS REACTION | VERT     | HORZ | DOWN             | HORZ | UPLIFT | BRG | IN-SX | BRG |
| O        | 2180           | 0        | 0    | 2180             | 0    | 0      | 5-8 | 5-8   | 5-8 |
| J        | 2180           | 0        | 0    | 2180             | 0    | 0      | 5-8 | 5-8   | 5-8 |

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX / MIN. COMPONENT REACTIONS |         |
|----------|----------|--------------------------------|---------|
| JT       | COMBINED | SNOW                           | LIVE    |
| O        | 1620     | 922 / 0                        | 305 / 0 |
| J        | 1620     | 922 / 0                        | 305 / 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 |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |          |
| A-B    | 0 / 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)      | 4.48  | D-M                       | 0 / 704       | 0.16 (1) |
| D-E    | -2158 / 0                 | -102.1 -102.1             | 0.69 (1)      | 3.83  | M-E                       | -828 / 0      | 0.02 (1) |
| E-F    | -2158 / 0                 | -102.1 -102.1             | 0.69 (1)      | 3.83  | M-F                       | 0 / 704       | 0.16 (1) |
| F-G    | -2123 / 0                 | -102.1 -102.1             | 0.25 (1)      | 4.48  | 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 | C-G                       | -2425 / 0     | 0.93 (1) |
| O-B    | -298 / 0                  | 0.0 0.0                   | 0.03 (1)      | 7.81  | G-J                       | -2425 / 0     | 0.93 (1) |
| J-H    | -298 / 0                  | 0.0 0.0                   | 0.03 (1)      | 7.81  |                           |               |          |
| O-N    | 0 / 1668                  | -38.5 -38.5               | 0.64 (2)      | 10.00 |                           |               |          |
| N-M    | 0 / 1678                  | -38.5 -38.5               | 0.65 (2)      | 10.00 |                           |               |          |
| M-L    | 0 / 1678                  | -38.5 -38.5               | 0.65 (2)      | 10.00 |                           |               |          |
| L-K    | 0 / 1678                  | -38.5 -38.5               | 0.65 (2)      | 10.00 |                           |               |          |
| K-J    | 0 / 1668                  | -38.5 -38.5               | 0.64 (2)      | 10.00 |                           |               |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF  
CL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
CL = 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 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, QBC 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/989 (0.18")  
ALLOWABLE DEFL. (TL) = L/360 (0.97")  
CALCULATED VERT. DEFL. (TL) = L/989 (0.27")

CSI: TC=0.68/1.00 (D-E:1), BC=0.85/1.00 (K-M:2),  
WB=0.93/1.00 (C-O:1), SB=0.33/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

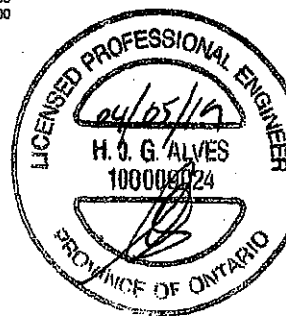
#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (PSI) | SECTION (PLI)      |
|------------------|-------------|--------------------|
| MAX MIN          | MAX MIN     | MAX MIN            |
| MT20             | 818 354     | 1087 789 1987 1658 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SI GRIP=0.87 (D) (INPUT = 0.90)  
SI METAL=0.60 (C) (INPUT = 1.00)



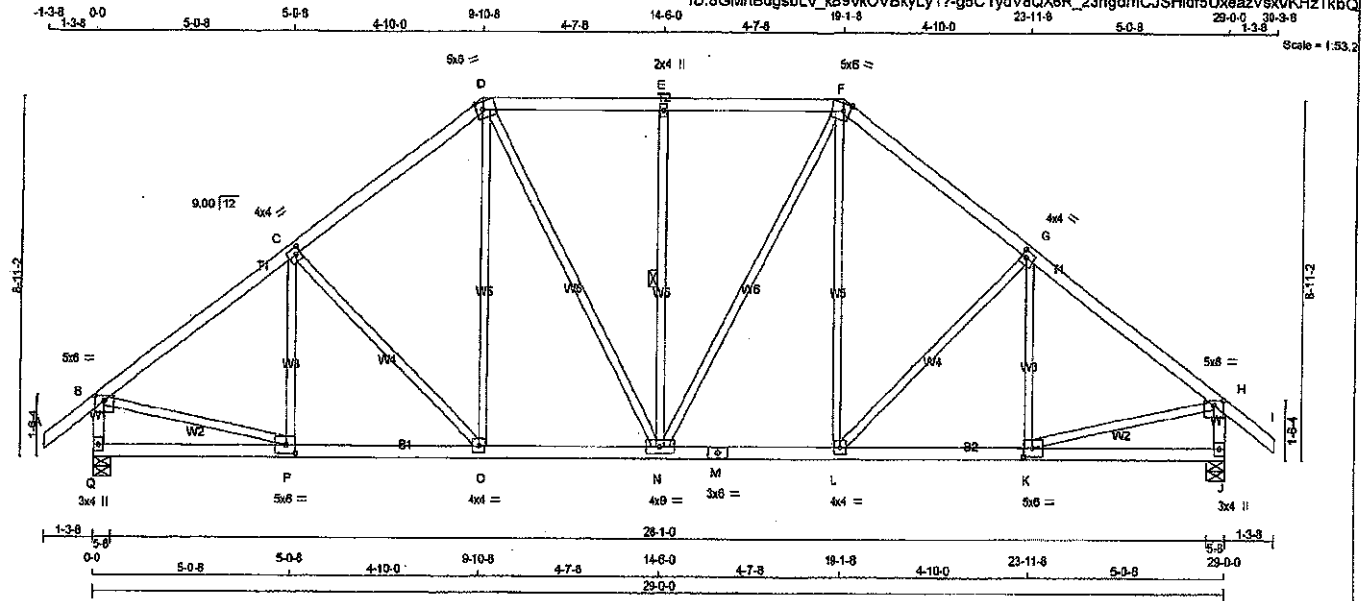
DRWG NO. TAM 1907057  
STRUCTURAL  
COMPONENT ONLY

|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | T8         | 2        | 1   | TRUSS DESC. |             |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 140 = 281 lb

#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| A - D  | 2x4  | DRY    | No.2   |
| D - F  | 2x4  | DRY    | No.2   |
| F - I  | 2x4  | DRY    | No.2   |
| 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 SPF

EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-p  | MT20   | 5.0 | 6.0 | 1.50 | 3.00 |
| C  | TMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TMVW-m  | MT20   | 5.0 | 6.0 | Edge | 2.00 |
| E  | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW-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  | BMV-t+p | MT20   | 3.0 | 4.0 |      |      |
| K  | BMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| L  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| M  | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| O  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| P  | BMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| Q  | BMV-t+p | MT20   | 3.0 | 4.0 |      |      |

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

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

##### BUILDING DESIGNER

##### BEARINGS

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

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |
|----|----------|------------------------------|
| JT | COMBINED | SNOW                         |
| Q  | 1620     | 922 / 0                      |
| J  | 1620     | 922 / 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 = 4.24 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 | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1      | MAX. UNBRACED LENGTH | WEBS | MEMB.     | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|--------|-----------|---------------------------|---------------------------|----------|----------------------|------|-----------|---------------------------|----------------------|
| A-B    | 0 / 42    | -102.1                    | -102.1                    | 0.14 (1) | 10.00                | P-C  | -209 / 85 | 0.09 (1)                  | 10.00                |
| B-C    | -2194 / 0 | -102.1                    | -102.1                    | 0.40 (1) | 4.24                 | C-O  | -339 / 0  | 0.32 (1)                  | 10.00                |
| C-D    | -1971 / 0 | -102.1                    | -102.1                    | 0.38 (1) | 4.44                 | O-D  | 0 / 432   | 0.10 (2)                  | 10.00                |
| D-E    | -1748 / 0 | -102.1                    | -102.1                    | 0.31 (1) | 4.74                 | D-N  | 0 / 420   | -0.09 (1)                 | 10.00                |
| E-F    | -1748 / 0 | -102.1                    | -102.1                    | 0.31 (1) | 4.74                 | N-E  | -569 / 0  | 0.28 (1)                  | 10.00                |
| F-G    | -1971 / 0 | -102.1                    | -102.1                    | 0.38 (1) | 4.44                 | N-F  | 0 / 420   | 0.09 (1)                  | 10.00                |
| G-H    | -2194 / 0 | -102.1                    | -102.1                    | 0.40 (1) | 4.24                 | L-F  | 0 / 432   | 0.10 (2)                  | 10.00                |
| H-I    | 0 / 42    | -102.1                    | -102.1                    | 0.14 (1) | 10.00                | L-G  | -339 / 0  | 0.32 (1)                  | 10.00                |
| Q-B    | -2099 / 0 | 0.0                       | 0.0                       | 0.22 (1) | 5.84                 | K-G  | -209 / 85 | 0.09 (1)                  | 10.00                |
| J-H    | -2099 / 0 | 0.0                       | 0.0                       | 0.22 (1) | 5.84                 | B-P  | 0 / 1833  | 0.41 (1)                  | 10.00                |
| Q-P    | 0 / 0     | -38.5                     | -38.5                     | 0.18 (3) | 10.00                | K-H  | 0 / 1833  | 0.41 (1)                  | 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                |      |           |                           |                      |
| M-L    | 0 / 1550  | -38.5                     | -38.5                     | 0.34 (1) | 10.00                |      |           |                           |                      |
| L-K    | 0 / 1783  | -38.5                     | -38.5                     | 0.40 (2) | 10.00                |      |           |                           |                      |
| K-J    | 0 / 0     | -38.5                     | -38.5                     | 0.18 (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 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, 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) =  $L/360$  (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")

CSI: TC=0.40/1.00 (G-H-1), BC=0.40/1.00 (K-L-2), WB=0.41/1.00 (I-K-1), SSI=0.23/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

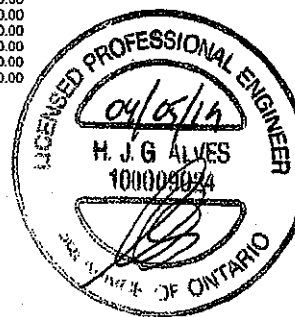
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1867 1658

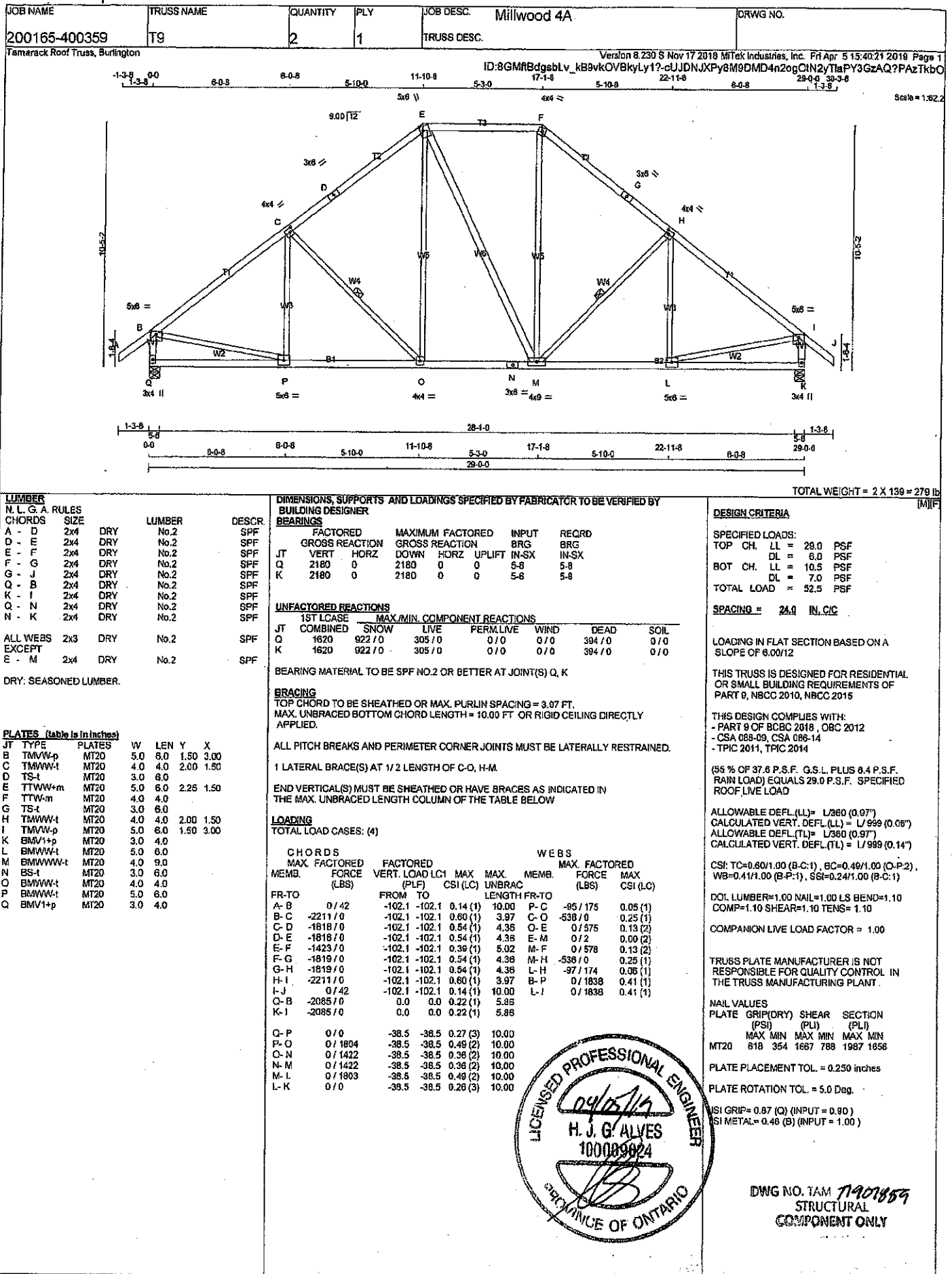
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



DRWG NO. TAM 190785B  
STRUCTURAL  
COMPONENT ONLY





|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | T10        | 1        | 2   | TRUSS DESC. |             |          |

Tamarack Roof Truss, Burlington

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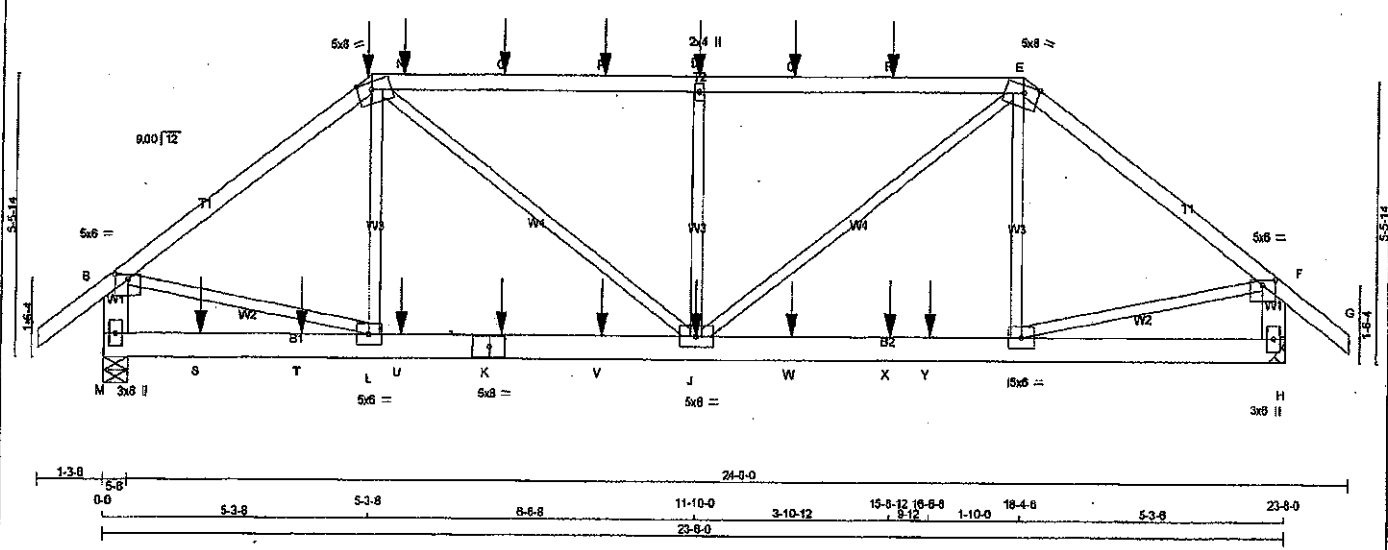
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

RECEIVED  
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TOWN OF CALEDON  
BUILDING SECTION  
FILE NO \_\_\_\_\_



DWG NO. TAM 17902860  
STRUCTURAL  
COMPONENT ONLY 7/2



**LUMBER**  
N. L. G. A. RULES

| CHORDS   | SIZE | DRY | LUMBER | DESCR. |
|----------|------|-----|--------|--------|
| A - C    | 2x4  | DRY | No.2   | SPF    |
| C - E    | 2x4  | DRY | No.2   | SPF    |
| E - G    | 2x4  | DRY | No.2   | SPF    |
| M - B    | 2x6  | DRY | No.2   | SPF    |
| H - F    | 2x6  | DRY | No.2   | SPF    |
| M - K    | 2x6  | DRY | No.2   | SPF    |
| K - H    | 2x6  | DRY | No.2   | SPF    |
| ALL WEBS | 2x3  | DRY | No.2   | SPF    |

EXCEPT  
DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                                    | SURFACE SPACING (IN) | LOAD (PLF)   |
|-------------------------------------------------|----------------------|--------------|
| <b>TOP CHORDS : (0.122"x3") SPIRAL NAILS</b>    |                      |              |
| A - C 1                                         | 12                   | SIDE (61.0)  |
| C - E 1                                         | 12                   | SIDE (61.0)  |
| E - G 1                                         | 12                   | TOP          |
| M - B 2                                         | 12                   | TOP          |
| H - F 2                                         | 12                   | TOP          |
| <b>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS</b> |                      |              |
| M - K 2                                         | 12                   | SIDE (0.0)   |
| K - H 2                                         | 12                   | SIDE (183.1) |
| <b>WEBS : (0.122"x3") SPIRAL NAILS</b>          |                      |              |
| 2x3 1                                           | 6                    |              |

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

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

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

**PLATES (table is in inches)**

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMVW-p  | MT20   | 5.0 | 8.0 | 1.25 | 3.00 |
| C TTVWV-m | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| D TMWV-w  | MT20   | 2.0 | 4.0 |      |      |
| E TTVWV-m | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| F TMVW-p  | MT20   | 5.0 | 8.0 | 1.25 | 3.00 |
| H BMVW-p  | MT20   | 3.0 | 6.0 |      |      |
| I BMWV-w  | MT20   | 5.0 | 8.0 |      |      |
| J BMWVW-w | MT20   | 5.0 | 8.0 |      |      |
| K BS-1    | MT20   | 3.0 | 6.0 |      |      |
| L BMWV-w  | MT20   | 5.0 | 8.0 |      |      |
| M BMVW-p  | MT20   | 3.0 | 6.0 |      |      |

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

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG |
|----|-------------------------|---------------------------------|-----------|------------|
|    | VERT                    | HORZ                            | DOWN      | UPLIFT     |
| JT | 3337                    | 0                               | 3337      | 0          |
| M  | 3337                    | 0                               | 3337      | 0          |
| H  | 3450                    | 0                               | 3450      | 0          |

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

**UNFACTORED REACTIONS**

|    | 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|----------|---------------------|-----------|-------|---------|-------|
|    | COMBINED  | SNOW     | LIVE                |           |       |         |       |
| JT | 2482      | 1408 / 0 | 470 / 0             | 0 / 0     | 0 / 0 | 604 / 0 | 0 / 0 |
| M  | 2557      | 1479 / 0 | 484 / 0             | 0 / 0     | 0 / 0 | 615 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. FURLIN SPACING = 3.20 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

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

| CHORDS |                           |                           |                            | WEBS     |                           |                            |               |
|--------|---------------------------|---------------------------|----------------------------|----------|---------------------------|----------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX. CSI (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |                            | FR-TO    |                           |                            |               |
| A-B    | 0 / 42                    | -102.1 -102.1             | 0.08 (1)                   | 10-00    | -216 / 284                |                            | 0.05 (1)      |
| B-C    | -3640 / 0                 | -102.1 -102.1             | 0.39 (1)                   | 4-57     | 0 / 2077                  |                            | 0.26 (1)      |
| C-N    | -4541 / 0                 | -102.1 -102.1             | 0.95 (1)                   | 3-20     | -1483 / 0                 |                            | 0.32 (1)      |
| N-O    | -4541 / 0                 | -102.1 -102.1             | 0.95 (1)                   | 3-20     | 0 / 1858                  |                            | 0.21 (1)      |
| O-P    | -4541 / 0                 | -102.1 -102.1             | 0.95 (1)                   | 3-20     | 0 / 779                   |                            | 0.10 (1)      |
| P-D    | -4541 / 0                 | -102.1 -102.1             | 0.95 (1)                   | 3-20     | 0 / 2988                  |                            | 0.37 (1)      |
| D-Q    | -4541 / 0                 | -102.1 -102.1             | 0.95 (1)                   | 3-20     | 0 / 3284                  |                            | 0.41 (1)      |
| Q-R    | -4541 / 0                 | -102.1 -102.1             | 0.95 (1)                   | 3-20     |                           |                            |               |
| R-E    | -4541 / 0                 | -102.1 -102.1             | 0.95 (1)                   | 3-20     |                           |                            |               |
| E-F    | -4028 / 0                 | -102.1 -102.1             | 0.41 (1)                   | 4-36     |                           |                            |               |
| F-G    | 0 / 42                    | -102.1 -102.1             | 0.08 (1)                   | 10-00    |                           |                            |               |
| M-B    | -3199 / 0                 | 0.0                       | 0.0                        | 12 (1)   | 7.74                      |                            |               |
| H-F    | -3496 / 0                 | 0.0                       | 0.0                        | 13 (1)   | 7.48                      |                            |               |
| M-S    | 0 / 0                     | -38.5                     | -38.5                      | 0.10 (3) | 10-00                     |                            |               |
| S-T    | 0 / 0                     | -38.5                     | -38.5                      | 0.10 (3) | 10-00                     |                            |               |
| T-L    | 0 / 0                     | -38.5                     | -38.5                      | 0.10 (3) | 10-00                     |                            |               |
| L-U    | 0 / 2903                  | -38.5                     | -38.5                      | 0.37 (1) | 10-00                     |                            |               |
| U-K    | 0 / 2903                  | -38.5                     | -38.5                      | 0.37 (1) | 10-00                     |                            |               |
| K-V    | 0 / 2903                  | -38.5                     | -38.5                      | 0.37 (1) | 10-00                     |                            |               |
| V-J    | 0 / 2903                  | -38.5                     | -38.5                      | 0.37 (1) | 10-00                     |                            |               |
| J-W    | 0 / 3233                  | -38.5                     | -38.5                      | 0.65 (1) | 10-00                     |                            |               |
| W-X    | 0 / 3233                  | -38.5                     | -38.5                      | 0.65 (1) | 10-00                     |                            |               |
| X-Y    | 0 / 3233                  | -38.5                     | -38.5                      | 0.65 (1) | 10-00                     |                            |               |
| Y-I    | 0 / 3233                  | -38.5                     | -38.5                      | 0.65 (1) | 10-00                     |                            |               |
| I-H    | 0 / 0                     | -38.5                     | -38.5                      | 0.30 (1) | 10-00                     |                            |               |

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| C  | 5-3-8   | -337 | -168 |      | BACK | VERT | TOTAL |      |       |
| D  | 11-10-0 | -93  | -91  |      | BACK | VERT | TOTAL |      |       |
| J  | 11-10-0 | -93  | -91  |      | BACK | VERT | TOTAL |      |       |
| K  | 7-11-4  | -93  | -91  |      | BACK | VERT | TOTAL |      |       |
| N  | 5-11-4  | -168 | -168 |      | BACK | VERT | TOTAL |      |       |
| O  | 7-11-4  | -168 | -168 |      | BACK | VERT | TOTAL |      |       |
| P  | 9-11-4  | -168 | -168 |      | BACK | VERT | TOTAL |      |       |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

| TOP CH.           | LL          | PSF        |
|-------------------|-------------|------------|
| LL                | 29.0        | PSF        |
| BOT CH.           | LL          | PSF        |
| LL                | 10.5        | PSF        |
| LL                | 7.0         | PSF        |
| <b>TOTAL LOAD</b> | <b>52.5</b> | <b>PSF</b> |

**SPACING = 24.0 IN. O.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 CBC 2015, 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

ALLOWABLE DEFL.(LL) = L/360 (0.79")  
CALCULATED VERT. DEFL.(LL) = 1/999 (0.11")  
ALLOWABLE DEFL.(TL) = L/360 (0.79")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.19")  
CSI: TC=0.95/1.00 (C-D:1), BC=0.65/1.00 (J-J:1), WB=0.41/1.00 (F-I:1), SS=0.39/1.00 (J-J:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
COMP=1.00 SHEAR=1.00 TENS=1.00  
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PLI) | (PLI)   |
| MT20  | 618       | 354   | 1887    |

PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.  
JSI GRIP= 0.84 (B) (INPUT = 0.90)  
JSI METAL = 0.79 (K) (INPUT = 1.00)

DWG NO. TAM17907861  
STRUCTURAL  
COMPONENT ONLY  
1/2

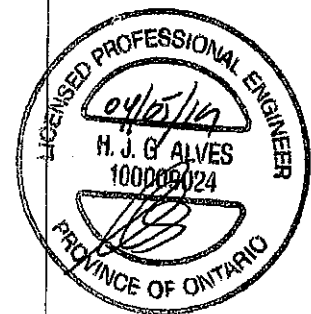
|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | T11        | 1        | 2   | TRUSS DESC. |             |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Fri Apr 5 15:40:23 2019 Page 2  
ID:8GMfBdqsblV kB9vKOV8kylY1?YfR o?YfJmctSfNSvTr8TfSj?HOfSfZQUv6T2zTkblM

FACTORED CONCENTRATED LOADS (LBS)

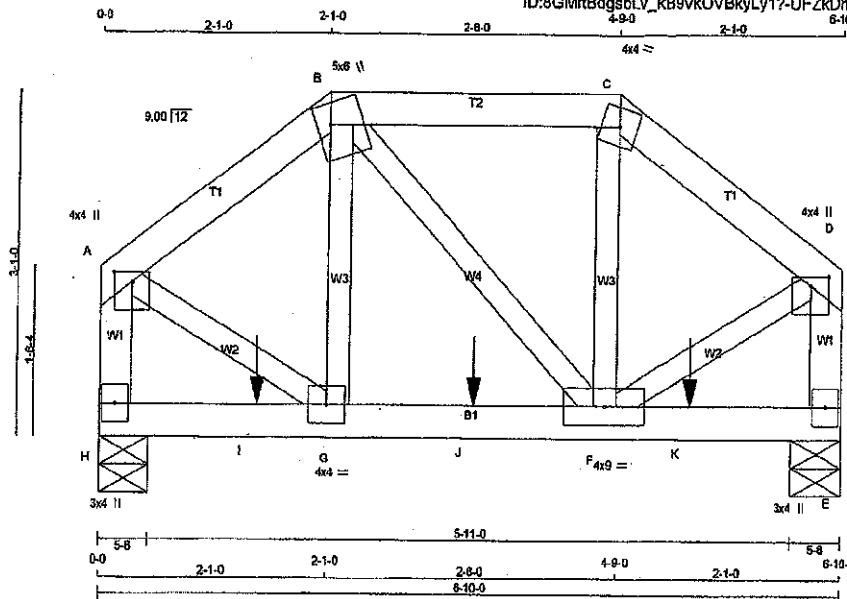
| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|------|------|-------|------|-------|
| Q  | 13-8-12 | -188  | -188  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| R  | 15-8-12 | -188  | -188  | ---  | BACK | VERT | TOTAL | ---  | ---   |
| S  | 1-11-4  | -83   | -81   | ---  | BACK | VERT | TOTAL | ---  | ---   |
| T  | 3-11-4  | -83   | -81   | ---  | BACK | VERT | TOTAL | ---  | ---   |
| U  | 5-11-4  | -83   | -81   | ---  | BACK | VERT | TOTAL | ---  | ---   |
| V  | 9-11-4  | -83   | -81   | ---  | BACK | VERT | TOTAL | ---  | ---   |
| W  | 13-8-12 | -83   | -81   | ---  | BACK | VERT | TOTAL | ---  | ---   |
| X  | 15-8-12 | -83   | -81   | ---  | BACK | VERT | TOTAL | ---  | ---   |
| Y  | 16-8-8  | -1308 | -1308 | ---  | BACK | VERT | TOTAL | ---  | ---   |



DWG NO. TAM 71907861  
STRUCTURAL  
COMPONENT ONLY

3/2

|                                  |                          |                      |                 |                                 |          |
|----------------------------------|--------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>200165-400359</b> | TRUSS NAME<br><b>T12</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>Millwood 4A</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington  |                          |                      |                 |                                 |          |



TOTAL WEIGHT = 2 X 30 = 60 lb

#### LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF) |
|------------------------------------------|----------------------|------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |            |
| A-B                                      | 12                   | SIDE (5.5) |
| B-C                                      | 12                   | SIDE (6.9) |
| C-D                                      | 12                   | SIDE (5.5) |
| H-A                                      | 12                   | TOP        |
| E-D                                      | 12                   | TOP        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |            |
| H-E                                      | 12                   | SIDE (3.3) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |            |
| 2x3                                      | 6                    |            |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

#### PLATES (table is in inches)

| JT TYPE | PLATES  | W    | LEN | Y   | X         |
|---------|---------|------|-----|-----|-----------|
| A       | TMVW+p  | MT20 | 4.0 | 4.0 | 1.00 2.00 |
| B       | TTWW+m  | MT20 | 5.0 | 6.0 | 2.25 1.50 |
| C       | TTW-m   | MT20 | 4.0 | 4.0 |           |
| D       | TMVW+p  | MT20 | 4.0 | 4.0 | 1.00 2.00 |
| E       | BMV1+p  | MT20 | 3.0 | 4.0 |           |
| F       | BMVWW-I | MT20 | 4.0 | 4.0 |           |
| G       | BMVW-I  | MT20 | 4.0 | 4.0 |           |
| H       | BMV1+p  | MT20 | 3.0 | 4.0 |           |

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

| BUILDING DESIGNER |                |      |  |                  |      |        |       |       |  |  |
|-------------------|----------------|------|--|------------------|------|--------|-------|-------|--|--|
| <u>BEARINGS</u>   |                |      |  |                  |      |        |       |       |  |  |
|                   | FACTORED       |      |  | MAXIMUM FACTORED |      |        | INPUT | REQRD |  |  |
|                   | GROSS REACTION |      |  | GROSS REACTION   |      |        | BRG   | BRG   |  |  |
| JT                | VERT           | HORZ |  | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX |  |  |
| H                 | 1272           | 0    |  | 1272             | 0    | 0      | 5-8   | 5-8   |  |  |
| E                 | 1280           | 0    |  | 1280             | 0    | 0      | 5-8   | 5-8   |  |  |

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX/MIN COMPONENT REACTIONS | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|-----------------------------|---------|-------|-----------|-------|---------|-------|
| H  | 927       | 585 / 0                     | 133 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 209 / 0 | 0 / 0 |
| E  | 933       | 589 / 0                     | 134 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 211 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, 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 |             | FACTORED         |               | WEBS  |             | FACTORED      |               |
|--------|-------------|------------------|---------------|-------|-------------|---------------|---------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | FORCE (LBS) | MAX. CSI (LC) | MAX. CSI (LC) |
| FR-TO  |             | FROM TO          |               | FR-TO |             |               |               |
| A-B    | -977 / 0    | -115.9 -115.9    | 0.05 (1)      | G-B   | 0 / 312     | 0.04 (1)      |               |
| B-C    | -793 / 0    | -115.9 -115.9    | 0.08 (1)      | B-F   | 0 / 5       | 0.00 (1)      |               |
| C-D    | -981 / 0    | -115.9 -115.9    | 0.05 (1)      | F-C   | 0 / 318     | 0.04 (1)      |               |
| H-A    | -1136 / 0   | 0.0 0.0          | 0.07 (1)      | A-G   | 0 / 387     | 0.11 (1)      |               |
| E-D    | -1140 / 0   | 0.0 0.0          | 0.07 (1)      | F-D   | 0 / 390     | 0.11 (1)      |               |
| H-I    | 0 / 0       | -43.7 -43.7      | 0.13 (1)      |       |             |               |               |
| I-G    | 0 / 0       | -43.7 -43.7      | 0.13 (1)      |       |             |               |               |
| G-J    | 0 / 790     | -43.7 -43.7      | 0.21 (1)      |       |             |               |               |
| J-F    | 0 / 790     | -43.7 -43.7      | 0.21 (1)      |       |             |               |               |
| F-K    | 0 / 0       | -43.7 -43.7      | 0.14 (1)      |       |             |               |               |
| K-E    | 0 / 0       | -43.7 -43.7      | 0.14 (1)      |       |             |               |               |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|-------|------|------|------|------|------|-------|------|-------|
| I  | 1-5-4 | -487 | -487 | --   | TOP  | VERT | TOTAL | --   | --    |
| J  | 3-5-4 | -487 | -487 | --   | TOP  | VERT | TOTAL | --   | --    |
| K  | 5-5-4 | -487 | -487 | --   | TOP  | VERT | TOTAL | --   | --    |

#### 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

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

\*\*\* NON STANDARD GIRDER \*\*\*

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2010, OBC 2012  
- CSA 086-09, CSA 086-14  
- TPIC 2011, 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 (0.23")  
CALCULATED VERT. DEFL. (LL) = U/999 (0.01")  
ALLOWABLE DEFL. (TL) = L/360 (0.23")  
CALCULATED VERT. DEFL. (TL) = U/999 (0.01")

CSI: TC=0.08/1.00 (B-C:1), BC=0.21/1.00 (F-G:1), WB=0.11/1.00 (D-F:1), SS=0.19/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

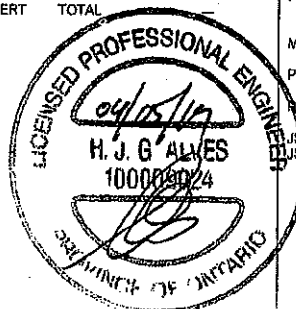
#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

GRIP=0.52 (D) (INPUT = 0.90)  
METAL=0.15 (G) (INPUT = 1.00)



DRWG NO. TAM 17907862  
STRUCTURAL  
COMPONENT ONLY

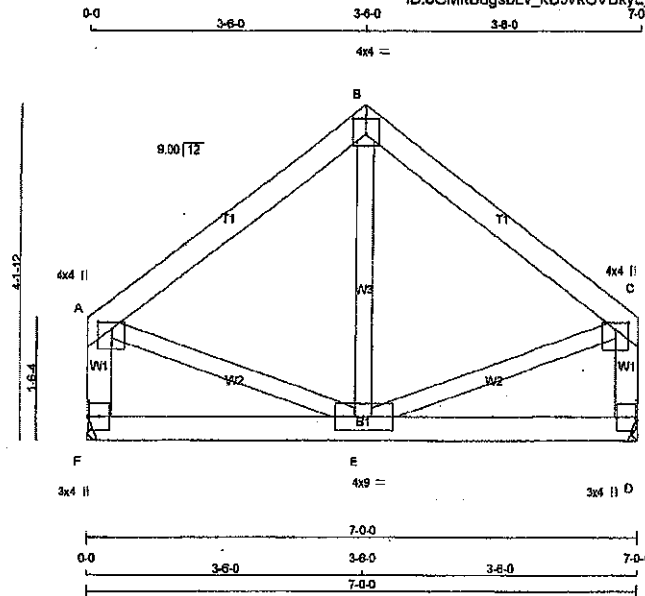
|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | T13        | 3        | 1   | TRUSS DESC. |             |          |

Tamrack Roof Truss, Burlington

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Scale = 1:25.5



TOTAL WEIGHT = 3 X 29 = 87 lb

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

| PLATES (table is in inches) | JT      | TYPE | PLATES | W   | LEN  | Y    | X |
|-----------------------------|---------|------|--------|-----|------|------|---|
| A                           | TMVW+p  | MT20 | 4.0    | 4.0 | 1.00 | 2.00 |   |
| B                           | TTW-p   | MT20 | 4.0    | 4.0 | 2.25 | 2.00 |   |
| C                           | TMVW+p  | MT20 | 4.0    | 4.0 | 1.00 | 2.00 |   |
| D                           | BMV1+p  | MT20 | 3.0    | 4.0 |      |      |   |
| E                           | BMVWW-1 | MT20 | 4.0    | 0.0 |      |      |   |
| F                           | BMV1+p  | MT20 | 3.0    | 4.0 |      |      |   |

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

| BEARINGS |                |      |                  |      |        |            |       |
|----------|----------------|------|------------------|------|--------|------------|-------|
|          | FACTORED       |      | MAXIMUM FACTORED |      | INPUT  | REQD       |       |
|          | GROSS REACTION |      | GROSS REACTION   |      | BRG    | BRG        |       |
| JT       | VERT           | HORZ | DOWN             | HORZ | UPLIFT | IN-SX      | IN-SX |
| F        | 492            | 0    | 492              | 0    | 0      | MECHANICAL |       |
| D        | 492            | 0    | 492              | 0    | 0      | MECHANICAL |       |

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

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN. COMPONENT REACTIONS |        |          |       |        |       |
|-----------|----------|------------------------------|--------|----------|-------|--------|-------|
| JT        | COMBINED | SNOW                         | LIVE   | PERMLIVE | WIND  | DEAD   | SOIL  |
| F         | 388      | 203 / 0                      | 74 / 0 | 0 / 0    | 0 / 0 | 01 / 0 | 0 / 0 |
| D         | 368      | 203 / 0                      | 74 / 0 | 0 / 0    | 0 / 0 | 01 / 0 | 0 / 0 |

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |              | WEBS               |       |                           |              |          |
|--------|---------------------------|---------------------------|--------------|--------------------|-------|---------------------------|--------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |          |
| FR-TO  |                           | FROM TO                   |              |                    | FR-TO |                           |              |          |
| A-B    | -299/0                    | -102.1                    | -102.1       | 0.24 (1)           | 0.25  | E-B                       | 0/130        | 0.03 (3) |
| B-C    | -299/0                    | -102.1                    | -102.1       | 0.24 (1)           | 0.25  | A-E                       | 0/253        | 0.06 (1) |
| F-A    | -440/0                    | 0.0                       | 0.0          | 0.05 (1)           | 7.81  | E-C                       | 0/253        | 0.06 (1) |
| D-C    | -440/0                    | 0.0                       | 0.0          | 0.05 (1)           | 7.81  |                           |              |          |
| F-E    | 0/0                       | -38.5                     | -38.5        | 0.11 (3)           | 10.00 |                           |              |          |
| E-D    | 0/0                       | -38.5                     | -38.5        | 0.11 (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 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2016, 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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.23")  
CALCULATED VERT. DEFL.(LL) =  $L/899$  (0.01")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.23")  
CALCULATED VERT. DEFL.(TL) =  $L/899$  (0.01")

CSI: TC=0.24/1.00 (B-C:1), BC=0.11/1.00 (D-E:3),  
WB=0.08/1.00 (A-E:1), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

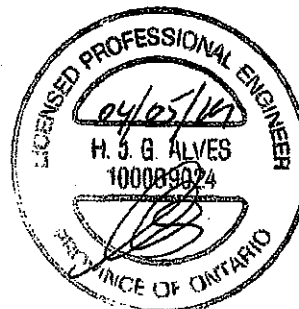
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

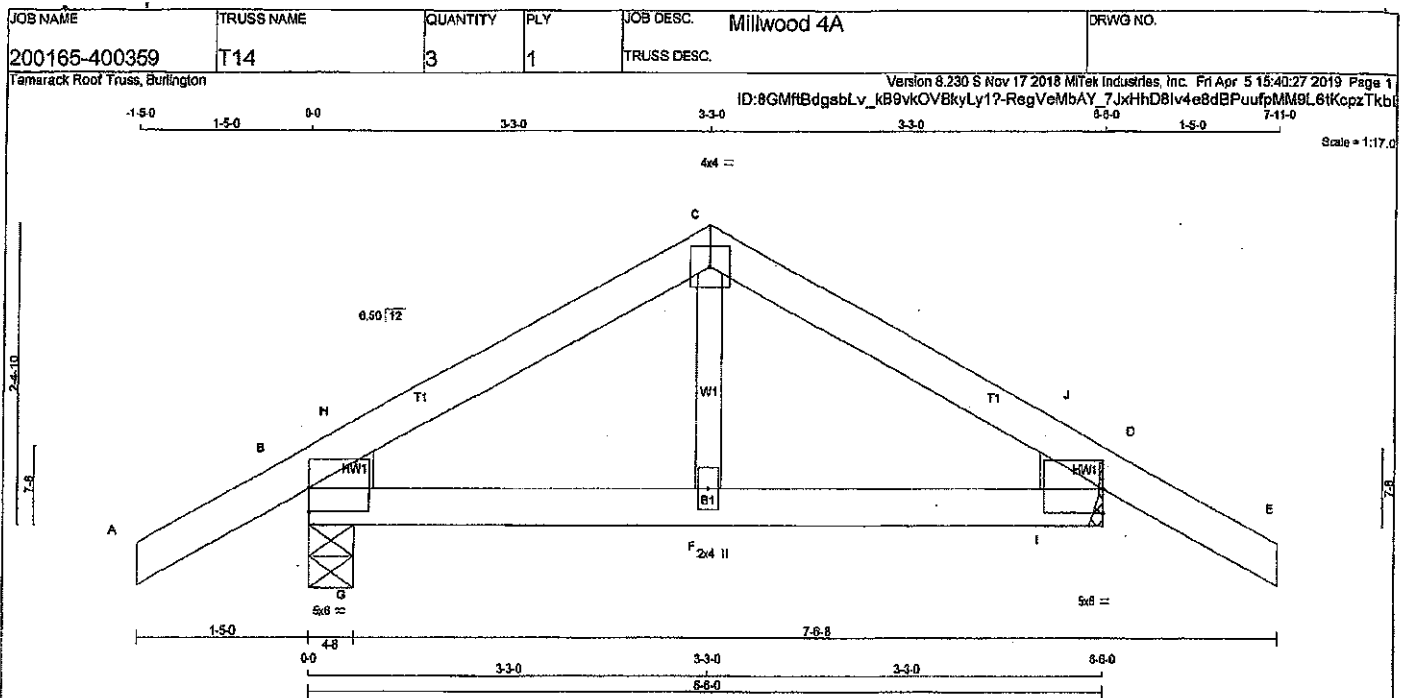
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.41 (C) (INPUT = 0.90)  
JSI METAL= 0.11 (C) (INPUT = 1.00)



DRWG NO. TAM 17407863  
STRUCTURAL  
COMPONENT ONLY



TOTAL WEIGHT = 3 X 23 = 68 lb

**LUMBER**

N. L. G. A. RULES

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

**PLATES (table in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X |
|----|---------|--------|-----|-----|------|---|
| B  | TMBMH-1 | MT20   | 5.0 | 6.0 | 2.25 |   |
| C  | TTV-p   | MT20   | 4.0 | 4.0 |      |   |
| D  | TMBMH-1 | MT20   | 5.0 | 6.0 | 2.25 |   |
| F  | BMW-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 IN-SX | REQD BRG IN-SX | HEEL WEDGE |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |            |
| S  | 609                     | 0    | 609                             | 0    | 4-8             | 4-8            | 2x4 L      |
| D  | 609                     | 0    | 609                             | 0    | MECHANICAL      |                | 2x4 R      |

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

**UNFACTORED REACTIONS**

1ST LCASE MAX./MIN. COMPONENT REACTIONS

| JT | COMBINED | SNOW    | LIVE   | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|--------|------------|-------|---------|-------|
| B  | 446      | 275 / 0 | 68 / 0 | 0 / 0      | 0 / 0 | 102 / 0 | 0 / 0 |
| D  | 446      | 275 / 0 | 68 / 0 | 0 / 0      | 0 / 0 | 102 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS                       |       |                           |               |
|--------|---------------------------|---------------------------|---------------|----------------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |               |                            | FR-TO |                           |               |
| A-B    | 0 / 24                    | -102.1 -102.1             | 0.16 (1)      | 10.00                      | F-C   | 0 / 182                   | 0.04 (2)      |
| B-H    | -522 / 0                  | -102.1 -102.1             | 0.08 (1)      | 6.25                       | G-H   | -28 / 105                 | 0.00 (1)      |
| H-C    | -444 / 0                  | -102.1 -102.1             | 0.10 (1)      | 6.25                       | I-J   | -28 / 105                 | 0.00 (1)      |
| C-J    | -444 / 0                  | -102.1 -102.1             | 0.10 (1)      | 6.25                       |       |                           |               |
| J-D    | -522 / 0                  | -102.1 -102.1             | 0.08 (1)      | 6.25                       |       |                           |               |
| D-E    | 0 / 24                    | -102.1 -102.1             | 0.16 (1)      | 10.00                      |       |                           |               |
| B-G    | 0 / 382                   | -38.5 -38.5               | 0.10 (1)      | 10.00                      |       |                           |               |
| G-F    | 0 / 382                   | -38.5 -38.5               | 0.13 (1)      | 10.00                      |       |                           |               |
| F-I    | 0 / 382                   | -38.5 -38.5               | 0.13 (1)      | 10.00                      |       |                           |               |
| I-D    | 0 / 382                   | -38.5 -38.5               | 0.10 (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. C/C**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012  
- CSA 086-09, CSA 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 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.22")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.22")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.16/1.00 (A-B-1), BC=0.13/1.00 (F-G-1),  
WB=0.04/1.00 (C-F-2), SS=0.11/1.00 (C-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 618 354 1667 788 1987 1656

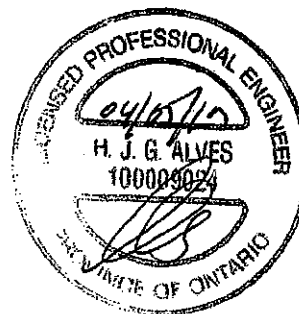
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (B) (INPUT = 0.90)  
JSI METAL= 0.12 (B) (INPUT = 1.00)

RECEIVED  
AUG 23 2019

TOWN OF CALEDON  
BUILDING SECTION  
FILE NO.



DWG NO. TAM 1907864  
STRUCTURAL  
COMPONENT ONLY

JOB NAME

200165-400359

TRUSS NAME

T15

QUANTITY

1

PLY

2

JOB DESC.

Millwood 4A

DRWG NO.

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:40:28 2019 Page 1

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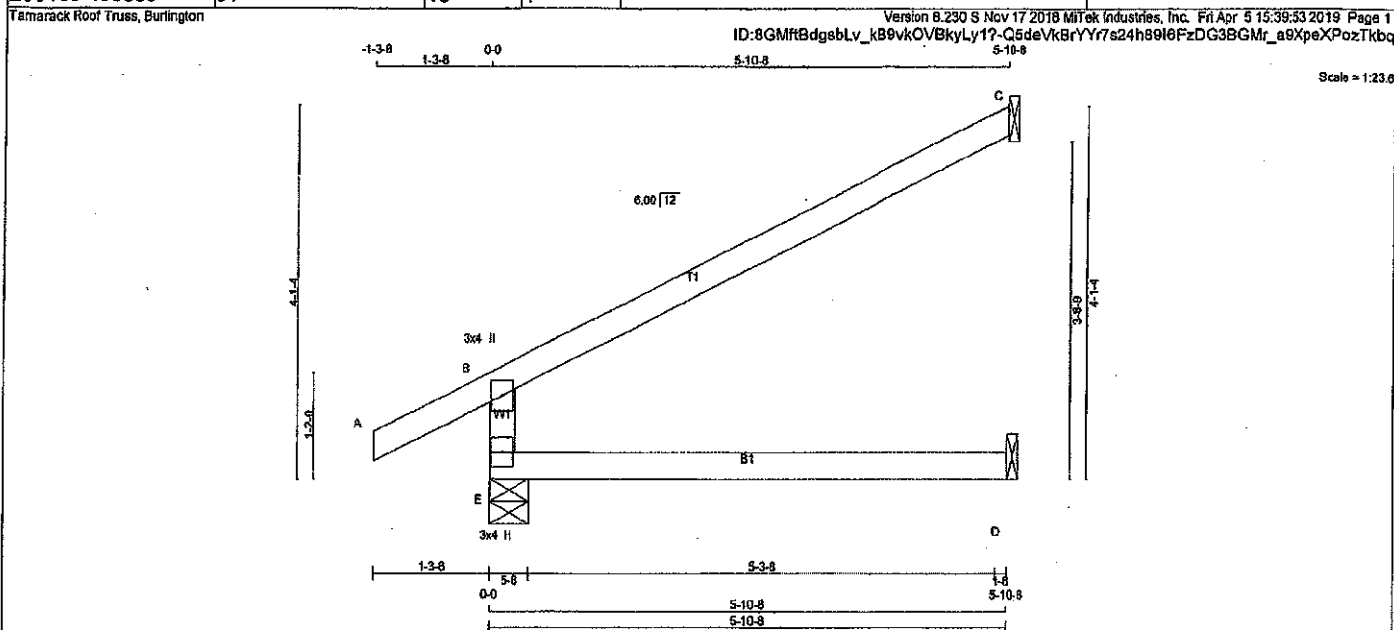
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|---------------------------------|------------|-------------|-----|-----------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                         | DRWG NO. |
| 200165-400359                   | J1         | 10          | 1   | Millwood 4A                                                                       |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:39:33 2019 Page 1 |          |



#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |   |   |
| E  | BMV1+p | MT20   | 3.0 | 4.0 |   |   |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| E  | 846                     | 846                             | 5-8       | 5-8       |
| C  | 225                     | 225                             | 1-8       | 1-8       |
| D  | 93                      | 119                             | 0         | 1-8       |

SEE MITEK STANDARD DETAIL B37B21H 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       | 292/0                        | 72/0 | 0/0  | 0/0        | 109/0 | 0/0  | 0/0  |
| C  | 154       | 128/0                        | 0/0  | 0/0  | 0/0        | 26/0  | 0/0  | 0/0  |
| D  | 85        | 0/0                          | 51/0 | 0/0  | 0/0        | 34/0  | 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 | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) | MEMB. LENGTH 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                       | -38.5                     | -38.5                          | 0.22 (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 = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, NBCC 2015  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

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

(55% OF 37.6 P.S.F. O.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/899 (0.04")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/942 (0.07")

CSI: TC=0.80/1.00 (B-C:1), BC=0.22/1.00 (D-E:3), WB=0.00/1.00 (n/a:0), SS=0.28/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE GRIP(DRY) SHEAR SECTION (PSI) | (PLI)   | (PLI)    |
|-------------------------------------|---------|----------|
| MAX MIN                             | MAX MIN | MAX MIN  |
| MT20                                | 610 354 | 1887 788 |

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)

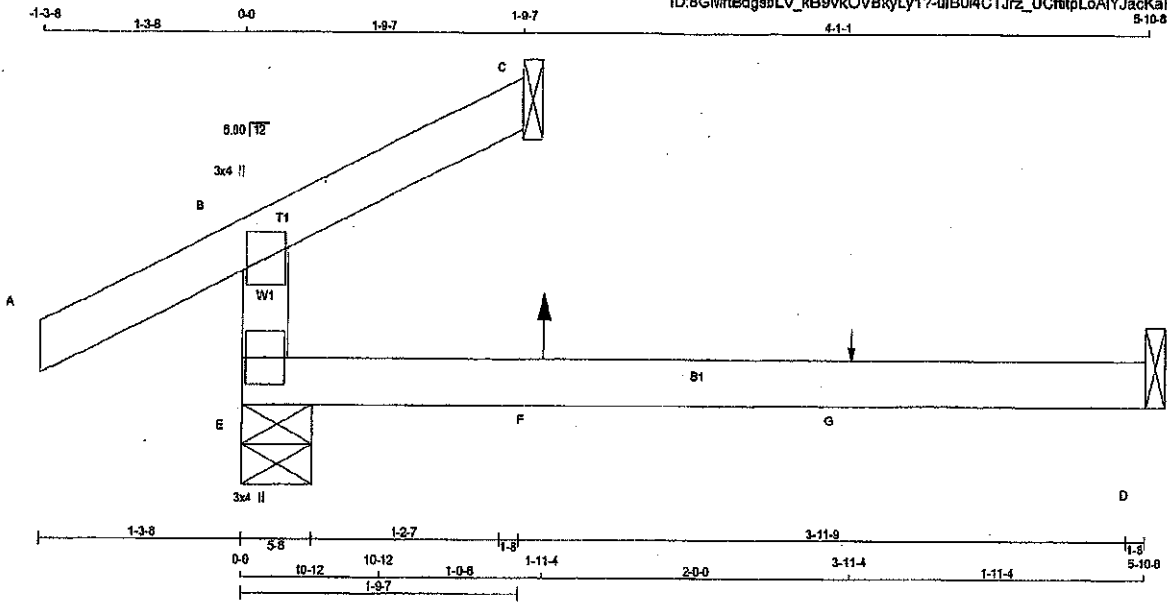


DWG NO. TAM 11402036  
STRUCTURAL  
COMPONENT ONLY

|                                 |            |             |     |             |          |
|---------------------------------|------------|-------------|-----|-------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.   | DRWG NO. |
| 200165-400359                   | J2         | 2           | 1   | Millwood 4A |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |             |          |

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ID:8GMHtEdgsbLv\_kB9vkOVbKyLy1?uB04CTJrz\_UCf6tpLoAIYJacKaRqIITN4yEzTkbp  
5-10.8

Scale = 1:13.5



TOTAL WEIGHT = 2 X 12 = 23 lb

#### LUMBER

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

LUMBER  
No.2  
No.2  
No.2

DESCR.  
SPF  
SPF  
SPF

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMA+p  | MT20   | 3.0 | 4.0 |   |   |
| E  | 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 |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| JT | 352                     | 0    | 352                             | 0    | 5-8       | 5-8      |
| E  | 94                      | 0    | 97                              | 0    | 1-8       | 1-8      |
| C  | 94                      | 0    | 123                             | 0    | 1-8       | 1-8      |

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

##### UNFACTORED REACTIONS

| JT | COMBINED | MAX/MIN COMPONENT REACTIONS |        |       |           |        |       |
|----|----------|-----------------------------|--------|-------|-----------|--------|-------|
|    |          | 1ST LOASE                   | SNOW   | LIVE  | PERM.LIVE | WIND   | DEAD  |
| E  | 259      | 156 / 0                     | 42 / 0 | 0 / 0 | 0 / 0     | 61 / 0 | 0 / 0 |
| C  | 76       | 24 / 0                      | 28 / 0 | 0 / 0 | 0 / 0     | 24 / 0 | 0 / 0 |
| D  | 85       | 0 / -3                      | 53 / 0 | 0 / 0 | 0 / 0     | 35 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (7)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED MAX. LOAD LC1 (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO |
|-------|---------------------------|---------------------------|-----------------------------|----------------------------|-------|---------------------------|----------------------------|
|       |                           |                           |                             |                            |       |                           |                            |
| FR-TO |                           |                           |                             |                            |       |                           |                            |
| E-B   | -229 / 25                 | 0.0                       | 0.0                         | 0.16 (3)                   | 7.81  |                           |                            |
| A-B   | 0 / 31                    | -102.1                    | -102.1                      | 0.15 (1)                   | 10.00 |                           |                            |
| B-C   | 0 / 27                    | -102.1                    | -102.1                      | 0.16 (3)                   | 10.00 |                           |                            |
| E-F   | 0 / 0                     | -38.5                     | -38.5                       | 0.23 (3)                   | 10.00 |                           |                            |
| F-G   | 0 / 0                     | -38.5                     | -38.5                       | 0.23 (3)                   | 10.00 |                           |                            |
| G-D   | 0 / 0                     | -38.5                     | -38.5                       | 0.23 (3)                   | 10.00 |                           |                            |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX | MAX+ | FACE  | DIR  | TYPE  | HEEL | CONN. |
|----|--------|-----|-----|------|-------|------|-------|------|-------|
| F  | 1-11-4 | 8   | 1   | 13   | FRONT | VERT | TOTAL |      |       |
| G  | 3-11-4 | 1   | 1   |      | FRONT | VERT | TOTAL |      |       |

#### 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. 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 2010, OBC 2012  
- CSA 086-08, CSA 086-14  
- TPIC 2011, 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) =  $L/989$  (0.05")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/839$  (0.08")

CSI: TC=0.18/1.00 (B-E-3), BC=0.23/1.00 (D-E-3), WB=0.00/1.00 (n/a-0), SS=0.14/1.00 (D-E-3)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

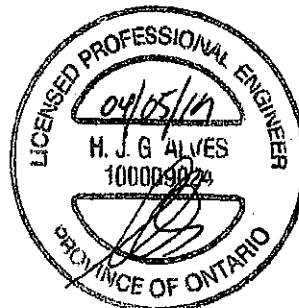
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 786 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.90)  
JSI METAL= 0.06 (B) (INPUT = 1.00)

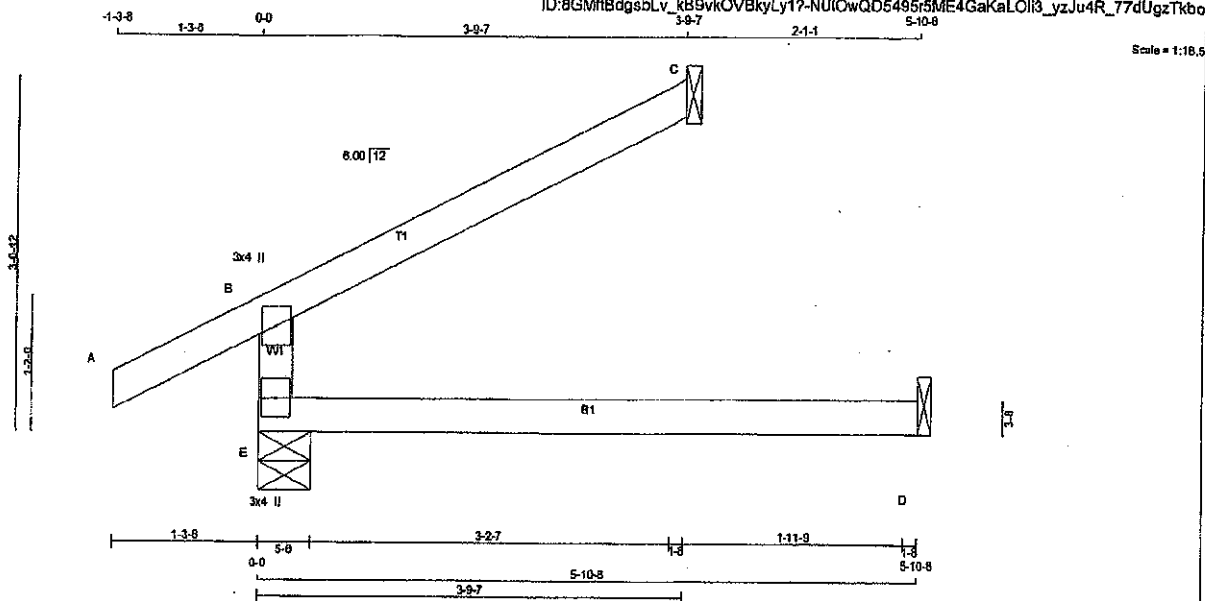


DWG NO. TAM 11901837  
STRUCTURAL  
COMPONENT ONLY

|               |            |          |     |             |             |          |
|---------------|------------|----------|-----|-------------|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | Millwood 4A | DRWG NO. |
| 200165-400359 | J3         | 2        | 1   | TRUSS DESC. |             |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 14 = 28 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       | TMV+p  | MT20 | 3.0 | 4.0 |   |
| E       | BMV1+p | 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 | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| E  | 513                     | 0    | 513                             | 0    | 5-8       | 5-8        |
| C  | 145                     | 0    | 145                             | 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

| JT | 1ST CASE |       | MAX/MIN COMPONENT REACTIONS |      | WIND | DEAD | SOIL |
|----|----------|-------|-----------------------------|------|------|------|------|
|    | COMBINED | SNOW  | LIVE                        | PERM |      |      |      |
| E  | 381      | 216/0 | 72/0                        | 0/0  | 0/0  | 93/0 | 0/0  |
| C  | 100      | 83/0  | 0/0                         | 0/0  | 0/0  | 17/0 | 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, C

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |        | WEBS         |                    |       |                           |               |
|--------|---------------------------|---------------------------|--------|--------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1    | MAX CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
| FR-TO  |                           | FROM TO                   |        |              | FR-TO              |       |                           |               |
| E-B    | -380/0                    | 0.0                       | 0.0    | 0.21 (3)     | 7.81               |       |                           |               |
| A-B    | 0/31                      | -102.1                    | -102.1 | 0.13 (1)     | 10.00              |       |                           |               |
| B-C    | -22/0                     | -102.1                    | -102.1 | 0.25 (1)     | 6.25               |       |                           |               |
| E-D    | 0/0                       | -38.5                     | -38.5  | 0.21 (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 2010, NBCC 2015

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

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 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) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.04")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/942$  (0.07")

CSI: TO=0.25/1.00 (B-C:1), BC=0.21/1.00 (D-E:3),  
WB=0.00/1.00 (n/a:0), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

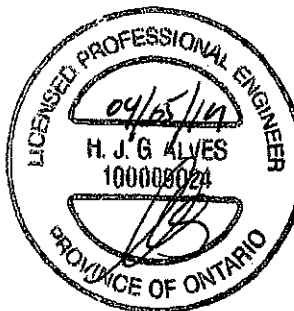
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| MT20  | 818       | 354         | 1667          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (E) (INPUT = 0.90)  
JSI METAL= 0.11 (B) (INPUT = 1.00)

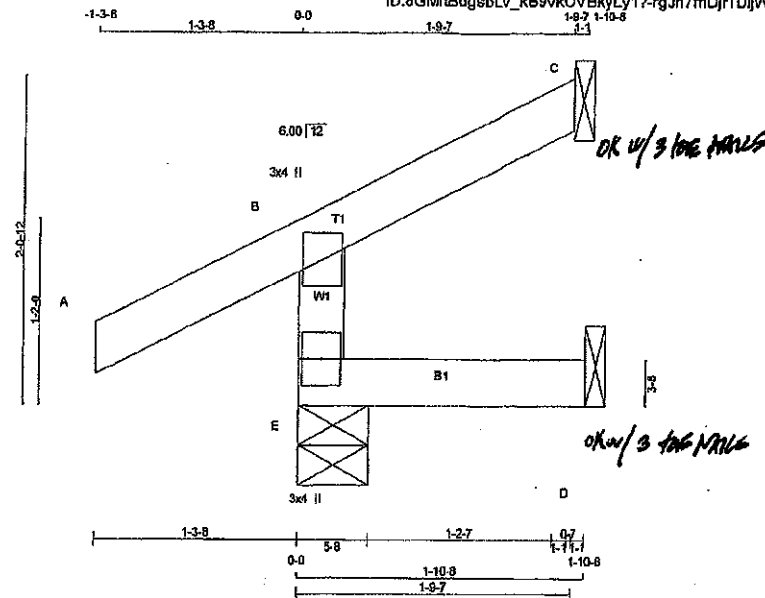


DRWG NO. TAM 19070330  
STRUCTURAL  
COMPONENT ONLY

|               |            |          |     |             |          |
|---------------|------------|----------|-----|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 200165-400359 | J4         | 2        | 1   | Millwood 4A |          |

Tamarack Roof Truss, Burlington

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Scale = 1/13.5

TOTAL WEIGHT = 2 X 7 = 14 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                           | TMV+p   | MT20   | 3.0 | 4.0 |   |   |
| E                           | BMV1+p  | 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 |           |           |
| E  | 318                     | 0    | 318                             | 0    | 5-8       | 5-8       |
| C  | 51                      | 0    | 51                              | 0    | 1-8       | 1-8       |
| D  | 24                      | 0    | 41                              | 0    | 1-8       | 1-8       |

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

| JT | 1ST LCASE |         | MAX/MIN. COMPONENT REACTIONS |            | WIND | DEAD | SOIL |
|----|-----------|---------|------------------------------|------------|------|------|------|
|    | COMBINED  | SNOW    | LIVE                         | PERM. LIVE |      |      |      |
| E  | 226       | 160/0   | 20/0                         | 0/0        | 0/0  | 46/0 | 0/0  |
| C  | 36        | 27/1-21 | 2/0                          | 0/0        | 0/0  | 7/0  | 0/0  |
| D  | 24        | 0/9     | 18/0                         | 0/0        | 0/0  | 11/0 | 0/0  |

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

| MEMB. | CHORDS      |                  | FACTORED         |           | MAX. FACTORED | MEMB. | WEBS        |           | MAX. FACTORED |
|-------|-------------|------------------|------------------|-----------|---------------|-------|-------------|-----------|---------------|
|       | FORCE (LBS) | VERT. LOAD (LBS) | VERT. LOAD (LBS) | CS1 (LBS) |               |       | FORCE (LBS) | CS1 (LBS) |               |
| FR-TO |             |                  |                  |           |               |       |             |           |               |
| E-B   | -270/0      | 0.0              | 0.0              | 0.04 (5)  | 7.81          |       |             |           |               |
| A-B   | 0/31        | -102.1           | -102.1           | 0.13 (1)  | 10.00         |       |             |           |               |
| B-C   | -18/0       | -102.1           | -102.1           | 0.10 (1)  | 6.25          |       |             |           |               |
| E-D   | 0/0         | -38.5            | -38.5            | 0.04 (5)  | 10.00         |       |             |           |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.8 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 (0.19')  
CALCULATED VERT. DEFL.(LL) = L/989 (0.80')  
ALLOWABLE DEFL.(TL) = L/360 (0.19')  
CALCULATED VERT. DEFL.(TL) = L/989 (0.80')

CSI: TC=0.13/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),  
WB=0.00/1.00 (n/a:0), SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR    | SECTION   |
|-------|-----------|----------|-----------|
|       | (PSI)     | (PLI)    | (PLI)     |
|       | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20  | 518 354   | 1687 788 | 1987 1688 |

PLATE PLACEMENT TOL = 0.250 inches

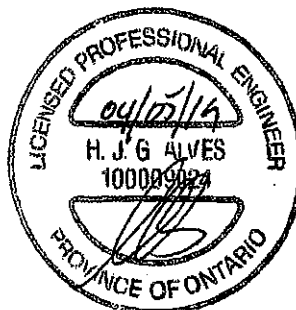
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.11 (E) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 1.00)

DWG NO. TAM 1907839  
STRUCTURAL  
COMPONENT ONLY

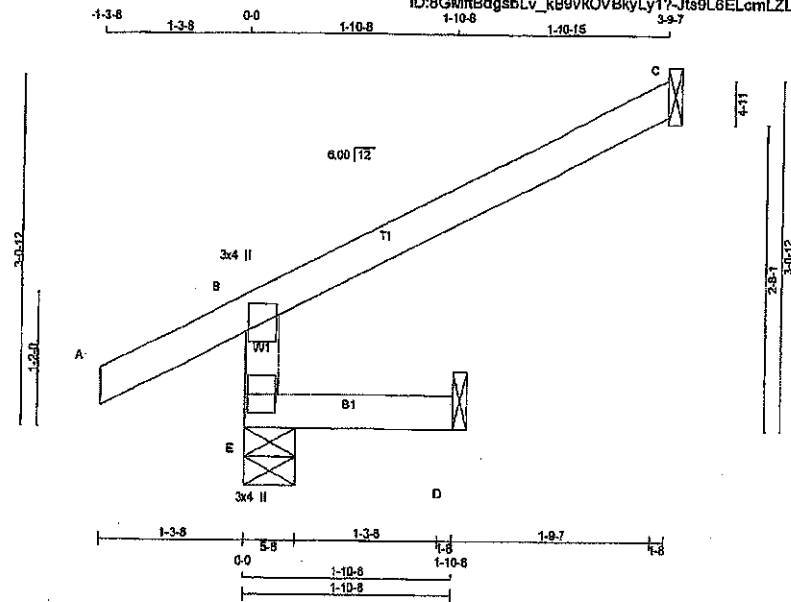
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AUG 23 2019

TOWN OF CALEDON  
BUILDING SECTION  
FILE NO.



|                                 |            |          |     |             |          |
|---------------------------------|------------|----------|-----|-------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 200165-400359                   | J5         | 2        | 1   | Millwood 4A |          |
| Tamarack Roof Truss, Burlington |            |          |     |             |          |

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Scale = 1:18.7

TOTAL WEIGHT = 2 X 10 = 19 lb

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |      |     |     |
|-----------------------------|--------|------|-----|-----|
| JT TYPE                     | PLATES | W    | LEN | Y X |
| B                           | TMV+p  | MT20 | 3.0 | 4.0 |
| E                           | BMV1+p | MT20 | 3.0 | 4.0 |

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

| BEARINGS |      | FACTORED |      | MAXIMUM FACTORED |        | INPUT |       | REQD |       |
|----------|------|----------|------|------------------|--------|-------|-------|------|-------|
| JT       | VERT | HORZ     | DOWN | HORZ             | UPLIFT | BRG   | IN-SX | BRG  | IN-SX |
| E        | 420  | 0        | 420  | 0                | 0      | 5-8   | 5-8   | 5-8  | 5-8   |
| C        | 145  | 0        | 145  | 0                | 0      | 1-8   | 1-8   | 1-8  | 1-8   |
| D        | 32   | 0        | 41   | 0                | 0      | 1-8   | 1-8   | 1-8  | 1-8   |

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

| UNFACTORED REACTIONS |          | 1ST LCASE |        | MAX/MIN COMPONENT REACTIONS |       | WEBS   |       |
|----------------------|----------|-----------|--------|-----------------------------|-------|--------|-------|
| JT                   | COMBINED | SNOW      | LIVE   | PERM/LIVE                   | WIND  | DEAD   | SOIL  |
| E                    | 287      | 216 / 0   | 22 / 0 | 0 / 0                       | 0 / 0 | 59 / 0 | 0 / 0 |
| C                    | 100      | 83 / 0    | 0 / 0  | 0 / 0                       | 0 / 0 | 17 / 0 | 0 / 0 |
| D                    | 29       | 0 / 0     | 18 / 0 | 0 / 0                       | 0 / 0 | 12 / 0 | 0 / 0 |

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

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

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

**LOADING**  
TOTAL LOAD CASES: (5)

| CHORDS |             | FACTORED         |               | WEBS                 |                   |
|--------|-------------|------------------|---------------|----------------------|-------------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX. (LC) | MAX. UNBRACED LENGTH | MEMB. FORCE (LBS) |
| FR-TO  |             |                  |               |                      |                   |
| E-B    | -380 / 0    | 0.0              | 0.0 (0.13)    | 7.81                 |                   |
| A-B    | 0 / 31      | -102.1           | -102.1 (0.13) | 10.00                |                   |
| B-C    | -22 / 0     | -102.1           | -102.1 (0.25) | 6.25                 |                   |
| E-D    | 0 / 0       | -38.5            | -38.5 (0.03)  | 10.00                |                   |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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, OBC 2012  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

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

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

CSI: TC=0.25/1.00 (B-C-1), BC=0.03/1.00 (D-E-3),  
WB=0.00/1.00 (n/a-0), SSI=0.17/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

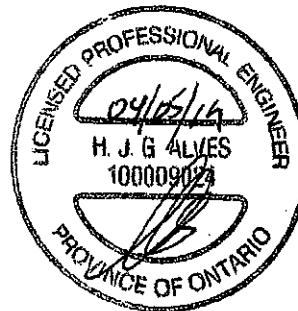
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |           |       |         |
|-------------|-----------|-------|---------|
| PLATE       | GRIP(DRY) | SHEAR | SECTION |
| (PSI)       | (PLI)     | (PLI) | (PLI)   |
| MT20        | 618       | 354   | 1687    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.16 (E) (INPUT = 0.90)  
JSI METAL= 0.11 (E) (INPUT = 1.00)



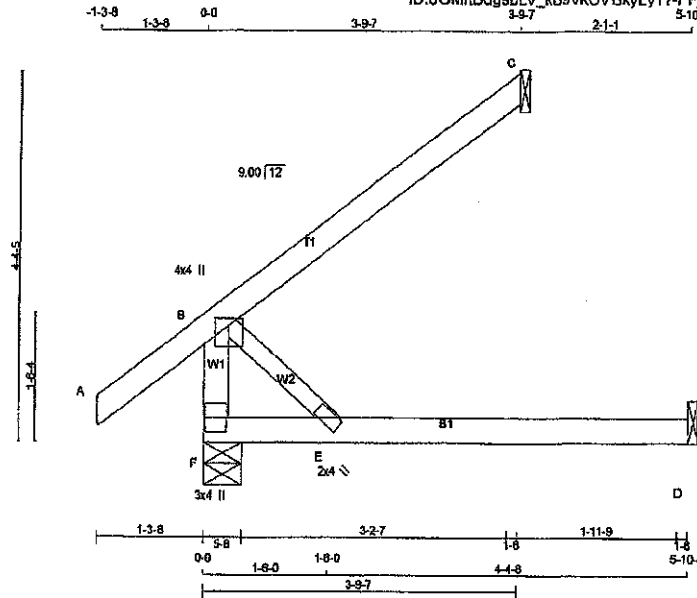
DRWG NO. TAM 17907840  
STRUCTURAL  
COMPONENT ONLY



|                                 |            |          |     |             |          |
|---------------------------------|------------|----------|-----|-------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 200165-400359                   | J7         | 1        | 1   | Millwood 4A |          |
| Tamarack Roof Truss, Burlington |            |          |     |             |          |

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:38:59 2019 Page 1  
ID:8GMfBdgsbLv\_kB9vkOVbKyLy17-FF\_vmoGc8ObHazYrVQPWWESQ2bIVFh31vi5idRzTkbc

Scale = 1:25.3



TOTAL WEIGHT = 17 lb

#### LUMBER

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

#### PLATES (table in inches)

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQD |
|----|-------------------------|---------------------------------|-------|------|
|    | VERT                    | DOWN                            | BRG   | BRG  |
| F  | 447                     | 0                               | 5-8   | 5-8  |
| C  | 193                     | 0                               | 1-8   | 1-8  |
| D  | 113                     | 0                               | 1-8   | 1-8  |

SEE MITEK STANDARD DETAIL B37921H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW  | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|----|-----------|-------|------|-----------|------|------|------|
| F  | 332       | 190/0 | 62/0 | 0/0       | 0/0  | 80/0 | 0/0  |
| C  | 133       | 110/0 | 0/0  | 0/0       | 0/0  | 23/0 | 0/0  |
| D  | 103       | 0/0   | 62/0 | 0/0       | 0/0  | 41/0 | 0/0  |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |  |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |  |
| F-B    | -334/0                    | 0.0                       | 0.0 (1)                   | B-E   | 0/0                       | 0.00 (1)                  |  |
| A-B    | 0/42                      | -102.1                    | -102.1 (1)                |       |                           |                           |  |
| B-C    | 0/0                       | -102.1                    | -102.1 (1)                |       |                           |                           |  |
| F-E    | 0/0                       | -38.5                     | -38.5 (3)                 |       |                           |                           |  |
| E-D    | 0/0                       | -38.5                     | -38.5 (3)                 |       |                           |                           |  |

#### 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 NBCC 2010, OBC 2012  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(85 % 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) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(LL) =  $L/825$  (0.08")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/555$  (0.13")

CSI: TC=0.25/1.00 (B-C:1), BC=0.30/1.00 (D-E:3), WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

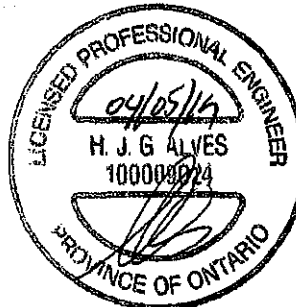
| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PSI)     | (PLI) | (PLI)   |
| MT20  | 618       | 354   | 1667    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)

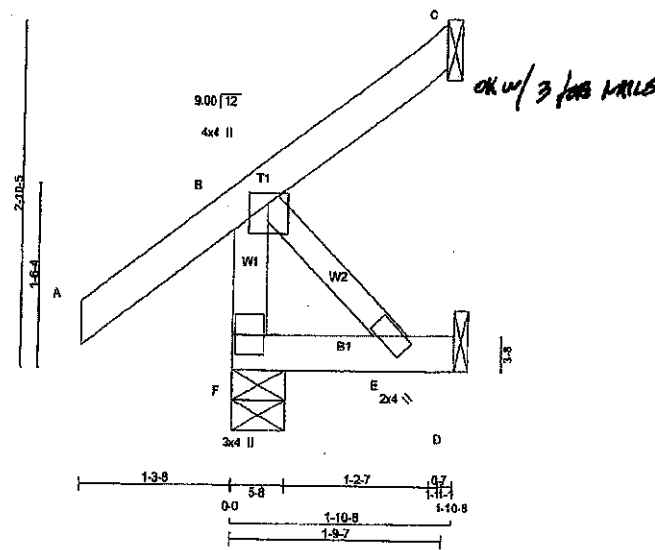
JSI METAL = 0.07 (B) (INPUT = 1.00)



DWG NO. TAM 1707492  
STRUCTURAL  
COMPONENT ONLY

|                                  |                         |                      |                 |                                 |          |
|----------------------------------|-------------------------|----------------------|-----------------|---------------------------------|----------|
| JOB NAME<br><b>200165-400359</b> | TRUSS NAME<br><b>J8</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Millwood 4A</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington  |                         |                      |                 | TRUSS DESC.                     |          |

Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:40:00 2019 Page 1  
 ID: 8GMRBdgsbLv\_kB9vkOVbKyLy1?jRYH28GEvhJ8C7172W2R?ZW7is\_8JA8PqO8uzTkbi  
 Scale = 1:17.7



**LUMBER**

N. L. G. A. RULES

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

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

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| E  | BMVW+w | MT20   | 2.0 | 4.0 |      |      |
| F  | BMV1+p | 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 IN-SX | RECORD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|------------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                  |
| F  | 322                     | 0    | 322                             | 0    | 5-8             | 5-8              |
| C  | 37                      | 0    | 37                              | 0    | 1-8             | 1-8              |
| D  | 36                      | 0    | 46                              | 0    | 1-8             | 1-8              |

SEE MITEK STANDARD DETAIL 837821H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

**UNFACTORED REACTIONS**

| JT | 1ST CASE |        | MAX/MIN COMPONENT REACTIONS |            |      |      |      |
|----|----------|--------|-----------------------------|------------|------|------|------|
|    | COMBINED | SNOW   | LIVE                        | PERM. LIVE | WIND | DEAD | SOIL |
| F  | 229      | 183/0  | 20/0                        | 0/0        | 0/0  | 47/0 | 0/0  |
| C  | 25       | 21/-31 | 0/0                         | 0/0        | 0/0  | 4/0  | 0/0  |
| D  | 33       | 0/0    | 20/0                        | 0/0        | 0/0  | 13/0 | 0/0  |

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

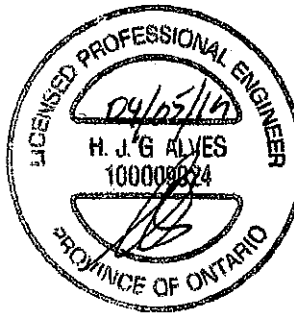
**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**  
 TOTAL LOAD CASES: (5)

| MEMB. | CHORDS                    |                      | FACTORED                  |                                   | WEBS                      |                                   |
|-------|---------------------------|----------------------|---------------------------|-----------------------------------|---------------------------|-----------------------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD LC1 (PLF) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED UNBRAC. LENGTH (FT) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED UNBRAC. LENGTH (FT) |
| F-B   | -286/0                    | 0.0                  | 0.0                       | 0.03 (1)                          | 0/0                       | 0.00 (1)                          |
| A-B   | 0/42                      | -102.1               | -102.1                    | 0.14 (1)                          | 0/0                       | 0.00 (1)                          |
| B-C   | -33/0                     | -102.1               | -102.1                    | 0.13 (1)                          | 0/0                       | 0.00 (1)                          |
| F-E   | 0/0                       | -38.5                | -38.5                     | 0.03 (3)                          | 0/0                       | 0.00 (1)                          |
| E-D   | 0/0                       | -38.5                | -38.5                     | 0.03 (3)                          | 0/0                       | 0.00 (1)                          |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN



**DESIGN CRITERIA**

SPECIFIED LOADS:  
 TOP CH. LL = 29.0 PSF  
 DL = 5.0 PSF  
 BOT CH. LL = 10.5 PSF  
 DL = 7.0 PSF  
 TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. G/C

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

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

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

(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 (0.19")  
 CALCULATED VERT. DEFL. (LL) = 1/999 (0.00")  
 ALLOWABLE DEFL. (TL) = L/360 (0.19")  
 CALCULATED VERT. DEFL. (TL) = 1/999 (0.00")

CSI: TC=0.14/1.00 (A-B:1), BC=0.03/1.00 (E-F:3), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

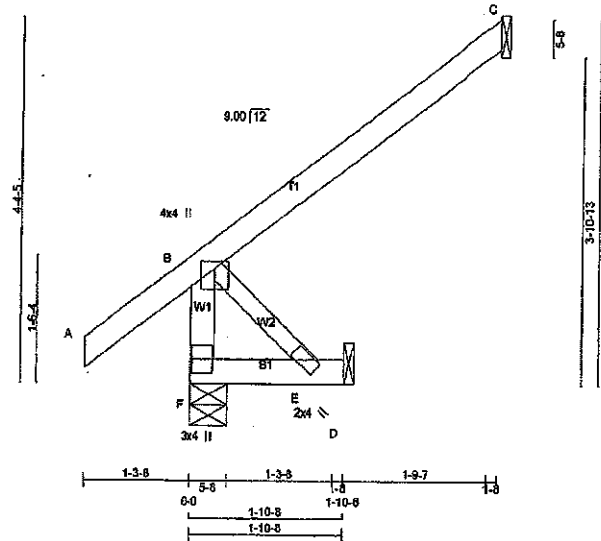
JSI GRIP= 0.23 (B) (INPUT = 0.90)  
 JSI METAL= 0.06 (B) (INPUT = 1.00)

DWG NO. TAM 17070 93  
 STRUCTURAL  
 COMPONENT ONLY

|                                                              |                  |               |          |                          |             |          |
|--------------------------------------------------------------|------------------|---------------|----------|--------------------------|-------------|----------|
| JOB NAME<br>200165-400359<br>Tamarack Roof Truss, Burlington | TRUSS NAME<br>J9 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>Millwood 4A | TRUSS DESC. | DRWG NO. |
|--------------------------------------------------------------|------------------|---------------|----------|--------------------------|-------------|----------|

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ID:8GMfBdgsbLv\_kB9vkOVbKyLy1?Be6fATHsg?r7pHhEcrR\_afYjYP22jbZKM3ayhKzTkbi

Scale = 1/25.8



TOTAL WEIGHT = 2 X 12 = 24 lb

#### LUMBER

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

#### 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 |
| F        | 370            | 0    | 370              | 0    | 0      | 5-8   | 5-8   |
| C        | 193            | 0    | 193              | 0    | 0      | 1-8   | 1-8   |
| D        | 36             | 0    | 46               | 0    | 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 | SNOW    | LIVE   | PERM.LIVE | WIND  | DEAD   | SOIL  |
|-----------|-----------------------------|---------|--------|-----------|-------|--------|-------|
| JT        | COMBINED                    |         |        |           |       |        |       |
| F         | 282                         | 190 / 0 | 20 / 0 | 0 / 0     | 0 / 0 | 52 / 0 | 0 / 0 |
| C         | 133                         | 110 / 0 | 0 / 0  | 0 / 0     | 0 / 0 | 23 / 0 | 0 / 0 |
| D         | 33                          | 0 / 0   | 20 / 0 | 0 / 0     | 0 / 0 | 13 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX. CS1 (LC) | UNBRAC LENGTH FR-TO | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|--------|-------|---------------------------|---------------------------|----------------------------|---------------------|-------|-------|---------------------------|---------------|
| FR-TO  |       |                           |                           |                            |                     |       |       |                           |               |
| F-B    |       | -334 / 0                  | 0.0                       | 0.0                        | 0.03 (1)            | 7.81  | B-E   | 0 / 0                     | 0.00 (1)      |
| A-B    |       | 0 / 42                    | -102.1                    | -102.1                     | 0.14 (1)            | 10.00 |       |                           |               |
| B-C    |       | 0 / 0                     | -102.1                    | -102.1                     | 0.25 (1)            | 10.00 |       |                           |               |
| F-E    |       | 0 / 0                     | -38.5                     | -38.5                      | 0.04 (3)            | 10.00 |       |                           |               |
| E-D    |       | 0 / 0                     | -38.5                     | -38.5                      | 0.03 (3)            | 10.00 |       |                           |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
CL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
CL = 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, OBC 2012  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(85 % 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 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.00")

CS1: TC=0.25/1.00 (B-C-1), BC=0.04/1.00 (E-F-3),  
WB=0.00/1.00 (B-E-1), SS1=0.12/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (PSI) | SECTION (PLI) | MAX MIN | MAX MIN |
|------------------|-------------|---------------|---------|---------|
| MT20             | 618         | 354           | 1667    | 768     |
|                  |             |               | 1987    | 1659    |

PLATE PLACEMENT TOL. = 0.250 inches

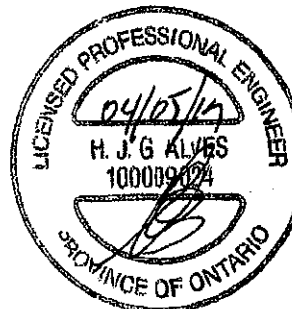
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.27 (B) (INPUT = 0.90)

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

RECEIVED  
AUG 23 2019

TOWN OF CALEDON  
BUILDING SECTION  
FILE NO

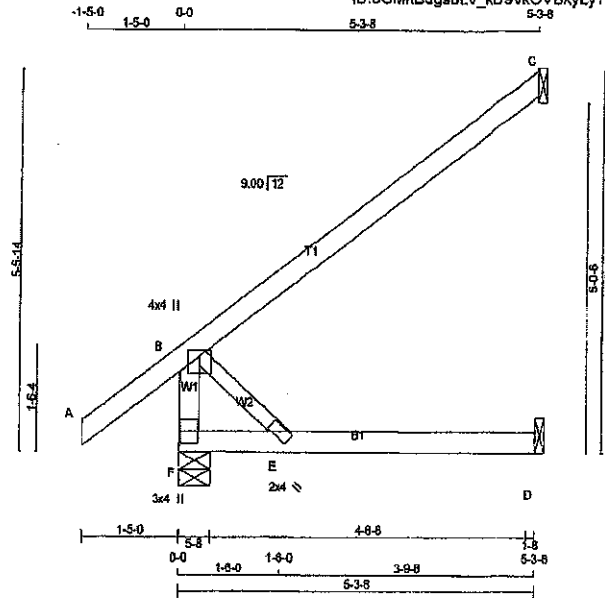


DWG NO. TAM 1707844  
STRUCTURAL  
COMPONENT ONLY

|                                 |            |          |     |             |          |
|---------------------------------|------------|----------|-----|-------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 200165-400359                   | J10        | 6        | 1   | Millwood 4A |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC. |          |

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ID: 8GMftBdgsbl\_v\_kB9vkOV8kylY17-80EQb9J6Ccsj3brckGUS4d7JDg9BV2dqN32mCzTkbg



Scale = 1/32" = 1'-0"

TOTAL WEIGHT = 8 X 18 = 144 lb

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

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| B                           | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| E                           | BMVW+p  | MT20   | 2.0 | 4.0 |      |      |
| F                           | BMV1+p  | 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 |           |          |
| F  | 526                     | 0    | 526                             | 0    | 5-8       | 5-8      |
| C  | 270                     | 0    | 270                             | 0    | 1-8       | 1-8      |
| D  | 102                     | 0    | 130                             | 0    | 1-8       | 1-8      |

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

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW |     | LIVE |     | PERM LIVE | WIND | DEAD | SOIL |
|----|----------|------|-----|------|-----|-----------|------|------|------|
|    |          | MAX  | MIN | MAX  | MIN |           |      |      |      |
| F  | 383      | 241  | 0   | 58   | 0   | 0         | 0    | 87   | 0    |
| C  | 185      | 154  | 0   | 0    | 0   | 0         | 0    | 32   | 0    |
| D  | 93       | 0    | 0   | 58   | 0   | 0         | 0    | 37   | 0    |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |        |               | WEBS                 |       |                           |               |  |
|--------|---------------------------|---------------------------|--------|---------------|----------------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1    | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM                      | TO     |               | FR-TO                |       |                           |               |  |
| F-B    | -424 / 0                  | 0.0                       | 0.0    | 0.04 (1)      | 7.81                 | F-B   | 0 / 0                     | 0.00 (1)      |  |
| A-B    | 0 / 46                    | -102.1                    | -102.1 | 0.16 (1)      | 10.00                |       |                           |               |  |
| B-C    | 0 / 0                     | -102.1                    | -102.1 | 0.49 (1)      | 10.00                |       |                           |               |  |
| F-E    | 0 / 0                     | -38.5                     | -38.5  | 0.20 (3)      | 10.00                |       |                           |               |  |
| E-D    | 0 / 0                     | -38.5                     | -38.5  | 0.25 (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 |    | = | 62.5 | 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 NBCC 2010, OBC 2012  
- CSA 089-09, CSA 089-14  
- TPIC 2011, 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) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/759 (0.08")

CSI: TC=0.48/1.00 (B-C:1), BC=0.25/1.00 (D-E:3),  
WB=0.00/1.00 (B-E:1), SS=0.17/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

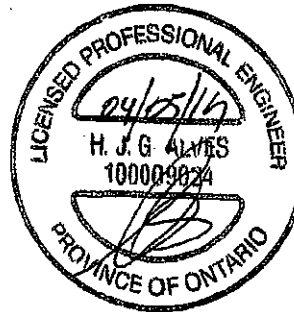
#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
| (PSI) | (PLI)     | (PLI) | (PLI)              |
| MAX   | MIN       | MAX   | MIN                |
| MT20  | 616       | 354   | 1667 788 1987 1656 |

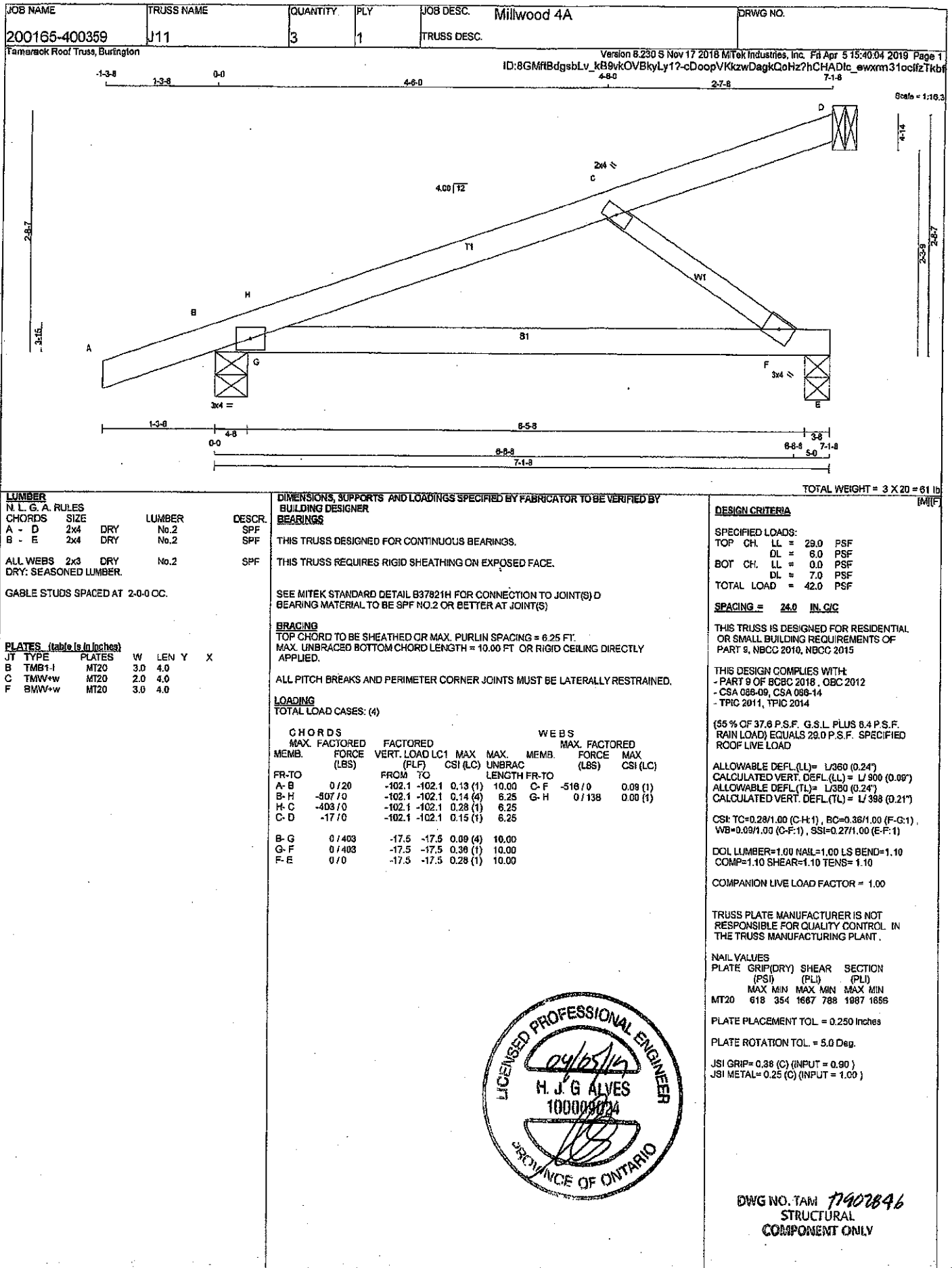
PLATE PLACEMENT TOL = 0.250 inches

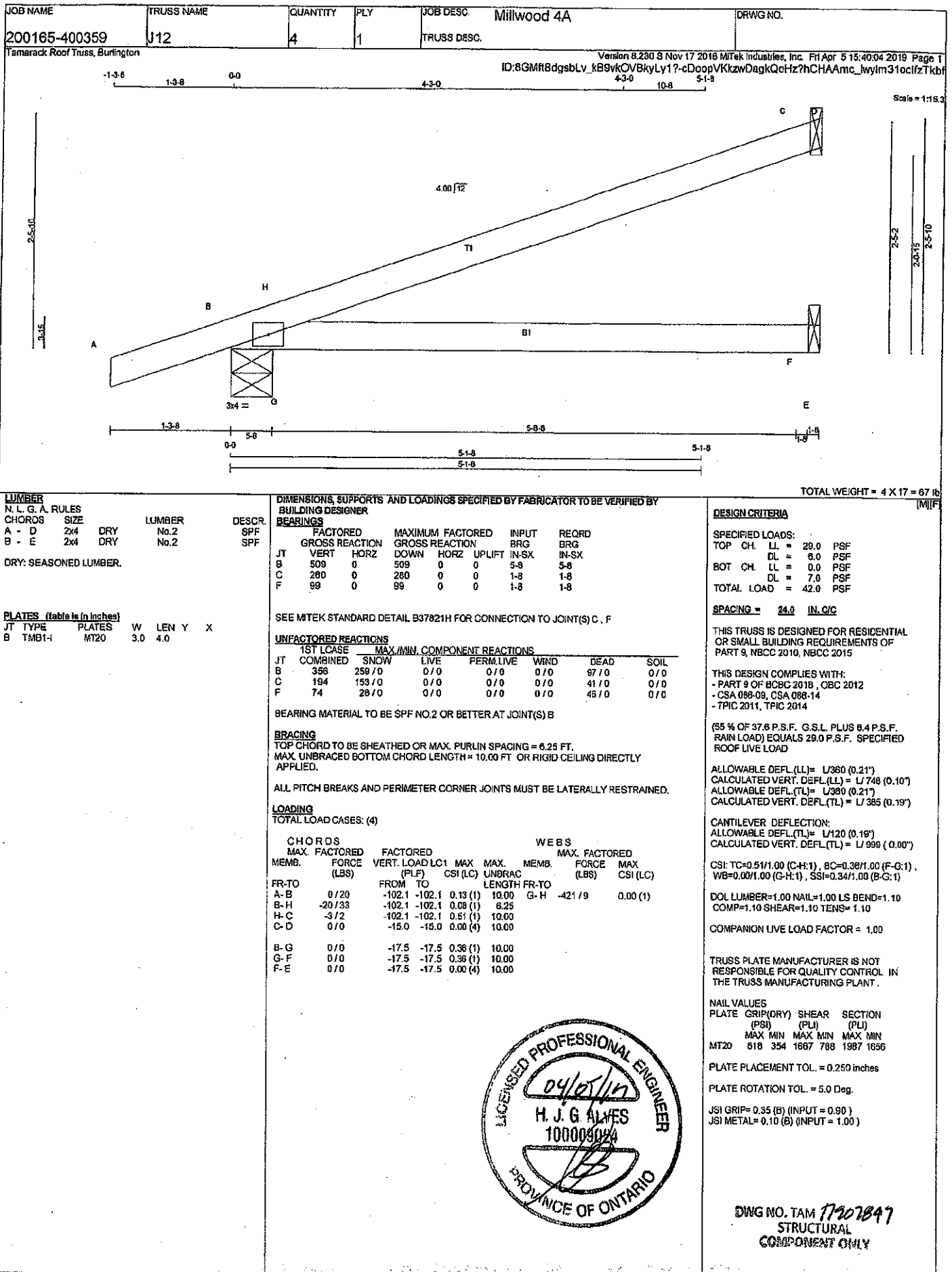
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.34 (B) (INPUT = 0.90)  
JSI METAL= 0.08 (B) (INPUT = 1.00)



DWG NO. TAM 174078-45  
STRUCTURAL  
COMPONENT ONLY

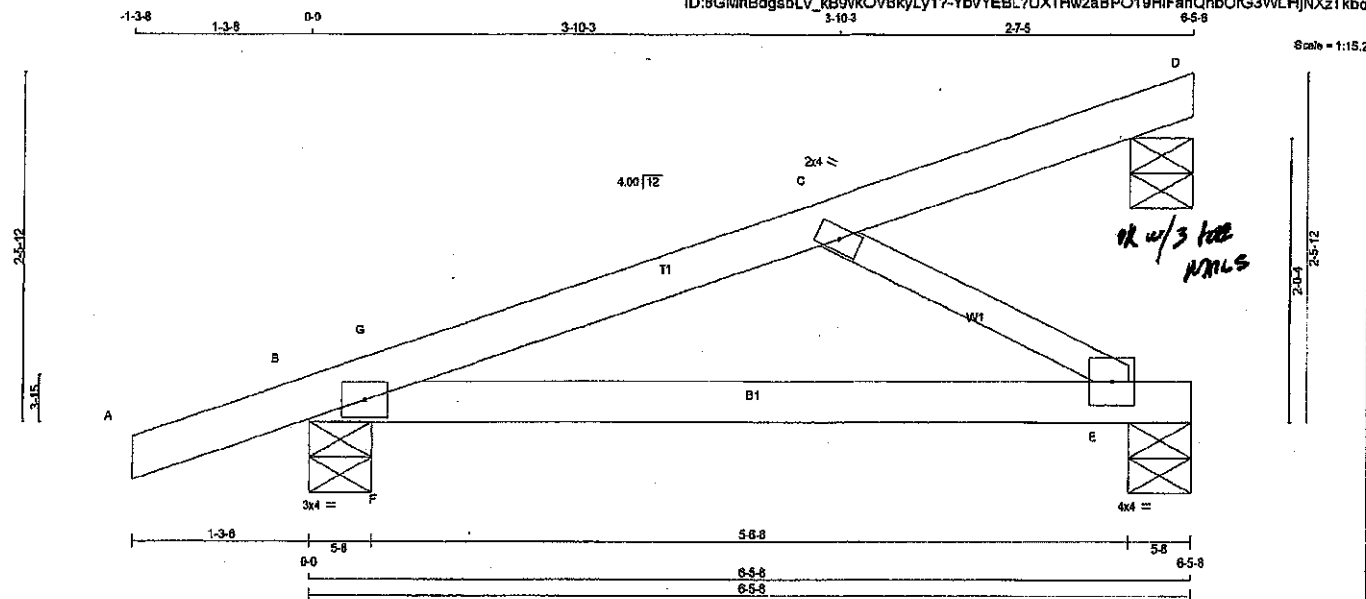




|               |            |          |     |             |          |
|---------------|------------|----------|-----|-------------|----------|
| JOB NAME      | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| 200165-400359 | J13        | 5        | 1   | Millwood 4A |          |

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:40:06 2019 Page 1  
ID:9GMRBdgsbLv\_kB9vkOVbkyLy17-YbvYEBL?UXTHw2aBPO19HfahQhbOrG3WLNHjNXzTkbd



TOTAL WEIGHT = 5 X 19 = 94 lb

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

| PLATES (table is in inches) | W   | LEN | Y | X |
|-----------------------------|-----|-----|---|---|
| JT TYPE PLATES              |     |     |   |   |
| B. TMB1-I MT20              | 3.0 | 4.0 |   |   |
| C. TMBW-w MT20              | 2.0 | 4.0 |   |   |
| E. BMBW-1 MT20              | 4.0 | 4.0 |   |   |

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

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG | REQD BRG |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|----------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX    |
| D        | 79   | 0                       | 79   | 0                               | -4     | 5-8       | 5-8      |
| B        | 555  | 0                       | 555  | 0                               | 0      | 5-8       | 5-8      |
| E        | 389  | 0                       | 389  | 0                               | 0      | 5-8       | 5-8      |

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): D

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

| JT | COMBINED | SNOW    | LIVE   | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|---------|--------|------------|-------|--------|-------|
| D  | 51       | 53 / 0  | 0 / -8 | 0 / 0      | 0 / 0 | 6 / 0  | 0 / 0 |
| B  | 406      | 252 / 0 | 61 / 0 | 0 / 0      | 0 / 0 | 93 / 0 | 0 / 0 |
| E  | 295      | 148 / 0 | 70 / 0 | 0 / 0      | 0 / 0 | 77 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNSHEATHED 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. CS1 (LC) | MAX. UNBRACED LENGTH | WEBS MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|-------|----------------------------------|---------------------------|---------------|----------------------|--------------------------------|---------------|
| FR-TO |                                  | FROM                      | TO            |                      | FR-TO                          |               |
| A-B   | 0 / 20                           | -102.1                    | -102.1        | 0.13 (1)             | 10.00                          | 0.10 (1)      |
| B-G   | -565 / 0                         | -102.1                    | -102.1        | 0.16 (3)             | 8.25                           | 0.00 (1)      |
| G-C   | -458 / 0                         | -102.1                    | -102.1        | 0.22 (2)             | 6.25                           |               |
| C-D   | -18 / 0                          | -102.1                    | -102.1        | 0.16 (1)             | 6.25                           |               |
| B-F   | 0 / 461                          | -38.5                     | -38.5         | 0.13 (3)             | 10.00                          |               |
| F-E   | 0 / 461                          | -38.5                     | -38.5         | 0.27 (2)             | 10.00                          |               |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 29.0 PSF  
CL = 6.0 PSF  
BOT CH. LL = 10.5 PSF  
CL = 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 CBC 2018, CBC 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 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/861 (0.08")

CSI: TC=0.22/1.00 (C-G:2), BC=0.27/1.00 (E-F:2), WB=0.10/1.00 (C-E:1), SS=0.19/1.00 (B-G:2)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.44 (C) (INPUT = 0.90)  
JSI METAL= 0.29 (C) (INPUT = 1.00)



DRWG NO. TAM 740784B  
STRUCTURAL  
COMPONENT ONLY



|                                  |                          |                      |                 |                                                                                   |          |
|----------------------------------|--------------------------|----------------------|-----------------|-----------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>200165-400359</b> | TRUSS NAME<br><b>J70</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>Millwood 4A</b>                                                   | DRWG NO. |
| Tamarack Roof Truss, Burlington  |                          |                      |                 | Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Fri Apr 5 15:40:08 2019 Page 1 |          |
|                                  |                          |                      |                 | ID:8GMRBdgsbLv_kB9vkOVbKyLy17-U_1JRNf09k79MkaVp3dM7KwnEOVsmIMzfmpRQzTkbb          |          |

Scale = 1/25.0

**LUMBER**

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

**PLATES (Table is in inches)**

| JT TYPE    | PLATES | W   | LEN | Y    | X    |
|------------|--------|-----|-----|------|------|
| A - TMVW+p | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| D - BMVW+p | MT20   | 2.0 | 4.0 |      |      |
| E - BMV1+p | MT20   | 3.0 | 4.0 |      |      |

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

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| E  | 295                     | 0    | 295                             | 0    | 5-8       | 5-8      |
| B  | 193                     | 0    | 193                             | 0    | 1-8       | 1-8      |
| C  | 102                     | 0    | 130                             | 0    | 1-8       | 1-8      |

SEE MITEK STANDARD DETAIL 837821H FOR CONNECTION TO JOINT(S) B, C

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX/MIN COMPONENT REACTIONS |      |      |            |      |      |
|----|-----------|-----------------------------|------|------|------------|------|------|
|    |           | COMBINED                    | SNOW | LIVE | PERM. LIVE | WIND | DEAD |
| E  | 225       | 110/0                       | 56/0 | 0/0  | 0/0        | 80/0 | 0/0  |
| B  | 133       | 110/0                       | 0/0  | 0/0  | 0/0        | 23/0 | 0/0  |
| C  | 93        | 0/0                         | 56/0 | 0/0  | 0/0        | 37/0 | 0/0  |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |  |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |  |
| E-A    | -193/0                    | 0.0 0.0 0.02 (1)          | 7.81                      | A-D   | 0/0                       | 0.00 (1)                  |  |
| A-B    | 0/0                       | -102.1 -102.1 0.25 (1)    | 10.00                     |       |                           |                           |  |
| E-D    | 0/0                       | -38.5 -38.5 0.19 (3)      | 10.00                     |       |                           |                           |  |
| D-C    | 0/0                       | -38.5 -38.5 0.24 (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. 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 CBC 2018, 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

ALLOWABLE DEFL.(LL) = L/360 (0.19")

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

ALLOWABLE DEFL.(TL) = L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/759 (0.08")

CSI: TC=0.26/1.00 (A-B:1), BC=0.24/1.00 (C-D:3), WB=0.00/1.00 (A-D:1), SS=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PL)      | (PL)  | (PL)    |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 354   | 1667    |
|       |           | 768   | 1987    |
|       |           |       | 1655    |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.15 (A) (INPUT = 0.90)

JSI METAL= 0.04 (A) (INPUT = 1.00)

DRWG NO. TAM **17007160**

STRUCTURAL COMPONENT ONLY



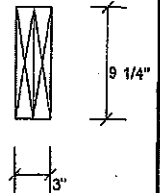
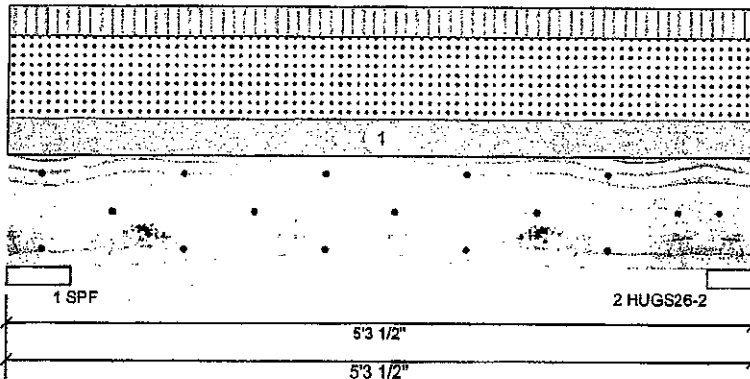
isDesign™

Client:  
Project:  
Address:Date: 4/5/2019  
Designer:  
Job Name: 200165  
Project #:

Page 1 of 8

**BM1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

Type: Girder  
Plies: 2  
Moisture Condition: Dry  
Deflection LL: 360  
Deflection TL: 360  
Importance: Normal

Application: Roof (Residential)  
Slope: 0/12  
Design Method: LSD  
Building Code: NBCC 2015  
Load Sharing: No  
Deck: Not Checked  
Vibration: Not Checked

**Unfactored Reactions UNPATTERNED lb (Uplift)**

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 128  | 158  | 353  | 0    |
| 2   | 122  | 151  | 337  | 0    |

**Bearings and Factored Reactions**

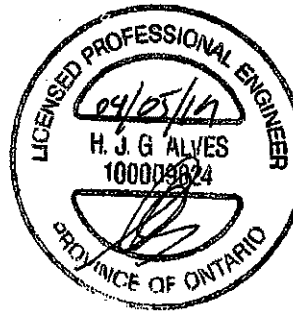
| Bearing     | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb.           |
|-------------|--------|-------------------|----------------|---------------------|
| 1 - SPF     | 5.500" | 8%                | 198 / 658      | 856 L 1.25D+1.5S +L |
| 2 - HUGS... | 4.000" | 11%               | 189 / 628      | 817 L 1.25D+1.5S +L |

**Analysis Results**

| Analysis     | Actual         | Location | Allowed       | Capacity    | Comb.         | Case |
|--------------|----------------|----------|---------------|-------------|---------------|------|
| Moment       | 845 ft-lb      | 2'8 1/2" | 6039 ft-lb    | 0.140 (14%) | 1.25D+1.5S +L | L    |
| Unbraced     | 845 ft-lb      | 2'8 1/2" | 5405 ft-lb    | 0.156 (16%) | 1.25D+1.5S +L | L    |
| Shear        | 731 lb         | 1'2"     | 3984 lb       | 0.184 (18%) | 1.25D+1.5S +L | L    |
| LL Defl inch | 0.006 (L/9533) | 2'8 1/2" | 0.154 (L/360) | 0.040 (4%)  | S+0.5L        | L    |
| TL Defl inch | 0.008 (L/6910) | 2'8 1/2" | 0.154 (L/360) | 0.050 (5%)  | D+S+0.5L      | L    |

**Design Notes**

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") 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 12402878

STRUCTURAL

COMPONENT ONLY 1/6

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live     | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|----------|--------|-------|----------|
| 1  | Uniform   |          | 4-6-0      | Near Face | 13 PSF | 10.5 PSF | 29 PSF | 0 PSF |          |

**Manufacturer Info**

Tamarack Roof Trusses  
3269 North Service Rd., ON  
Canada  
L7N3G2  
(905) 335-1115



This design is valid until 12/11/2021





isDesign™

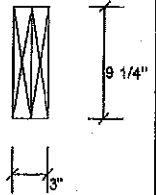
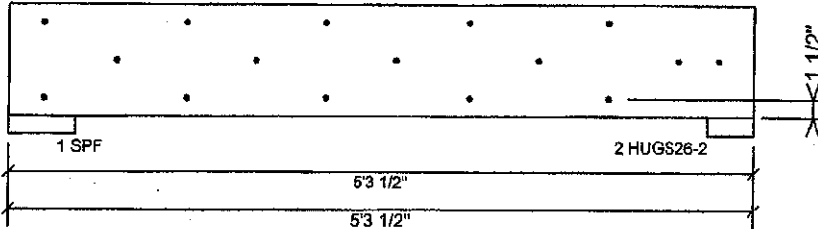
Client:  
Project:  
Address:

Date: 4/5/2019  
Designer:  
Job Name: 200165  
Project #:

Page 2 of 8

**BM1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

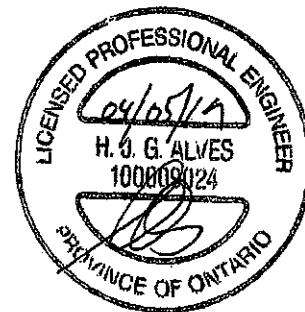
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

|                          |              |
|--------------------------|--------------|
| Capacity                 | 46.5 %       |
| Load                     | 158.1 PLF    |
| Yield Limit per Foot     | 340.0 PLF    |
| Yield Limit per Fastener | 113.3 lb.    |
| Yield Mode               | 9            |
| Edge Distance            | 1 1/2"       |
| Min. End Distance        | 3"           |
| Load Combination         | 1.25D+1.5S+L |
| Duration Factor          | 1.00         |



ENG NO. TAM 779078 78  
STRUCTURAL  
CONSULTANT ONLY 7/2

#### Manufacturer Info

Tamarack Roof Trusses  
3289 North Service Rd., ON  
Canada  
L7N3G2  
(905) 335-1115



This design is valid until 12/11/2021





isDesign™

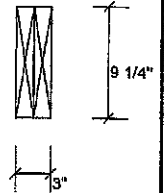
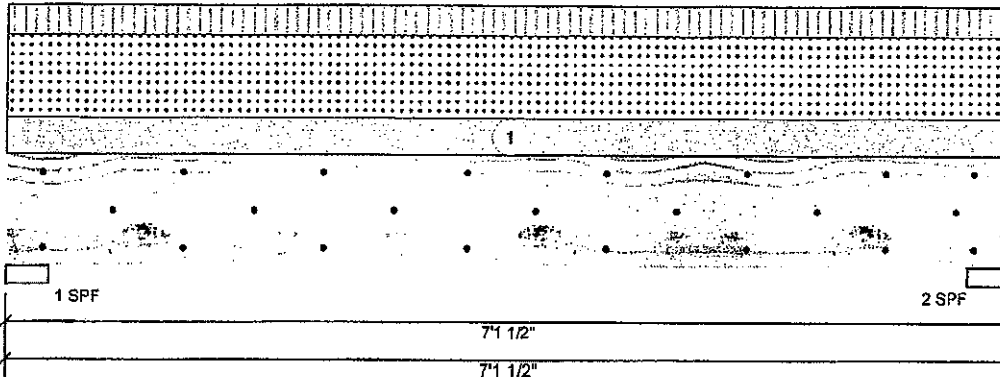
Client:  
Project:  
Address:

Date: 4/5/2019

Page 3 of 8

Designer:  
Job Name: 200165  
Project #:**BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

|                     |        |                |                    |
|---------------------|--------|----------------|--------------------|
| Type:               | Girder | Application:   | Roof (Residential) |
| Piles:              | 2      | Slope:         | 0/12               |
| Moisture Condition: | Dry    | Design Method: | LSD                |
| Deflection LL:      | 360    | Building Code: | NBCC 2015          |
| Deflection TL:      | 360    | Load Sharing:  | No                 |
| Importance:         | Normal | Deck:          | Not Checked        |
|                     |        | Vibration:     | Not Checked        |

**Unfactored Reactions UNPATTERNED lb (Uplift)**

| Brg | Live | Dead | Snow | Wind |
|-----|------|------|------|------|
| 1   | 168  | 208  | 485  | 0    |
| 2   | 168  | 208  | 485  | 0    |

**Bearings and Factored Reactions**

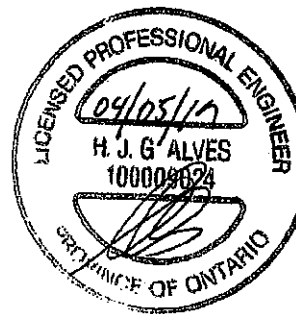
| Bearing | Length | Cap. React D/L lb | Total Ld. Case | Ld. Comb.     |
|---------|--------|-------------------|----------------|---------------|
| 1 - SPF | 3.500" | 17% 261 / 866     | 1126 L         | 1.25D+1.5S +L |
| 2 - SPF | 3.500" | 17% 261 / 866     | 1126 L         | 1.25D+1.5S +L |

**Analysis Results**

| Analysis     | Actual         | Location | Allowed       | Capacity    | Comb.         | Case |
|--------------|----------------|----------|---------------|-------------|---------------|------|
| Moment       | 1756 ft-lb     | 3'6 3/4" | 6039 ft-lb    | 0.291 (29%) | 1.25D+1.5S +L | L    |
| Unbraced     | 1756 ft-lb     | 3'6 3/4" | 4723 ft-lb    | 0.372 (37%) | 1.25D+1.5S +L | L    |
| Shear        | 1054 lb        | 1'       | 3984 lb       | 0.265 (26%) | 1.25D+1.5S +L | L    |
| LL Defl inch | 0.025 (L/3183) | 3'6 3/4" | 0.222 (L/360) | 0.110 (11%) | S+0.5L        | L    |
| TL Defl inch | 0.035 (L/2307) | 3'6 3/4" | 0.222 (L/360) | 0.160 (16%) | D+S+0.5L      | L    |

**Design Notes**

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") 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. 1 AM 119078 79  
STRUCTURAL  
COMPONENT ONLY  
1/2

| ID | Load Type | Location | Trib Width | Side      | Dead   | Live     | Snow   | Wind  | Comments |
|----|-----------|----------|------------|-----------|--------|----------|--------|-------|----------|
| 1  | Uniform   |          | 4-6-0      | Near Face | 13 PSF | 10.5 PSF | 29 PSF | 0 PSF |          |

**Manufacturer Info**

Tamarack Roof Trusses  
3269 North Service Rd., ON  
Canada  
L7N3G2  
(805) 335-1115



This design is valid until 12/11/2021





isDesign™

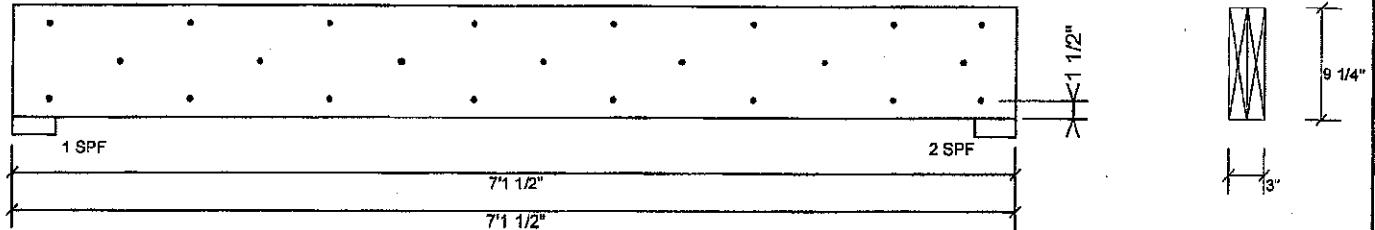
Client:  
Project:  
Address:

Date: 4/5/2019  
Designer:  
Job Name: 200165  
Project #:

Page 4 of 8

**BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

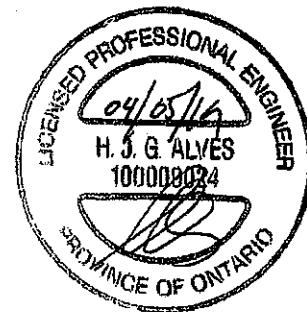
Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

|                          |              |
|--------------------------|--------------|
| Capacity                 | 46.5 %       |
| Load                     | 158.1 PLF    |
| Yield Limit per Foot     | 340.0 PLF    |
| Yield Limit per Fastener | 113.3 lb.    |
| Yield Mode               | 9            |
| Edge Distance            | 1 1/2"       |
| Min. End Distance        | 3"           |
| Load Combination         | 1.25D+1.5S+L |
| Duration Factor          | 1.00         |



**RECEIVED**  
AUG 23 2019

TOWN OF CALEDON  
BUILDING SECTION  
FILE NO. \_\_\_\_\_

DWG NO. TAM 11907879  
STRUCTURAL  
CONCRETE ONLY 2/2

|                                                    |                                                                                           |
|----------------------------------------------------|-------------------------------------------------------------------------------------------|
| Manufacturer Info                                  | Tamarack Roof Trusses<br>3289 North Service Rd., ON<br>Canada<br>L7N3G2<br>(800) 335-1115 |
| <b>TAMARACK</b><br>LUMBER INC<br>ALFA LUMBER GROUP |                                                                                           |

This design is valid until 12/11/2021



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

## HHUS/HGUS

See Hanger Options information on pp. 125–127.

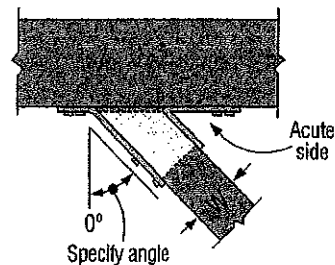
### HHUS — Sloped and/or Skewed Seat

- 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 | 0.62 of table value | 0.46 of table value |
| 2" < W < 6"     | Bevel cut           | 0.67 of table value | 0.41 of table value |
| 2" < W < 6"     | Square cut          | 0.46 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>e</sub> <sup>3</sup> | Header    | Joist            | D-Fir-L                 |                         | S-P-F                   |                         |    |    |
|                 |     |                  |       |       |                             |           |                  | Uplift                  | Normal                  | Uplift                  | Normal                  |    |    |
|                 |     |                  |       |       |                             |           |                  | (K <sub>D</sub> = 1.15) | (K <sub>D</sub> = 1.00) | (K <sub>D</sub> = 1.15) | (K <sub>D</sub> = 1.00) |    |    |
|                 |     |                  |       |       |                             |           |                  | lb.                     | lb.                     | lb.                     | lb.                     |    |    |
| kN              |     |                  |       |       |                             |           |                  |                         |                         |                         |                         | kN | kN |
| Single 2x Sizes |     |                  |       |       |                             |           |                  |                         |                         |                         |                         |    |    |
| LUS24           | 18  | 1 1/8            | 3 1/2 | 1 3/4 | 2 1/4                       | (4) 10d   | (2) 10d          | 710                     | 1625                    | 645                     | 1155                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 316                     | 723                     | 287                     | 514                     |    |    |
|                 |     |                  |       |       |                             |           |                  | 360                     | 1020                    | 320                     | 725                     |    |    |
| LU24L           | 22  | 1 1/8            | 3     | 1 1/8 | 2 1/4                       | (4) 10d   | (2) 10d x 1 1/2" | 160                     | 454                     | 142                     | 322                     |    |    |
|                 |     |                  |       |       |                             |           |                  | 720                     | 1605                    | 645                     | 1140                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 320                     | 714                     | 287                     | 507                     |    |    |
| LU26L           | 22  | 1 1/8            | 5     | 1 1/8 | 4 1/8                       | (6) 10d   | (4) 10d x 1 1/2" | 1420                    | 2170                    | 1290                    | 1630                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 632                     | 965                     | 574                     | 725                     |    |    |
|                 |     |                  |       |       |                             |           |                  | 2705                    | 4940                    | 2065                    | 3875                    |    |    |
| LUS26           | 18  | 1 1/8            | 4 1/4 | 1 3/4 | 3 3/4                       | (4) 10d   | (4) 10d          | 1130                    | 2197                    | 920                     | 1724                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 2055                    | 4265                    | 1460                    | 4115                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 914                     | 2197                    | 649                     | 1831                    |    |    |
| HUS26           | 16  | 1 1/8            | 5 3/8 | 3     | 3 15/16                     | (14) 16d  | (6) 16d          | 2685                    | 6625                    | 2685                    | 5700                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 1196                    | 2951                    | 11.96                   | 25.35                   |    |    |
|                 |     |                  |       |       |                             |           |                  | 1140                    | 2185                    | 1020                    | 1550                    |    |    |
| LJS26DS         | 18  | 1 1/8            | 5     | 3 1/2 | 4 1/8                       | (16) 16d  | (6) 16d          | 607                     | 972                     | 454                     | 689                     |    |    |
|                 |     |                  |       |       |                             |           |                  | 1420                    | 2520                    | 1290                    | 1790                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 632                     | 1121                    | 574                     | 796                     |    |    |
| HGUS26          | 12  | 1 1/8            | 5 3/8 | 5     | 4 1/8                       | (20) 16d  | (8) 16d          | 3605                    | 5365                    | 2675                    | 4345                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 1604                    | 2386                    | 11.90                   | 19.33                   |    |    |
|                 |     |                  |       |       |                             |           |                  | 3310                    | 7675                    | 3310                    | 6900                    |    |    |
| LU28L           | 20  | 1 1/8            | 6 3/4 | 1 1/8 | 5 1/8                       | (8) 10d   | (6) 10d x 1 1/2" | 1474                    | 3419                    | 14.74                   | 30.73                   |    |    |
|                 |     |                  |       |       |                             |           |                  | 1140                    | 2495                    | 1020                    | 1770                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 607                     | 1110                    | 454                     | 787                     |    |    |
| LUS28           | 18  | 1 1/8            | 6 1/4 | 1 3/4 | 3 3/4                       | (6) 10d   | (4) 10d          | 1420                    | 2785                    | 1290                    | 2210                    |    |    |
|                 |     |                  |       |       |                             |           |                  | 632                     | 1239                    | 574                     | 983                     |    |    |
|                 |     |                  |       |       |                             |           |                  |                         |                         |                         |                         |    |    |

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>e</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-N10TRUSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/8" long. See pp. 27–28 for other nail sizes and information.

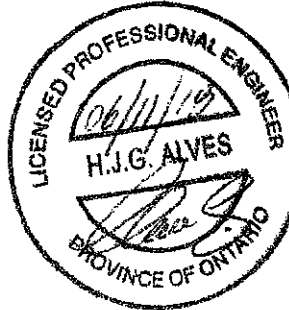
## Face-Mount Hangers

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

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

| Model No.          | Ga. | Dimensions (in.) |        |   |                             | Fasteners |          | Factored Resistance     |                         |                         |                         |
|--------------------|-----|------------------|--------|---|-----------------------------|-----------|----------|-------------------------|-------------------------|-------------------------|-------------------------|
|                    |     | W                | H      | B | d <sub>e</sub> <sup>3</sup> | Header    | Joist    | D-Fir-L                 |                         | S-P-F                   |                         |
|                    |     |                  |        |   |                             |           |          | Uplift                  | Normal                  | Uplift                  | Normal                  |
|                    |     |                  |        |   |                             |           |          | (K <sub>D</sub> = 1.15) | (K <sub>D</sub> = 1.00) | (K <sub>D</sub> = 1.15) | (K <sub>D</sub> = 1.00) |
|                    |     |                  |        |   |                             |           |          | lb.                     | lb.                     | lb.                     | lb.                     |
|                    |     |                  |        |   |                             |           |          | kN                      | kN                      | kN                      | kN                      |
| Double 2x Sizes    |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ LUS24-2          | 18  | 3 1/8            | 3 1/8  | 2 | 1 1/2                       | (4) 16d   | (2) 16d  | 835                     | 2020                    | 590                     | 1435                    |
| SS LUS26-2         | 18  | 3 1/8            | 4 7/8  | 2 | 4                           | (4) 16d   | (4) 16d  | 1720                    | 2595                    | 1545                    | 1920                    |
| ■ HHUS26-2         | 14  | 3 1/8            | 5 3/8  | 3 | 3 1/8                       | (14) 16d  | (6) 16d  | 2850                    | 7335                    | 2065                    | 5205                    |
| ■ HGUS26-2         | 12  | 3 1/8            | 5 7/8  | 4 | 4 1/4                       | (20) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| SS LUS28-2         | 18  | 3 1/8            | 7      | 2 | 4                           | (6) 16d   | (4) 16d  | 1720                    | 3325                    | 1545                    | 2575                    |
| ■ HHUS28-2         | 14  | 3 1/8            | 7 5/8  | 3 | 6 1/8                       | (22) 16d  | (8) 16d  | 3765                    | 8940                    | 2675                    | 6345                    |
| ■ HGUS28-2         | 12  | 3 1/8            | 7 3/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
| SS LUS210-2        | 18  | 3 1/8            | 9      | 2 | 6                           | (8) 16d   | (6) 16d  | 2580                    | 4500                    | 2320                    | 3195                    |
| ■ HHUS210-2        | 14  | 3 1/8            | 9 5/8  | 3 | 8                           | (30) 16d  | (10) 16d | 4670                    | 9660                    | 4235                    | 7000                    |
| ■ HGUS210-2        | 12  | 3 1/8            | 9 3/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                    | 14015                   | 4855                    | 10270                   |
| Triple 2x Sizes    |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ HGUS26-3         | 12  | 4 1/8            | 5 1/2  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| ■ HGUS28-3         | 12  | 4 1/8            | 7 1/4  | 4 | 6 3/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
| ■ HHUS210-3        | 14  | 4 1/8            | 9      | 3 | 7 5/8                       | (30) 16d  | (10) 16d | 4670                    | 9670                    | 4235                    | 6865                    |
| ■ HGUS210-3        | 12  | 4 1/8            | 9 1/4  | 4 | 8 3/8                       | (46) 16d  | (16) 16d | 6840                    | 14645                   | 4855                    | 10400                   |
| Quadruple 2x Sizes |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ HGUS26-4         | 12  | 6 3/8            | 5 7/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| ■ HGUS28-4         | 12  | 6 3/8            | 7 3/8  | 4 | 6 3/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
| ■ HHUS210-4        | 14  | 6 3/8            | 8 3/8  | 3 | 7 3/8                       | (30) 16d  | (10) 16d | 4670                    | 10155                   | 4235                    | 7210                    |
| ■ HGUS210-4        | 12  | 6 3/8            | 9 3/8  | 4 | 8 3/8                       | (46) 16d  | (16) 16d | 6840                    | 14645                   | 4855                    | 10400                   |
| ■ HGUS212-4        | 12  | 6 3/8            | 10 3/8 | 4 | 10 3/8                      | (56) 16d  | (20) 16d | 7640                    | 14995                   | 5425                    | 10645                   |
| ■ HGUS214-4        | 12  | 6 3/8            | 12 3/8 | 4 | 11 3/8                      | (66) 16d  | (22) 16d | 10130                   | 16400                   | 7195                    | 11645                   |
| 4x Sizes           |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| ■ LUS46            | 18  | 3 1/8            | 4 3/8  | 2 | 3 3/8                       | (4) 16d   | (4) 16d  | 1720                    | 2595                    | 1545                    | 1920                    |
| ■ HHUS46           | 14  | 3 1/8            | 5 3/8  | 3 | 3 1/8                       | (14) 16d  | (6) 16d  | 2540                    | 7335                    | 2065                    | 5205                    |
| ■ HGUS46           | 12  | 3 1/8            | 5 3/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| ■ LUS48            | 18  | 3 1/8            | 6 3/8  | 2 | 3 3/8                       | (6) 16d   | (4) 16d  | 1720                    | 3325                    | 1545                    | 2575                    |
| ■ HHUS48           | 14  | 3 1/8            | 7 3/8  | 3 | 6 1/8                       | (22) 16d  | (8) 16d  | 3765                    | 8940                    | 2675                    | 6345                    |
| ■ HGUS48           | 12  | 3 1/8            | 7 3/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
| ■ LUS410           | 18  | 3 1/8            | 8 3/8  | 2 | 5 3/8                       | (8) 16d   | (6) 16d  | 2580                    | 4500                    | 2320                    | 3195                    |
| ■ HGUS410          | 12  | 3 1/8            | 9      | 4 | 8 3/8                       | (46) 16d  | (16) 16d | 6840                    | 14015                   | 4855                    | 10270                   |
| ■ HGUS412          | 12  | 3 1/8            | 10 3/8 | 4 | 10 3/8                      | (56) 16d  | (20) 16d | 7640                    | 14995                   | 5425                    | 10645                   |
| ■ HGUS414          | 12  | 3 1/8            | 12 3/8 | 4 | 11 3/8                      | (66) 16d  | (22) 16d | 10130                   | 16400                   | 7195                    | 11645                   |

See footnotes on p. 258.



## 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

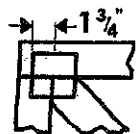
- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All 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-1300213

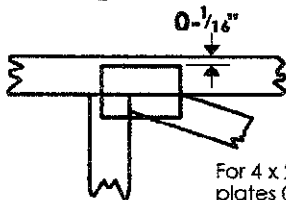
Feb 09, 2018

## 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 0-1/4" from outside edge of truss.



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

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

### PLATE SIZE

4 x 4

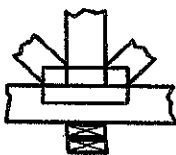
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



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

### BEARING



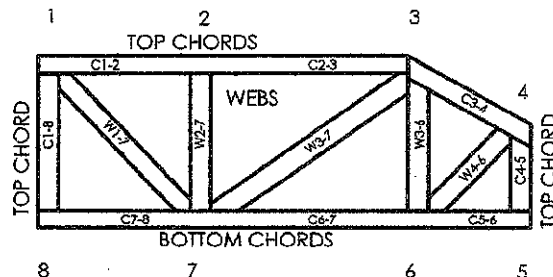
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards:

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

## Numbering System

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



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

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

### PRODUCT CODE APPROVALS

CCMC Reports:

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

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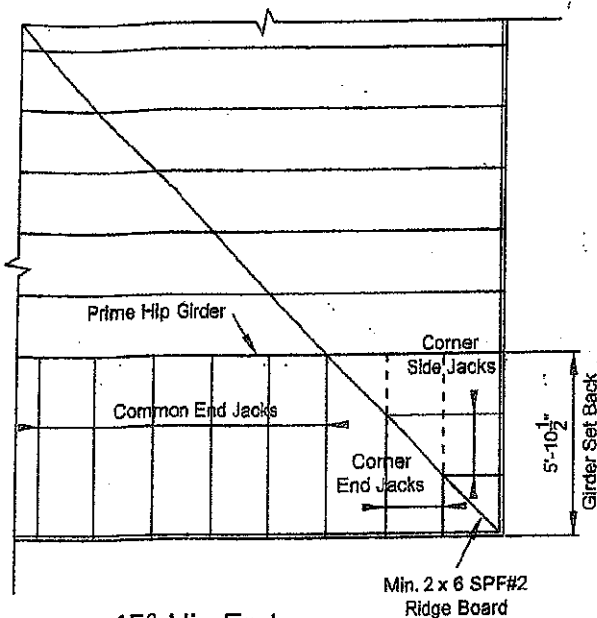
**MiTek**  
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MiTek Engineering Reference Sheet: MII-7473C rev. 10-08

## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



45° Hip End

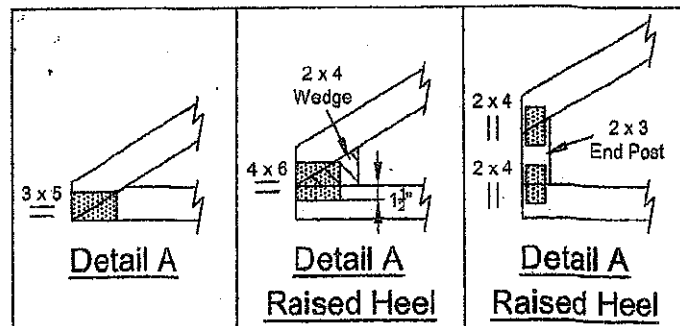
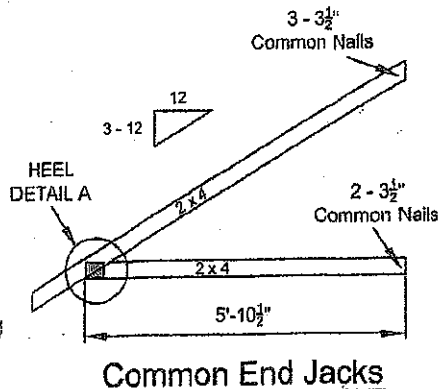
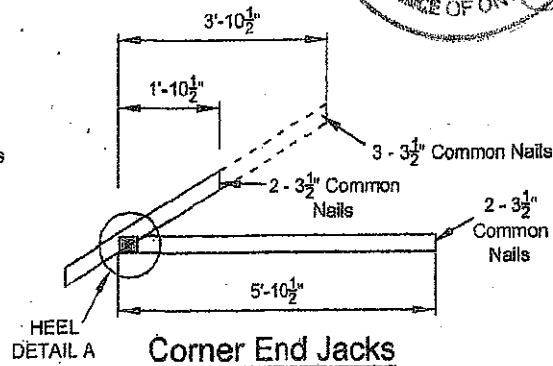
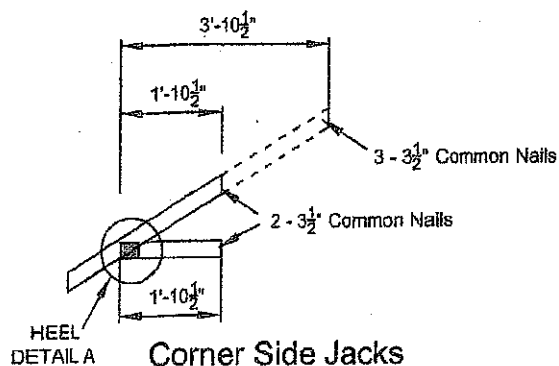
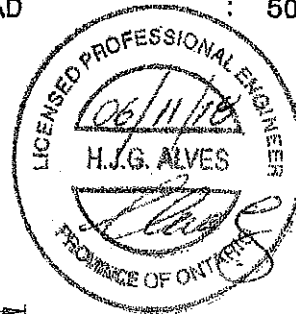
### LUMBER SPECIFICATION

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

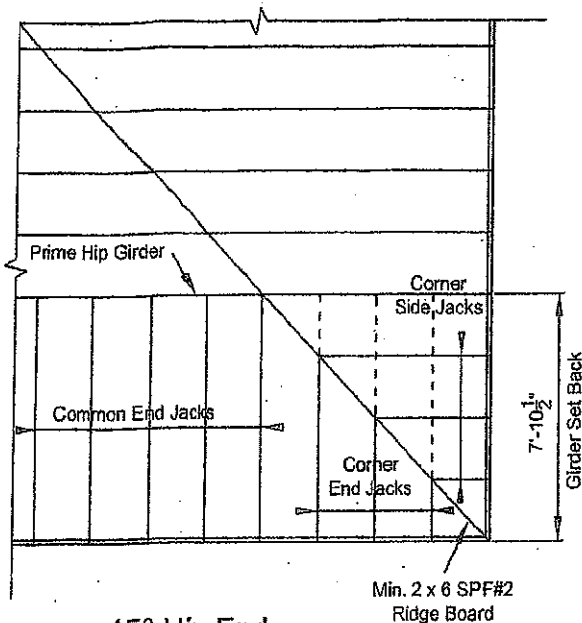
TOP CHORD SNOW LOAD : 40.5 P.S.F.  
 TOP CHORD DEAD LOAD : 3.0 P.S.F.  
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.  
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

TOTAL LOAD : 50.5 P.S.F



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

T-1800216



45° Hip End

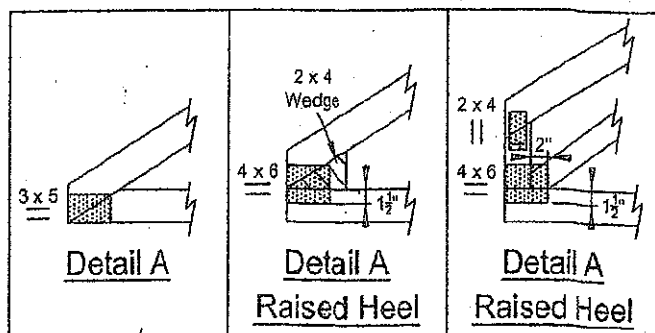
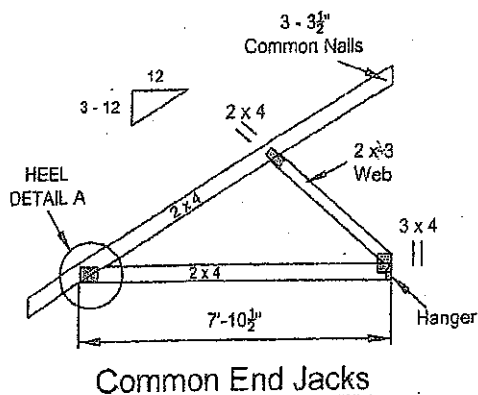
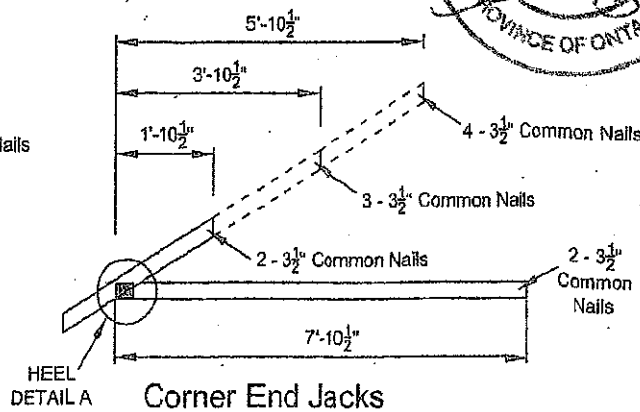
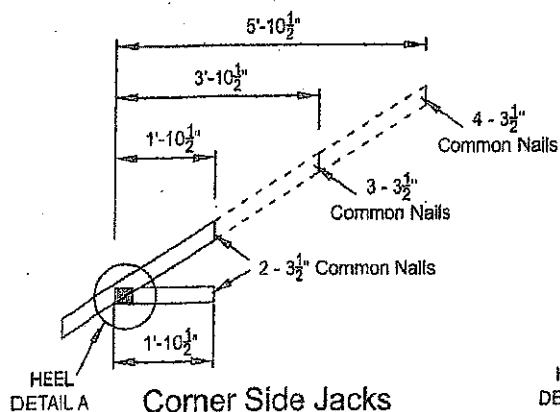
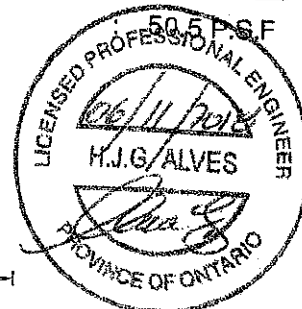
## LUMBER SPECIFICATION

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



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

T-1800217