

## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: RUSSELL GARDENS PH.3  
 Location: WATERDOWN  
 Model: MOUNTAINASH 5  
 Lot #: 317  
 Elevation: 3- STD OR OPT.5 BR

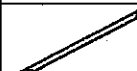
Job Track: 51225  
 PlanLog: 202406  
 Layout ID: 408170  
 Ref #  
 Page: 1 of 2  
 Date: 04-27-2020  
 Designer:  
 Sales Rep: Mario DiCano

### 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 | T40<br>Hip Girder   | 6 / 12 | 35-02-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 337.66<br>208.00 |                     |                    |
|         | 1<br>2-ply | T40Z<br>Hip Girder  | 6 / 12 | 35-02-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 337.66<br>208.00 |                     |                    |
|         | 2          | T41<br>Hip          | 6 / 12 | 35-02-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 277.99<br>174.00 |                     |                    |
|         | 2          | T42<br>Hip          | 6 / 12 | 35-02-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 277.12<br>174.67 |                     |                    |
|         | 2          | T43<br>Hip          | 6 / 12 | 35-02-00 | 7-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 289.07<br>179.67 |                     |                    |
|         | 3          | C43<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           | 21.06<br>14.00   |                     |                    |
|         | 2          | T44<br>Hip          | 6 / 12 | 35-02-00 | 8-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 290.73<br>183.33 |                     |                    |
|         | 2          | T45<br>Hip          | 6 / 12 | 35-02-00 | 9-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 301.67<br>191.33 |                     |                    |
|         | 6          | T46<br>Common       | 6 / 12 | 35-02-00 | 9-11-08 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 910.08<br>558.00 |                     |                    |
|         | 1<br>2-ply | T47<br>Hip Girder   | 6 / 12 | 24-03-00 | 5-04-08 | 2 x 4<br>2 x 6 | 1-03-08                   | 1-02-00<br>2-06-00           | 228.14<br>142.33 |                     |                    |
|         | 1          | T48<br>Hip          | 6 / 12 | 24-03-00 | 6-04-08 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-06-00           | 99.13<br>63.33   |                     |                    |
|         | 3          | T49<br>Roof Special | 0 / 12 | 16-03-00 | 4-02-00 | 2 x 4          |                           | 3-05-00<br>4-02-00           | 215.73<br>139.50 |                     |                    |
|         | 2          | T50<br>Roof Special | 6 / 12 | 16-03-00 | 4-06-08 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-02-00           | 126.84<br>80.33  |                     |                    |
|         | 1          | T51<br>Half Hip     | 6 / 12 | 16-03-00 | 4-11-12 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-11-12           | 69.76<br>44.67   |                     |                    |

|                                                                                                                                                                    |                                                                                                                                                                                          |                                                                                                                                               |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPA LUMBER GROUP</small></p> | DELIVERY SHIPLIST                                                                                                                                                                        |                                                                                                                                               |  |  |
|                                                                                                                                                                    | Lumber Yard: TAMARACK LUMBER<br>Builder: GREEN PARK HOMES<br>Project: RUSSELL GARDENS PH.3<br>Location: WATERDOWN<br>Model: MOUNTAINASH 5<br>Lot #: 317<br>Elevation: 3- STD OR OPT.5 BR | Job Track: 51225<br>PlanLog: 202406<br>Layout ID: 408170<br>Ref #<br>Page: 2 of 2<br>Date: 04-27-2020<br>Designer:<br>Sales Rep: Mario DiCano |  |  |

### Roof Trusses

| PROFILE                                                                            | QTY<br>PLY | MARK<br>TYPE                 | PITCH | SPAN    | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|------------------------------------------------------------------------------------|------------|------------------------------|-------|---------|---------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|    | 1          | G52<br>GABLE                 | 0 /12 | 9-02-00 | 4-02-00 | 2 x 4          |                           | 4-02-00<br>4-02-00           | 40.75<br>28.87   |                     |                    |
|    | 1          | T53S<br>Half Hip             | 6 /12 | 5-09-00 | 4-05-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-05-04           | 32.51<br>21.50   |                     |                    |
|    | 1          | T54S<br>Half Hip             | 6 /12 | 5-09-00 | 3-05-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>3-05-04           | 30.82<br>20.87   |                     |                    |
|    | 1<br>2-ply | T55<br>Jack-Closed<br>Girder | 6 /12 | 5-09-00 | 5-04-08 | 2 x 4<br>2 x 6 |                           | 2-06-00<br>5-04-08           | 87.19<br>43.87   |                     |                    |
|   | 1<br>2-ply | T56<br>Jack-Closed<br>Girder | 6 /12 | 5-10-08 | 4-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 67.17<br>37.00   |                     |                    |
|  | 1          | J40<br>Jack-Open             | 6 /12 | 5-09-00 | 5-04-08 | 2 x 4          | 1-03-08                   | 2-06-00<br>5-04-08           | 19.99<br>13.50   |                     |                    |
|  | 16         | 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           | 288.71<br>170.87 |                     |                    |
|  | 3          | C40<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           | 42.4<br>26.00    |                     |                    |
|  | 3          | C41<br>Jack-Open             | 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           | 34.75<br>22.00   |                     |                    |
|  | 3          | C42<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           | 28.71<br>18.00   |                     |                    |

TOTAL # TRUSS= 65      TOTAL BFT OF ALL TRUSSES= 2760.84      BFT.      TOTAL WEIGHT OF ALL TRSSES 4404.41      LBS

### HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 2   | Hardware | HGUS28-2 |        |
| 3   | Hardware | LJS28DS  |        |
| 2   | Hardware | LUS24    |        |
| 1   | Hardware | LUS28-2  |        |

TOTAL NUMBER OF  
ITEMS= 8



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408168   | T1         | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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#### PLATES (tablets in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-1 | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| C  | TTWW-m | MT20   | 7.0 | 8.0 | 3.75 | 1.50 |
| D  | TMVW-1 | MT20   | 5.0 | 6.0 |      |      |
| E  | TMVW-w | MT20   | 3.0 | 6.0 |      |      |
| F  | TS-1   | MT20   | 5.0 | 6.0 |      |      |
| G  | TMVW-1 | MT20   | 5.0 | 6.0 |      |      |
| H  | TTWW-m | MT20   | 7.0 | 8.0 | 3.75 | 1.50 |
| I  | TMVW-1 | MT20   | 5.0 | 8.0 | 2.60 | 3.25 |
| K  | BMV1-p | MT20   | 3.0 | 6.0 |      |      |
| L  | BMVW-1 | MT20   | 5.0 | 6.0 |      |      |
| M  | BMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| N  | BS-1   | MT20   | 5.0 | 6.0 |      |      |
| O  | BMVW-1 | MT20   | 5.0 | 6.0 |      |      |
| P  | BS-1   | MT20   | 5.0 | 6.0 |      |      |
| Q  | BMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| R  | BMVW-1 | MT20   | 5.0 | 6.0 |      |      |
| S  | BMV1-p | MT20   | 3.0 | 6.0 |      |      |

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |         | WEBS                     |       |                           |               |
|--------|---------------------------|---------------------------|---------|--------------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | MAX. UNBRAC LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   |         |                          |       |                           |               |
| M-AS   | 0/2588                    | -18.5                     | -18.5   | 0.12 (1)                 | 10.00 |                           |               |
| AS-AT  | 0/2588                    | -18.5                     | -18.5   | 0.12 (1)                 | 10.00 |                           |               |
| AT-AU  | 0/2588                    | -18.5                     | -18.5   | 0.12 (1)                 | 10.00 |                           |               |
| AU-L   | 0/2588                    | -18.5                     | -18.5   | 0.12 (1)                 | 10.00 |                           |               |
| L-AV   | 0/0                       | -18.5                     | -18.5   | 0.05 (1)                 | 10.00 |                           |               |
| AV-K   | 0/0                       | -18.5                     | -18.5   | 0.05 (1)                 | 10.00 |                           |               |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| C  | 2-11-8  | -38  | -42  | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| C  | 2-11-8  | -181 | -191 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| H  | 32-2-8  | -38  | -42  | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| H  | 32-2-8  | -116 | -116 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| H  | 32-2-8  | -191 | -191 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| L  | 31-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 11-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 3-11-4  | -111 | -111 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 5-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 7-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W  | 9-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X  | 11-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y  | 13-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z  | 15-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 17-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 19-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AO | 21-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 23-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 25-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 27-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 29-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 1-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 3-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 5-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 7-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 9-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AM | 13-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AN | 15-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AO | 17-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AP | 19-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AQ | 21-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AR | 23-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AS | 25-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AT | 27-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AU | 29-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AV | 33-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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



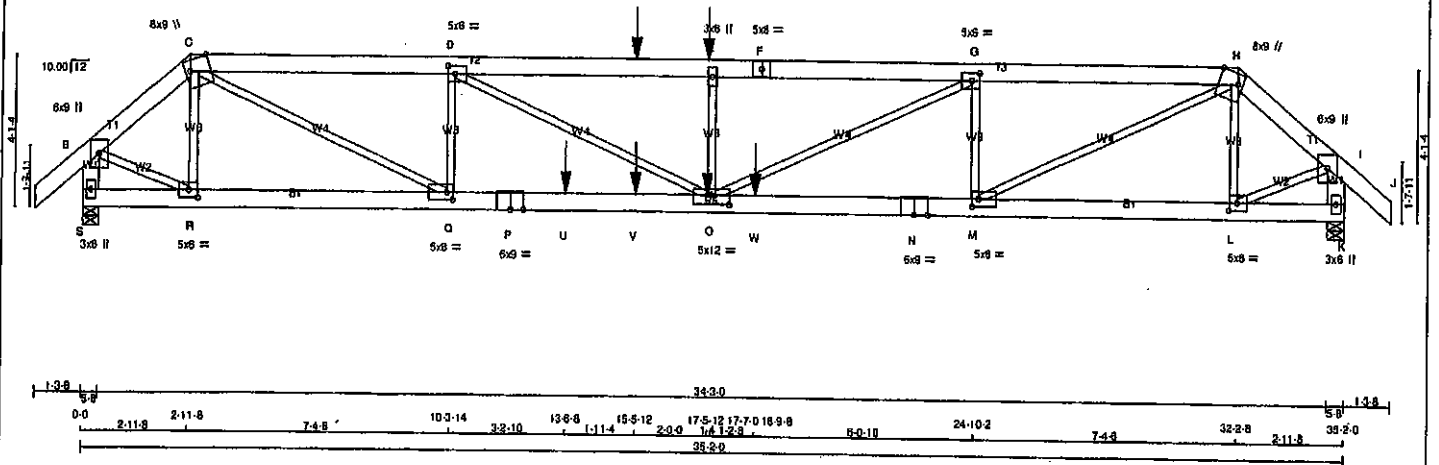
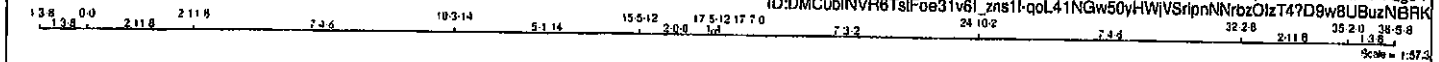
Structural component only  
DWG# T-2007129

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408168   | T1Z        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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|                           |      |     |            |                                                                                                      |  |  |  |                        |  |  |  |
|---------------------------|------|-----|------------|------------------------------------------------------------------------------------------------------|--|--|--|------------------------|--|--|--|
| <b>LUMBER</b>             |      |     |            | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b> |  |  |  | <b>DESIGN CRITERIA</b> |  |  |  |
| N. L. G. A. RULES         |      |     |            | BEARINGS                                                                                             |  |  |  | SPECIFIED LOADS:       |  |  |  |
| CHORDS                    | SIZE | DRY | LUMBER     | FACTORED                                                                                             |  |  |  | TOP CH. LL = 25.8 PSF  |  |  |  |
| A - C                     | 2x6  | DRY | No.2       | GROSS REACTION                                                                                       |  |  |  | DL = 8.0 PSF           |  |  |  |
| C - F                     | 2x6  | DRY | No.2       | MAXIMUM FACTORED                                                                                     |  |  |  | BOT CH. LL = 0.0 PSF   |  |  |  |
| F - H                     | 2x6  | DRY | No.2       | INPUT                                                                                                |  |  |  | DL = 7.4 PSF           |  |  |  |
| H - J                     | 2x6  | DRY | No.2       | REQD                                                                                                 |  |  |  | TOTAL LOAD = 39.0 PSF  |  |  |  |
| S - B                     | 2x6  | DRY | No.2       | BRG                                                                                                  |  |  |  | SPACING = 24.0 IN/C    |  |  |  |
| K - I                     | 2x6  | DRY | No.2       | IN-SX                                                                                                |  |  |  |                        |  |  |  |
| S - P                     | 2x6  | DRY | 2100F 1.8E | 5-8                                                                                                  |  |  |  |                        |  |  |  |
| P - N                     | 2x6  | DRY | 2100F 1.8E | 5-8                                                                                                  |  |  |  |                        |  |  |  |
| N - K                     | 2x6  | DRY | 2100F 1.8E | 5-8                                                                                                  |  |  |  |                        |  |  |  |
| 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 2 12 TOP

C-F 2 12 TOP

F-H 2 12 TOP

H-J 2 12 TOP

S-B 2 12 TOP

K-I 2 12 TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

S-P 2 12 TOP

P-N 2 12 TOP

N-K 2 12 TOP

WEBS : (0.122"x3") SPIRAL NAILS

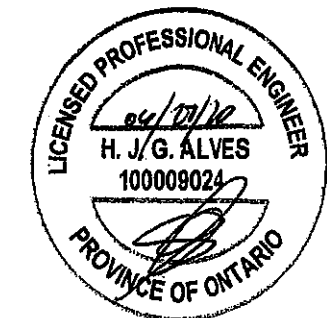
2x3 1 6 TOP

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.

|               |                           |                           |                |             |                           |               |  |
|---------------|---------------------------|---------------------------|----------------|-------------|---------------------------|---------------|--|
| <b>CHORDS</b> |                           |                           |                | <b>WEBS</b> |                           |               |  |
| MEMB.         | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC)  | MEMB.       | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |  |
| FR-TO         | 0 / 42                    | -91.8                     | -91.8 0.04 (1) | FR-TO       | -1086 / 0                 | 0.13 (1)      |  |
| A-B           | -3986 / 0                 | -91.8                     | -91.8 0.05 (1) | B-C         | 0 / 7263                  | 0.80 (1)      |  |
| B-C           | -9534 / 0                 | -91.8                     | -91.8 0.37 (1) | C-D         | -2180 / 0                 | 0.28 (1)      |  |
| C-D           | -12331 / 0                | -91.8                     | -91.8 0.52 (1) | D-E         | 0 / 3130                  | 0.39 (1)      |  |
| D-E           | -12331 / 0                | -91.8                     | -91.8 0.52 (1) | E-F         | -778 / 0                  | 0.09 (1)      |  |
| E-F           | -12331 / 0                | -91.8                     | -91.8 0.50 (1) | F-G         | 0 / 4203                  | 0.52 (1)      |  |
| F-G           | -12331 / 0                | -91.8                     | -91.8 0.50 (1) | G-H         | -2813 / 0                 | 0.31 (1)      |  |
| G-H           | -8575 / 0                 | -91.8                     | -91.8 0.33 (1) | H-I         | 0 / 6383                  | 0.79 (1)      |  |
| H-I           | -3758 / 0                 | -91.8                     | -91.8 0.08 (1) | I-J         | -843 / 0                  | 0.10 (1)      |  |
| I-J           | 0 / 42                    | -91.8                     | -91.8 0.04 (1) | J-K         | 0 / 3239                  | 0.40 (1)      |  |
| K-L           | -3945 / 0                 | 0.0                       | 0.0 0.14 (1)   | L-M         | 0 / 3052                  | 0.38 (1)      |  |
| M-N           | -3733 / 0                 | 0.0                       | 0.0 0.13 (1)   |             |                           |               |  |
| S-R           | 0 / 0                     | -18.5                     | -18.5 0.02 (1) |             |                           |               |  |
| R-Q           | 0 / 3013                  | -18.5                     | -18.5 0.21 (1) |             |                           |               |  |
| Q-P           | 0 / 8534                  | -18.5                     | -18.5 0.67 (1) |             |                           |               |  |
| P-U           | 0 / 8534                  | -18.5                     | -18.5 0.67 (1) |             |                           |               |  |
| U-V           | 0 / 8534                  | -18.5                     | -18.5 0.67 (1) |             |                           |               |  |
| V-O           | 0 / 8534                  | -18.5                     | -18.5 0.67 (1) |             |                           |               |  |
| O-W           | 0 / 8575                  | -18.5                     | -18.5 0.49 (1) |             |                           |               |  |
| W-N           | 0 / 8575                  | -18.5                     | -18.5 0.49 (1) |             |                           |               |  |
| N-M           | 0 / 8575                  | -18.5                     | -18.5 0.49 (1) |             |                           |               |  |
| M-L           | 0 / 2844                  | -18.5                     | -18.5 0.12 (1) |             |                           |               |  |
| L-K           | 0 / 0                     | -18.5                     | -18.5 0.05 (1) |             |                           |               |  |



Structural component only  
DWG# T-2007130

|                                          |         |       |       |      |      |      |      |
|------------------------------------------|---------|-------|-------|------|------|------|------|
| <b>FACTORED CONCENTRATED LOADS (LBS)</b> |         |       |       |      |      |      |      |
| JT                                       | LOC.    | LC1   | MAX.  | FACE | DIR. | TYPE | HEEL |
| E                                        | 17-5-12 | -110  | -110  | ---  | BACK | VERT | ---  |
| O                                        | 17-5-12 | -28   | -28   | ---  | BACK | VERT | ---  |
| T                                        | 15-5-12 | -110  | -110  | ---  | BACK | VERT | ---  |
| U                                        | 13-8-8  | -1615 | -1615 | ---  | BACK | VERT | ---  |
| V                                        | 15-5-12 | -28   | -28   | ---  | BACK | VERT | ---  |
| W                                        | 18-9-8  | -1620 | -1620 | ---  | BACK | VERT | ---  |

CONNECTION REQUIREMENTS

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

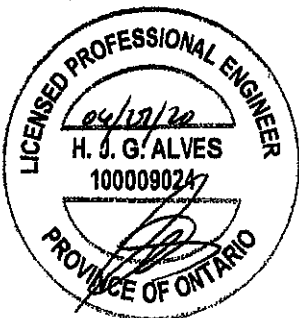
|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408168              | TRUSS NAME<br>T1Z | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | TRUSS DESC.                   |          |

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**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMVW+p  | MT20   | 8.0 | 9.0  |      |      |
| C  | TTWW+m  | MT20   | 8.0 | 9.0  | Edge | 8.50 |
| D  | TMWW-l  | MT20   | 5.0 | 8.0  | 2.50 | 2.50 |
| E  | TMW+w   | MT20   | 3.0 | 8.0  |      |      |
| F  | TS-l    | MT20   | 5.0 | 6.0  |      |      |
| G  | TMWW-l  | MT20   | 5.0 | 8.0  | 2.50 | 2.50 |
| H  | TTWW+m  | MT20   | 8.0 | 9.0  | Edge | 8.50 |
| I  | TMVW+p  | MT20   | 8.0 | 8.0  |      |      |
| K  | BMV1+p  | MT20   | 3.0 | 6.0  |      |      |
| L  | BMWW-l  | MT20   | 5.0 | 8.0  | 2.50 | 2.75 |
| M  | BMWW-l  | MT20   | 5.0 | 8.0  | 2.50 | 2.00 |
| N  | BS-l    | MT20   | 8.0 | 9.0  |      |      |
| O  | BMWWW-l | MT20   | 5.0 | 12.0 | 3.00 | 8.00 |
| P  | BS-l    | MT20   | 8.0 | 9.0  |      |      |
| Q  | BMWW-l  | MT20   | 5.0 | 8.0  | 2.50 | 2.00 |
| R  | BMWW-l  | MT20   | 6.0 | 8.0  | 2.50 | 2.75 |
| S  | BMV1+p  | MT20   | 3.0 | 6.0  |      |      |

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

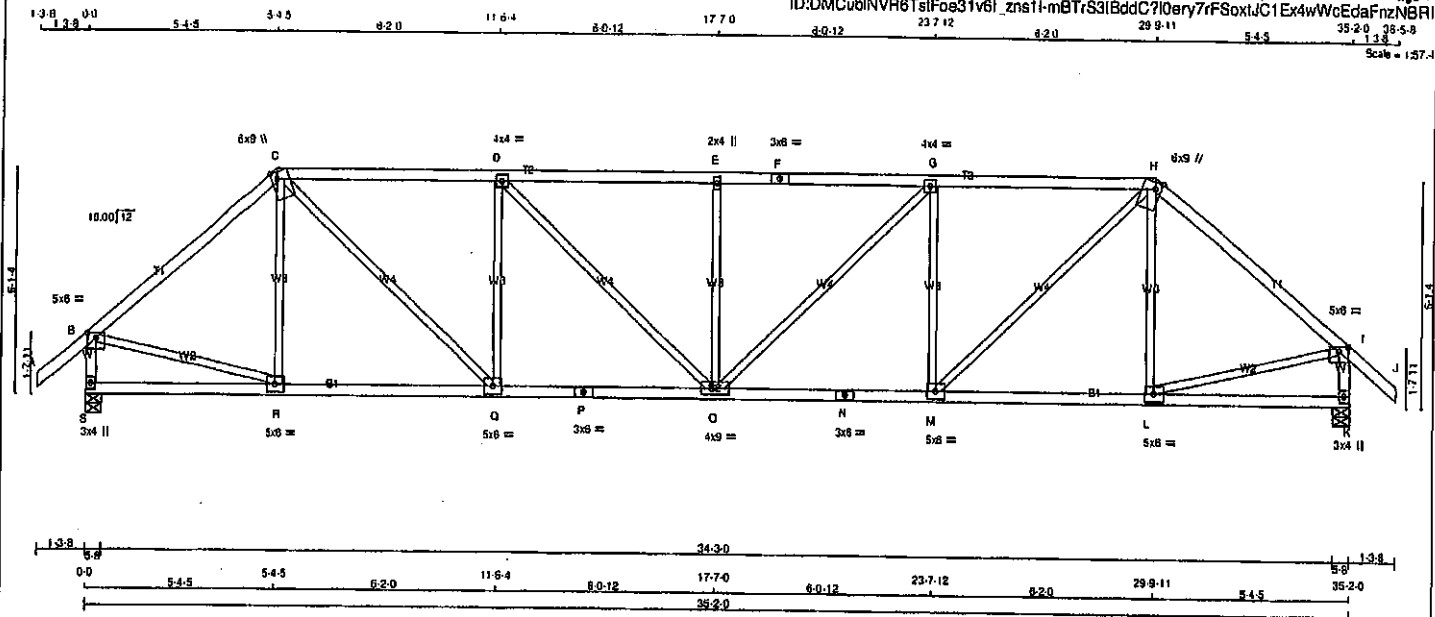


Structural component only  
DWG# T-2007130 72



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                          | T3         | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:DMCubiNVR6TstFos31v6t\_zns1t-mBTrS3BddC7l0ery7rFsoxtJC1Ex4wWcEdaFnzNBRI



TOTAL WEIGHT = 2 X 148 = 296 lb

| CHORDS | SIZE | DRY | LUMBER |
|--------|------|-----|--------|
| A - C  | 2x4  | DRY | No.2   |
| C - F  | 2x4  | DRY | No.2   |
| F - H  | 2x4  | DRY | No.2   |
| H - J  | 2x4  | DRY | No.2   |
| J - S  | 2x4  | DRY | No.2   |
| S - P  | 2x4  | DRY | No.2   |
| P - N  | 2x4  | DRY | No.2   |
| N - K  | 2x4  | DRY | No.2   |

|          |     |     |      |
|----------|-----|-----|------|
| ALL WEBS | 2x3 | DRY | No.2 |
|----------|-----|-----|------|

EXCEPT

DRY: SEASONED LUMBER.

| PLATE TYPE | PLATES | W    | LEN | Y   | X         |
|------------|--------|------|-----|-----|-----------|
| B          | TMVW-p | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| C          | TTWW+m | MT20 | 6.0 | 9.0 | Edge 1.75 |
| D          | TMVW-t | MT20 | 4.0 | 4.0 |           |
| E          | TMVW-w | MT20 | 2.0 | 4.0 |           |
| F          | TS-t   | MT20 | 3.0 | 6.0 |           |
| G          | TMVW-t | MT20 | 4.0 | 4.0 |           |
| H          | TTWW+m | MT20 | 6.0 | 9.0 | Edge 1.75 |
| I          | TMVW-p | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| K          | BMV1+p | MT20 | 3.0 | 4.0 |           |

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

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD  |
|----------|----------------|------------------|-------|-------|
| JT       | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| S        | VERT           | DOWN             | IN-SX | IN-SX |
| K        | 2088 0         | 2088 0           | 5-8   | 5-8   |

| UNFACTORED REACTIONS | 1ST LOOSE  | MAX/MIN. COMPONENT REACTIONS       |
|----------------------|------------|------------------------------------|
| JT                   | COMBINED   | SNOW LIVE PERM LIVE WIND DEAD SOIL |
| S                    | 1458 971/0 | 0/0 0/0 0/0 488/0 0/0              |
| K                    | 1458 971/0 | 0/0 0/0 0/0 488/0 0/0              |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.28 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED                                   | WEBS  | MAX. FACTORED                         |
|--------|---------------|--------------------------------------------|-------|---------------------------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF) MAX. UNBRACED LENGTH (FT) | MEMB. | FORCE (LBS) MAX. UNBRACED LENGTH (FT) |
| FR-TO  |               |                                            | FR-TO |                                       |
| A-B    | 0/41          | -91.8 -91.8 0.13 (1)                       | R-C   | -248/7 0.14 (1)                       |
| B-C    | -2004/0       | -91.8 -91.8 0.84 (1)                       | C-Q   | 0/1538 0.35 (1)                       |
| C-D    | -2653/0       | -91.8 -91.8 0.74 (1)                       | D-O   | -943/0 0.65 (1)                       |
| D-E    | -2978/0       | -91.8 -91.8 0.78 (1)                       | E-F   | 0/480 0.10 (1)                        |
| E-F    | -2978/0       | -91.8 -91.8 0.78 (1)                       | F-G   | -513/0 0.30 (1)                       |
| F-G    | -2978/0       | -91.8 -91.8 0.78 (1)                       | G-H   | 0/480 0.10 (1)                        |
| G-H    | -2653/0       | -91.8 -91.8 0.74 (1)                       | H-I   | -943/0 0.55 (1)                       |
| H-I    | -2004/0       | -91.8 -91.8 0.84 (1)                       | I-J   | 0/1538 0.35 (1)                       |
| I-J    | 0/41          | -91.8 -91.8 0.13 (1)                       | J-K   | -248/7 0.14 (1)                       |
| J-K    | -2028/0       | 0.0 0.0 0.22 (1)                           | K-L   | 0/1580 0.38 (1)                       |
| K-L    | -2028/0       | 0.0 0.0 0.22 (1)                           | L-I   | 0/1580 0.38 (1)                       |
| S-R    | 0/0           | -18.5 -18.5 0.14 (4)                       |       |                                       |
| R-Q    | 0/1532        | -18.5 -18.5 0.33 (1)                       |       |                                       |
| Q-P    | 0/2863        | -18.5 -18.5 0.49 (1)                       |       |                                       |
| P-O    | 0/2863        | -18.5 -18.5 0.49 (1)                       |       |                                       |
| O-N    | 0/2863        | -18.5 -18.5 0.49 (1)                       |       |                                       |
| N-M    | 0/2863        | -18.5 -18.5 0.49 (1)                       |       |                                       |
| M-L    | 0/1532        | -18.5 -18.5 0.33 (1)                       |       |                                       |
| L-K    | 0/0           | -18.5 -18.5 0.14 (4)                       |       |                                       |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(56% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (LL) = L/898 (0.18")  
ALLOWABLE DEFL. (TL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (TL) = L/998 (0.28")

CSI: TC=0.78/1.00 (E-G:1), BC=0.49/1.00 (M-O:1), WB=0.55/1.00 (G-M:1), SS=0.27/1.00 (C-D: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

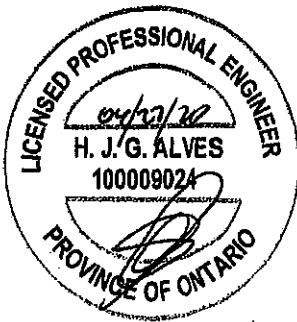
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES:  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 364 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

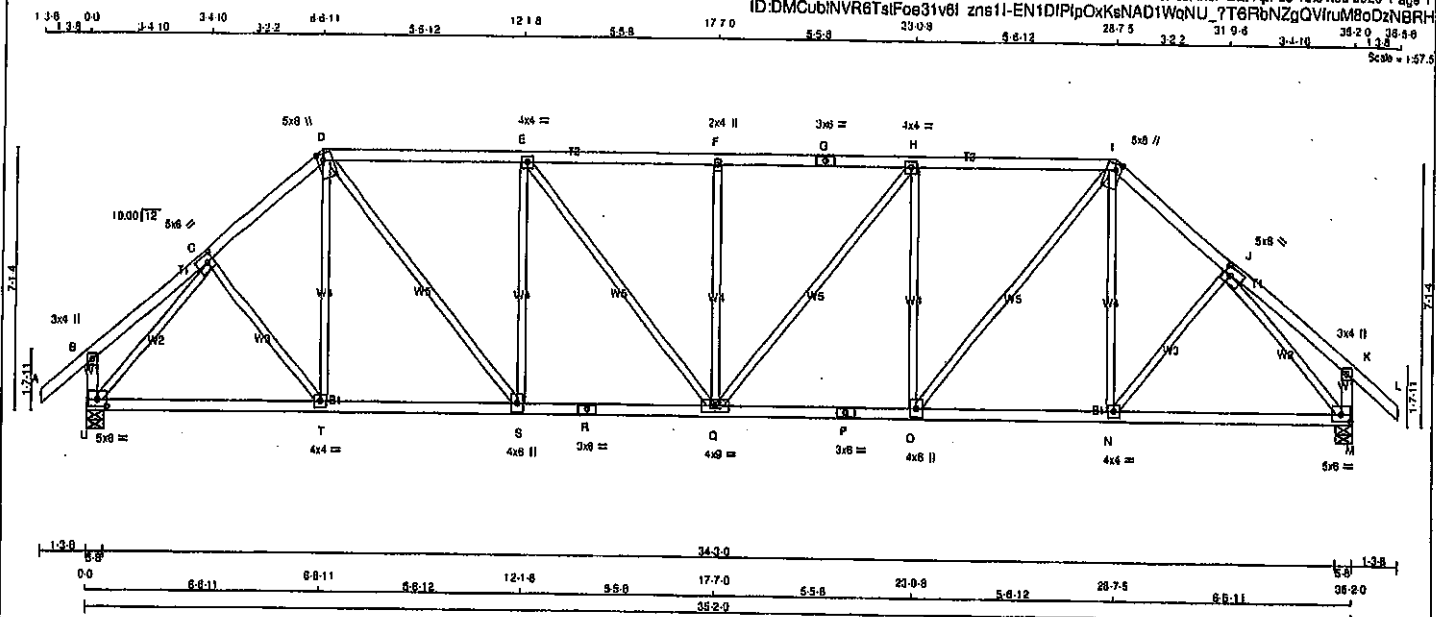
JSI GRIP = 0.80 (B) (INPUT = 0.90)  
JSI METAL = 0.85 (N) (INPUT = 1.00)



Structural component only  
DWG# T-2007132

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408168</b>       | TRUSS NAME<br><b>T4</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

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

| PLATES (table in inches) |        |     |       |           |
|--------------------------|--------|-----|-------|-----------|
| JT TYPE                  | PLATES | W   | LEN Y | X         |
| A - D                    | MT20   | 3.0 | 4.0   |           |
| B - C                    | MT20   | 5.0 | 8.0   | 2.50 2.25 |
| D - E                    | MT20   | 5.0 | 8.0   | 2.00 1.75 |
| E - F                    | MT20   | 4.0 | 4.0   |           |
| F - G                    | MT20   | 2.0 | 4.0   |           |
| G - H                    | MT20   | 3.0 | 8.0   |           |
| H - I                    | MT20   | 4.0 | 4.0   |           |
| I - J                    | MT20   | 5.0 | 8.0   | 2.00 1.75 |
| J - K                    | MT20   | 5.0 | 8.0   | 2.50 2.25 |
| K - L                    | MT20   | 3.0 | 4.0   |           |
| L - M                    | MT20   | 5.0 | 8.0   | 2.25 3.00 |
| M - N                    | MT20   | 4.0 | 4.0   |           |
| N - O                    | MT20   | 4.0 | 4.0   |           |
| O - P                    | MT20   | 3.0 | 8.0   |           |
| P - Q                    | MT20   | 4.0 | 4.0   |           |
| Q - R                    | MT20   | 4.0 | 4.0   |           |
| R - S                    | MT20   | 4.0 | 4.0   |           |
| S - T                    | MT20   | 4.0 | 4.0   |           |
| T - U                    | MT20   | 4.0 | 4.0   |           |
| U - V                    | MT20   | 5.0 | 8.0   | 2.25 3.00 |

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

| BEARINGS |      | FACTORED |      | GROSS REACTION |        | MAXIMUM FACTORED |       | INPUT |       | REQD  |       |
|----------|------|----------|------|----------------|--------|------------------|-------|-------|-------|-------|-------|
| JT       | VERY | HORZ     | DOWN | HORZ           | UPLIFT | IN-SX            | IN-SX | IN-SX | IN-SX | IN-SX | IN-SX |
| U        | 2068 | 0        | 2068 | 0              | 0      | 5-8              | 5-8   | 5-8   | 5-8   | 5-8   | 5-8   |
| M        | 2068 | 0        | 2068 | 0              | 0      | 5-8              | 5-8   | 5-8   | 5-8   | 5-8   | 5-8   |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX MIN COMPONENT REACTIONS |      | FACTORED  |      | GROSS REACTION |      | MAXIMUM FACTORED |       | INPUT |       | REQD  |       |
|-----------|----------|-----------------------------|------|-----------|------|----------------|------|------------------|-------|-------|-------|-------|-------|
| JT        | COMBINED | SNOW                        | LIVE | PERMALIVE | WIND | DEAD           | SOIL | IN-SX            | IN-SX | IN-SX | IN-SX | IN-SX | IN-SX |
| U         | 1458     | 971/0                       | 0/0  | 0/0       | 0/0  | 488/0          | 0/0  | 5-8              | 5-8   | 5-8   | 5-8   | 5-8   | 5-8   |
| M         | 1458     | 971/0                       | 0/0  | 0/0       | 0/0  | 488/0          | 0/0  | 5-8              | 5-8   | 5-8   | 5-8   | 5-8   | 5-8   |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED   |                | WEBS  |             | FACTORED   |                |
|--------|-------------|------------|----------------|-------|-------------|------------|----------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX (PLF)  | MEMB. | FORCE (LBS) | VERT. LOAD | LC1 MAX (PLF)  |
| FR-TO  |             | FROM       | TO             | FR-TO |             | FROM       | TO             |
| A-B    | 0/41        | -91.8      | -91.8 0.13 (1) | C-T   | 0/158       | 0.04 (1)   | 10.00          |
| B-C    | 0/19        | -91.8      | -91.8 0.14 (1) | D-S   | 0/76        | 0.03 (4)   | 10.00          |
| C-D    | -2023/0     | -91.8      | -91.8 0.20 (1) | E-S   | 0/1220      | 0.27 (1)   | 10.00          |
| D-E    | -2308/0     | -91.8      | -91.8 0.55 (1) | F-S   | -850/0      | 0.74 (1)   | 10.00          |
| E-F    | -2534/0     | -91.8      | -91.8 0.57 (1) | G-H   | 0/381       | 0.08 (1)   | 10.00          |
| F-G    | -2534/0     | -91.8      | -91.8 0.57 (1) | H-I   | -481/0      | 0.40 (1)   | 10.00          |
| G-H    | -2534/0     | -91.8      | -91.8 0.57 (1) | I-J   | 0/381       | 0.08 (1)   | 10.00          |
| H-I    | -2308/0     | -91.8      | -91.8 0.55 (1) | J-K   | -850/0      | 0.74 (1)   | 10.00          |
| I-J    | -2023/0     | -91.8      | -91.8 0.20 (1) | K-L   | 0/1220      | 0.27 (1)   | 10.00          |
| J-K    | 0/19        | -91.8      | -91.8 0.14 (1) | L-M   | 0/76        | 0.03 (4)   | 10.00          |
| K-L    | 0/41        | -91.8      | -91.8 0.13 (1) | M-N   | 0/158       | 0.04 (1)   | 10.00          |
| L-M    | -248/0      | 0.0        | 0.0 0.03 (1)   | N-O   | -2277/0     | 0.88 (1)   | 10.00          |
| M-N    | -248/0      | 0.0        | 0.0 0.03 (1)   | O-P   | -2277/0     | 0.88 (1)   | 10.00          |
| N-O    | 0/1433      | -18.5      | -18.5 0.33 (1) | P-Q   | 0/1433      | -18.5      | -18.5 0.33 (1) |
| O-P    | 0/1635      | -18.5      | -18.5 0.35 (1) | Q-R   | 0/2308      | -18.5      | -18.5 0.42 (1) |
| P-Q    | 0/2308      | -18.5      | -18.5 0.42 (1) | R-S   | 0/2308      | -18.5      | -18.5 0.42 (1) |
| Q-R    | 0/2308      | -18.5      | -18.5 0.42 (1) | S-T   | 0/2308      | -18.5      | -18.5 0.42 (1) |
| R-S    | 0/2308      | -18.5      | -18.5 0.42 (1) | T-U   | 0/2308      | -18.5      | -18.5 0.42 (1) |
| S-T    | 0/2308      | -18.5      | -18.5 0.42 (1) | U-V   | 0/2308      | -18.5      | -18.5 0.42 (1) |
| T-U    | 0/1635      | -18.5      | -18.5 0.35 (1) | V-W   | 0/1433      | -18.5      | -18.5 0.33 (1) |
| U-V    | 0/1433      | -18.5      | -18.5 0.33 (1) | W-X   | 0/1433      | -18.5      | -18.5 0.33 (1) |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TO=0.57/1.00 (E-F:1), BC=0.42/1.00 (O-Q:1),  
WB=0.98/1.00 (J-M:1), SS=0.24/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

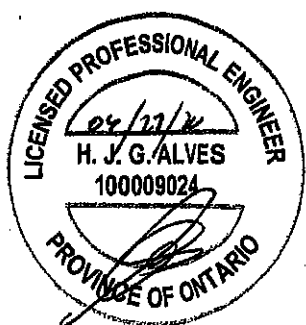
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

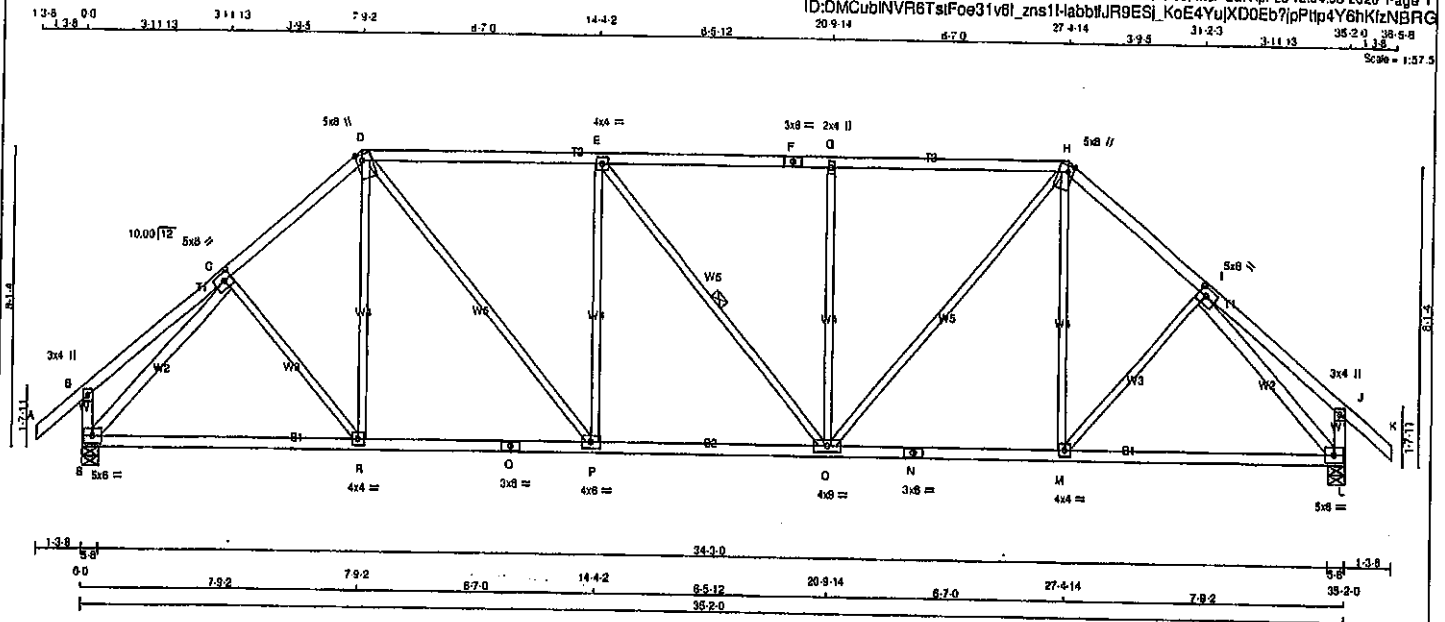
JSI GRIP=0.89 (I) (INPUT = 0.90)  
JSI METAL=0.72 (P) (INPUT = 1.00)



Structural component only  
DWG# T-2007133

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|---------------------------------|------------|----------|-----|------------------|-------------|----------|
| 408168                          | T5         | 2        | 1   | GREEN PARK HOMES |             |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |             |          |

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ID:DMCubINVR6tstFoe31v6l\_zns1-labbllJR9ESl\_KoE4YuXDOEb7jpPtp4Y6hKfzNBRG



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

|          |     |          |
|----------|-----|----------|
| ALL WEBS | 2x3 | DRY No.2 |
| EXCEPT   |     |          |
| S - 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 |      |      |
| D  | TMVW-1 | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| C  | TTWW+m | MT20   | 5.0 | 8.0 | 2.00 | 1.75 |
| E  | TMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| F  | TS-1   | MT20   | 3.0 | 8.0 |      |      |
| G  | TMVW+m | MT20   | 2.0 | 4.0 |      |      |
| H  | TTWW+m | MT20   | 5.0 | 8.0 | 2.00 | 1.75 |
| I  | TMVW-1 | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| J  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| L  | BMVW-1 | MT20   | 5.0 | 8.0 |      |      |
| M  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| N  | BS-1   | MT20   | 3.0 | 8.0 |      |      |
| O  | BMVW-1 | MT20   | 4.0 | 8.0 |      |      |
| P  | BMVW-1 | MT20   | 4.0 | 8.0 |      |      |
| Q  | BS-1   | MT20   | 3.0 | 8.0 |      |      |
| R  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| S  | BMVW-1 | MT20   | 5.0 | 8.0 |      |      |

#### 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           | DOWN             | UP    | IN-SX |
| S        | 2068 0         | 2068 0           | 0     | 5-8   |
| L        | 2068 0         | 2068 0           | 0     | 5-8   |

#### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN  | COMPONENT REACTIONS |
|----------|----------|---------------------|
| JT       | COMBINED | SNOW                |
| S        | 1458     | 971 / 0             |
| L        | 1458     | 971 / 0             |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 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-O.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED         | MAX            | W E B S | MAX. FACTORED |
|--------|---------------|------------------|----------------|---------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF) | CS1 (LC)       | MEMB.   | FORCE (LBS)   |
| FR-TO  |               | FROM             | TO             | FR-TO   |               |
| A-B    | 0 / 41        | -91.8            | -91.8 0.13 (1) | 10.00   | 0 / 84        |
| B-C    | 0 / 28        | -91.8            | -91.8 0.21 (1) | 10.00   | 0 / 126       |
| C-D    | -2008 / 0     | -91.8            | -91.8 0.29 (1) | 4.50    | 0 / 998       |
| D-E    | -2163 / 0     | -91.8            | -91.8 0.73 (1) | 3.81    | P-E -850 / 0  |
| E-F    | -2162 / 0     | -91.8            | -91.8 0.78 (1) | 3.81    | E-O -2 / 0    |
| F-G    | -2162 / 0     | -91.8            | -91.8 0.73 (1) | 3.81    | O-G -849 / 0  |
| G-H    | -2162 / 0     | -91.8            | -91.8 0.73 (1) | 3.82    | O-H 0 / 998   |
| H-I    | -2008 / 0     | -91.8            | -91.8 0.29 (1) | 4.50    | M-H 0 / 126   |
| I-J    | 0 / 26        | -91.8            | -91.8 0.21 (1) | 10.00   | M-I 0 / 84    |
| J-K    | 0 / 41        | -91.8            | -91.8 0.13 (1) | 10.00   | S-C -2291 / 0 |
| S-B    | -264 / 0      | 0.0              | 0.0 0.03 (1)   | 7.81    | I-L -2291 / 0 |
| L-J    | -264 / 0      | 0.0              | 0.0 0.03 (1)   | 7.81    |               |

|     |          |       |                |       |
|-----|----------|-------|----------------|-------|
| S-R | 0 / 1487 | -18.5 | -18.5 0.38 (1) | 10.00 |
| R-Q | 0 / 1519 | -18.5 | -18.5 0.39 (1) | 10.00 |
| Q-P | 0 / 1519 | -18.5 | -18.5 0.39 (1) | 10.00 |
| P-O | 0 / 2183 | -18.5 | -18.5 0.42 (1) | 10.00 |
| O-N | 0 / 1519 | -18.5 | -18.5 0.39 (1) | 10.00 |
| N-M | 0 / 1519 | -18.5 | -18.5 0.39 (1) | 10.00 |
| M-L | 0 / 1487 | -18.5 | -18.5 0.38 (1) | 10.00 |

TOTAL WEIGHT = 2 X 163 = 326 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/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 NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CS1: TC=0.73/1.00 (D-E:1), BC=0.42/1.00 (O-P:1), WB=0.97/1.00 (I-L:1), GS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

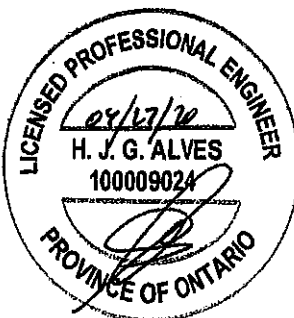
#### NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1697 788 1937 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (INPUT = 0.90)  
JSI METAL = 0.56 (INPUT = 1.00)



Structural component only  
DWG# T-2007134

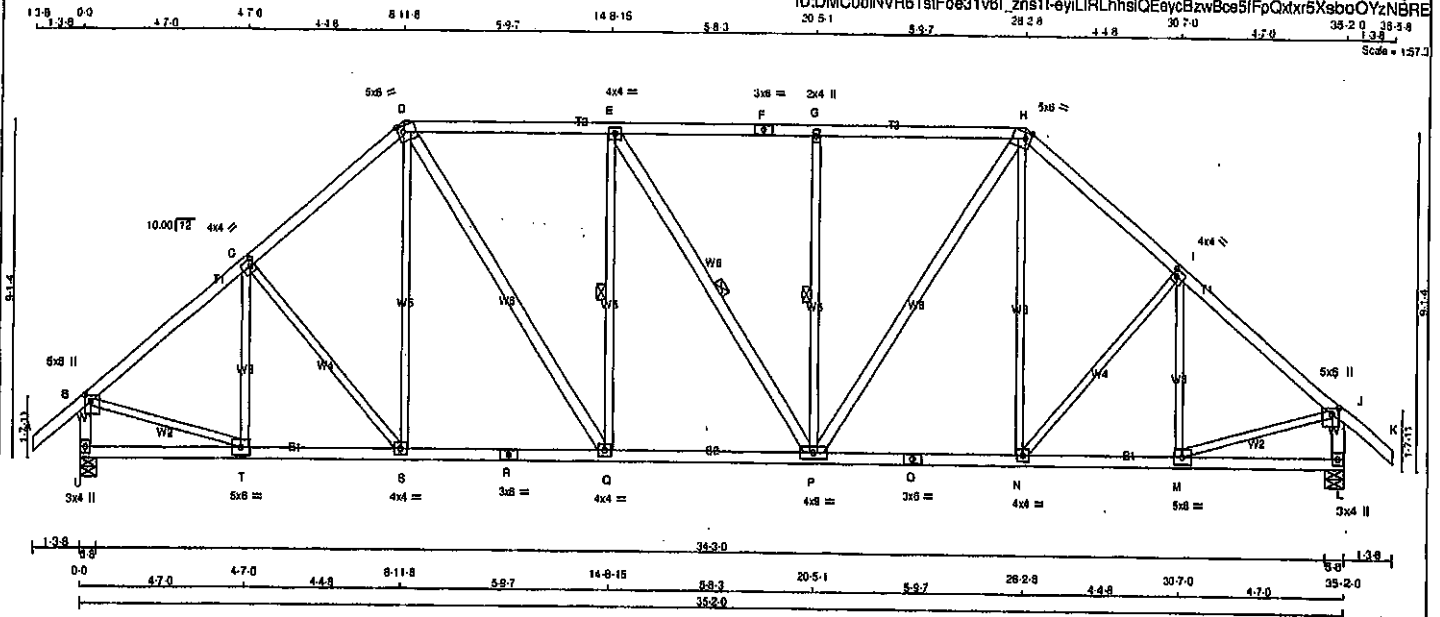
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|---------------------------------|------------|----------|-----|------------------|----------|
| 408168                          | T6         | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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35-2.0 38-5.8 1.38

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



TOTAL WEIGHT = 2 X 182 = 363 lb

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |        |     |     |           |
|--------------------------|--------|-----|-----|-----------|
| JT TYPE                  | PLATES | W   | LEN | Y X       |
| B TMVW+P                 | MT20   | 5.0 | 8.0 | 2.00 2.00 |
| C TMVW-I                 | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| D TTWW-m                 | MT20   | 5.0 | 8.0 | 2.00 1.75 |
| E TMVW-I                 | MT20   | 4.0 | 4.0 |           |
| F TS-I                   | MT20   | 3.0 | 8.0 |           |
| G TMVW-m                 | MT20   | 2.0 | 4.0 |           |
| H TTWW-m                 | MT20   | 5.0 | 8.0 | 2.00 1.75 |
| I TMVW-I                 | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| J TMVW+P                 | MT20   | 5.0 | 8.0 | 2.00 2.00 |
| L BMV1+P                 | MT20   | 3.0 | 4.0 |           |
| M BMVW-I                 | MT20   | 5.0 | 8.0 |           |
| N, Q, S                  |        |     |     |           |
| N BMVW-I                 | MT20   | 4.0 | 4.0 |           |
| O BS-I                   | MT20   | 3.0 | 8.0 |           |
| P BMVW+P                 | MT20   | 4.0 | 4.0 |           |
| R BS-I                   | MT20   | 3.0 | 8.0 |           |
| T BMVW-I                 | MT20   | 5.0 | 8.0 |           |
| U BMV1+P                 | MT20   | 3.0 | 4.0 |           |

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

BUILDING DESIGNER

BEARINGS

| JT | FACTORED       |      | MAXIMUM FACTORED |    | INPUT | RECORD |
|----|----------------|------|------------------|----|-------|--------|
|    | GROSS REACTION | DOWN | GROSS REACTION   | UP |       |        |
| U  | 2068           | 0    | 2068             | 0  | 5-8   | 5-8    |
| L  | 2068           | 0    | 2068             | 0  | 5-8   | 5-8    |

UNFACTORED REACTIONS

| JT | 1ST CASE |         | MAX./MIN. COMPONENT REACTIONS |            | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------------------------------|------------|-------|---------|-------|
|    | COMBINED | SNOW    | LIVE                          | PERM. LIVE |       |         |       |
| U  | 1458     | 971 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |
| L  | 1458     | 971 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             |                           |                     | WEBS  |             |                     |                     |
|--------|-------------|---------------------------|---------------------|-------|-------------|---------------------|---------------------|
| MEMB.  | FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED (PLF) | MEMB. | FORCE (LBS) | MAX. FACTORED (PLF) | MAX. FACTORED (PLF) |
| FR-TO  |             | FROM                      | TO                  | FR-TO |             | FROM                | TO                  |
| A-B    | 0 / 41      | -91.8                     | -91.8 0.13 (1)      | 10.00 | T-C         | -357 / 0            | 0.16 (1)            |
| B-C    | -1994 / 0   | -91.8                     | -91.8 0.30 (1)      | 4.53  | C-S         | -121 / 0            | 0.10 (1)            |
| C-D    | -1957 / 0   | -91.8                     | -91.8 0.29 (1)      | 4.57  | S-D         | 0 / 188             | 0.05 (4)            |
| D-E    | -1923 / 0   | -91.8                     | -91.8 0.40 (1)      | 4.44  | D-Q         | 0 / 810             | 0.13 (1)            |
| E-F    | -1921 / 0   | -91.8                     | -91.8 0.37 (1)      | 4.48  | Q-E         | -568 / 0            | 0.31 (1)            |
| F-G    | -1921 / 0   | -91.8                     | -91.8 0.37 (1)      | 4.49  | E-P         | -3 / 0              | 0.00 (1)            |
| G-H    | -1921 / 0   | -91.8                     | -91.8 0.40 (1)      | 4.45  | P-G         | -568 / 0            | 0.31 (1)            |
| H-I    | -1957 / 0   | -91.8                     | -91.8 0.29 (1)      | 4.57  | P-H         | 0 / 807             | 0.13 (1)            |
| I-J    | -1994 / 0   | -91.8                     | -91.8 0.30 (1)      | 4.53  | H-N         | 0 / 169             | 0.05 (4)            |
| J-K    | 0 / 41      | -91.8                     | -91.8 0.13 (1)      | 10.00 | N-I         | -121 / 0            | 0.10 (1)            |
| U-B    | -2028 / 0   | 0.0                       | 0.0 0.22 (1)        | 5.94  | M-I         | -358 / 0            | 0.16 (1)            |
| L-J    | -2028 / 0   | 0.0                       | 0.0 0.22 (1)        | 5.94  | B-T         | 0 / 1617            | 0.36 (1)            |
|        |             |                           |                     |       | M-J         | 0 / 1617            | 0.36 (1)            |
| U-T    | 0 / 0       | -18.5                     | -18.5 0.08 (4)      | 10.00 |             |                     |                     |
| T-S    | 0 / 1555    | -18.5                     | -18.5 0.30 (1)      | 10.00 |             |                     |                     |
| S-R    | 0 / 1477    | -18.5                     | -18.5 0.30 (1)      | 10.00 |             |                     |                     |
| R-Q    | 0 / 1477    | -18.5                     | -18.5 0.30 (1)      | 10.00 |             |                     |                     |
| Q-P    | 0 / 1923    | -18.5                     | -18.5 0.38 (1)      | 10.00 |             |                     |                     |
| P-O    | 0 / 1478    | -18.5                     | -18.5 0.30 (1)      | 10.00 |             |                     |                     |
| O-N    | 0 / 1478    | -18.5                     | -18.5 0.30 (1)      | 10.00 |             |                     |                     |
| N-M    | 0 / 1555    | -18.5                     | -18.5 0.31 (1)      | 10.00 |             |                     |                     |
| M-L    | 0 / 0       | -18.5                     | -18.5 0.08 (4)      | 10.00 |             |                     |                     |

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA C88-09, CSA C88-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.40/1.00 (D-E:1), BC=0.39/1.00 (P-Q:1), WB=0.39/1.00 (B-T:1), SI=0.25/1.00 (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)  
MAX MIN MAX MIN MAX MIN  
MT20 816 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

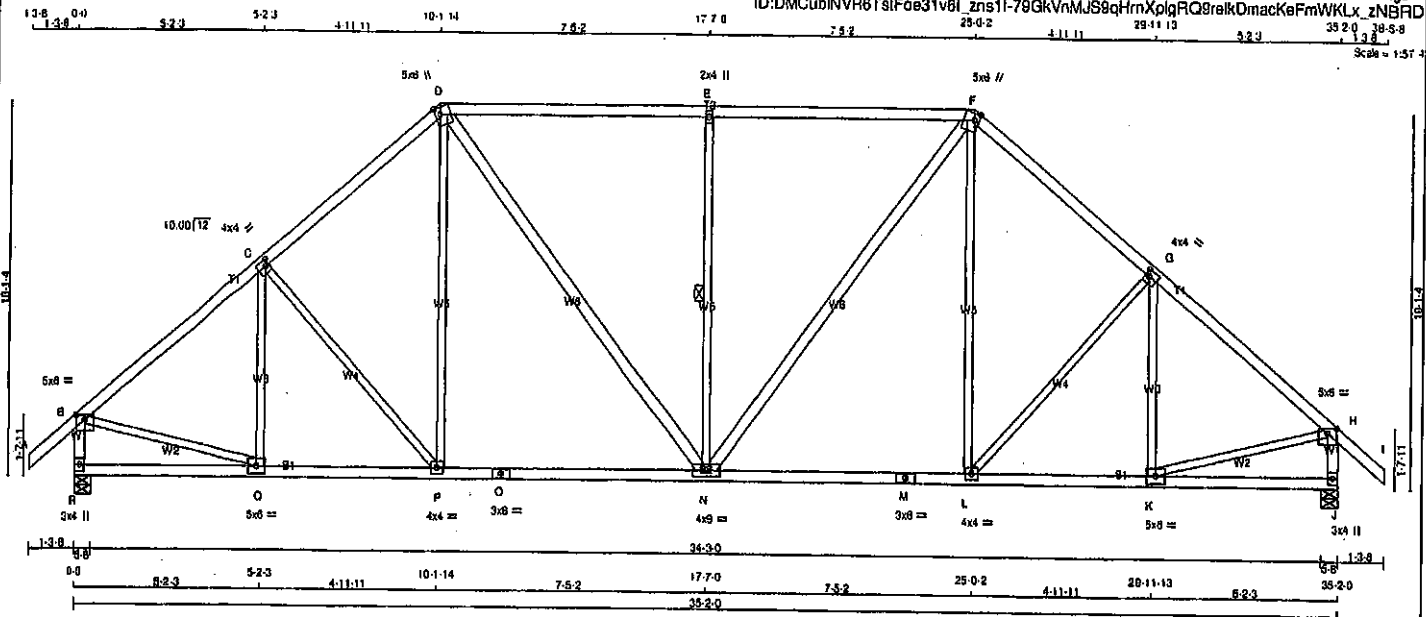
JSI GRIP = 0.89 (B) (INPUT = 0.80)  
JSI METAL = 0.50 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007135

| JOB NAME                        | TRUSS NAME | QUANTITY | PLV | JOB DESC.        | DRWG NO. |
|---------------------------------|------------|----------|-----|------------------|----------|
| 408168                          | T7         | 5        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

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ID:DMCubINVR6TslFoe31v6l\_zns11-79GkVnMJS9qhmXpqlRQ8raikDmackeFmWKLx\_zNBBD



| CHORDS | SIZE | DRY | LUMBER |
|--------|------|-----|--------|
| A - D  | 2x4  | DRY | No.2   |
| D - F  | 2x4  | DRY | No.2   |
| F - I  | 2x4  | DRY | No.2   |
| I - B  | 2x4  | DRY | No.2   |
| B - H  | 2x4  | DRY | No.2   |
| H - O  | 2x4  | DRY | No.2   |
| O - M  | 2x4  | DRY | No.2   |
| M - J  | 2x4  | DRY | No.2   |

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW-p | MT20   | 6.0 | 8.0 | 1.50 | 3.00 |
| B  | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D  | TTWW-w | MT20   | 2.0 | 4.0 |      |      |
| E  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| F  | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| G  | TMVW-p | MT20   | 6.0 | 8.0 | 1.50 | 3.00 |
| H  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW-l | MT20   | 5.0 | 6.0 |      |      |
| L  | BMVW-l | MT20   | 4.0 | 4.0 |      |      |
| M  | BS-l   | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-w | MT20   | 4.0 | 9.0 |      |      |
| O  | BS-l   | MT20   | 3.0 | 6.0 |      |      |
| P  | BMVW-l | MT20   | 4.0 | 4.0 |      |      |
| Q  | BMVW-l | MT20   | 5.0 | 6.0 |      |      |
| R  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | RECORD |
|----------|----------------|------------------|-------|--------|
| JT       | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| R        | VERT           | HORZ             | DOWN  | HORZ   |
| J        | 2068           | 0                | 2068  | 0      |
| R        | 2068           | 0                | 2068  | 0      |

#### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN. COMPONENT REACTIONS |
|----------|------------------------------|
| JT       | COMBINED                     |
| R        | 1458                         |
| J        | 1458                         |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.98 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) | MAX. UNBRACED LENGTH (FT) | WEBS  | MEMB.  | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |
|--------|---------|---------------------------|---------------------------|---------------------------|-------|--------|---------------------------|---------------------------|
| FR-TO  |         |                           |                           |                           | FR-TO |        |                           |                           |
| A-B    | 0/141   | -91.8                     | -91.8                     | 0.13 (1)                  | C-Q   | -302/0 | 0.17 (1)                  |                           |
| B-C    | -2021/0 | -91.8                     | -91.8                     | 0.39 (1)                  | C-P   | -217/0 | 0.25 (1)                  |                           |
| C-D    | -1908/0 | -91.8                     | -91.8                     | 0.37 (1)                  | P-D   | 0/278  | 0.08 (1)                  |                           |
| D-E    | -1809/0 | -91.8                     | -91.8                     | 0.74 (1)                  | D-N   | 0/615  | 0.10 (1)                  |                           |
| E-F    | -1809/0 | -91.8                     | -91.8                     | 0.74 (1)                  | N-E   | -832/0 | 0.58 (1)                  |                           |
| F-G    | -1908/0 | -91.8                     | -91.8                     | 0.37 (1)                  | N-F   | 0/615  | 0.10 (1)                  |                           |
| G-H    | -2021/0 | -91.8                     | -91.8                     | 0.39 (1)                  | L-F   | -0/278 | 0.08 (1)                  |                           |
| H-I    | 0/141   | -91.8                     | -91.8                     | 0.13 (1)                  | L-G   | -217/0 | 0.25 (1)                  |                           |
| R-B    | -2024/0 | 0.0                       | 0.0                       | 0.22 (1)                  | K-G   | -302/0 | 0.17 (1)                  |                           |
| J-H    | -2024/0 | 0.0                       | 0.0                       | 0.22 (1)                  | B-Q   | 0/1829 | 0.37 (1)                  |                           |
| R-Q    | 0/0     | -18.5                     | -18.5                     | 0.10 (4)                  | K-H   | 0/1829 | 0.37 (1)                  |                           |
| Q-P    | 0/1580  | -18.5                     | -18.5                     | 0.34 (1)                  |       |        |                           |                           |
| P-O    | 0/1437  | -18.5                     | -18.5                     | 0.35 (1)                  |       |        |                           |                           |
| O-N    | 0/1437  | -18.5                     | -18.5                     | 0.35 (1)                  |       |        |                           |                           |
| N-M    | 0/1437  | -18.5                     | -18.5                     | 0.35 (1)                  |       |        |                           |                           |
| M-L    | 0/1437  | -18.5                     | -18.5                     | 0.35 (1)                  |       |        |                           |                           |
| L-K    | 0/1580  | -18.5                     | -18.5                     | 0.34 (1)                  |       |        |                           |                           |
| K-J    | 0/0     | -18.5                     | -18.5                     | 0.10 (4)                  |       |        |                           |                           |

TOTAL WEIGHT = 5 X 173 = 867 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF

DL = 8.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 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, NBC 2010, NBC 2015

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17')

CALCULATED VERT. DEFL.(LL) = L/999 (0.08')

ALLOWABLE DEFL.(TL) = L/360 (1.17')

CALCULATED VERT. DEFL.(TL) = L/999 (0.17')

CSI: TC=0.74/1.00 (D-E:1), BC=0.35/1.00 (L-N:1),

WB=0.58/1.00 (E-N:1), SS=0.33/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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 616 354 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.80)

JSI METAL = 0.46 (O) (INPUT = 1.00)



Structural component only  
DWG# T-2007138



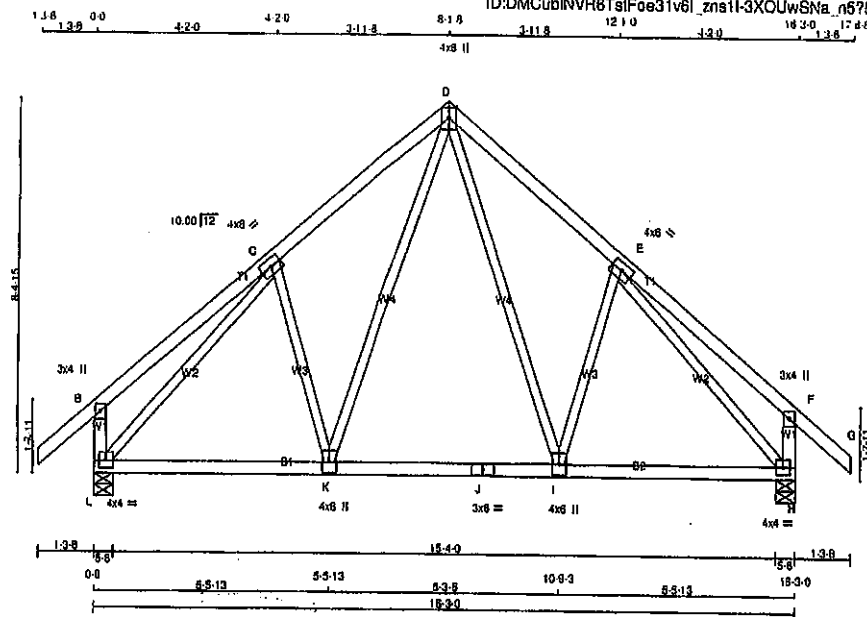
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|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408168                          | T9         | 6           | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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ID:DMCubINVR6TstFoe31v6l\_zns11-3XOUwsNa\_n5755hBisUueGID\_0Uq4EhYDqS7ztNBRB

Scale: 1/4"=1'



TOTAL WEIGHT = 8 X 80 = 481 lb

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

| JT TYPE  | PLATES | W   | LEN | Y | X |
|----------|--------|-----|-----|---|---|
| B TMV+p  | MT20   | 3.0 | 4.0 |   |   |
| C TMWW+1 | MT20   | 4.0 | 8.0 |   |   |
| D TTWW+p | MT20   | 4.0 | 8.0 |   |   |
| E TMWW+1 | MT20   | 4.0 | 8.0 |   |   |
| F TMV+p  | MT20   | 3.0 | 4.0 |   |   |
| H BMVW+1 | MT20   | 4.0 | 4.0 |   |   |
| I BMVW+1 | MT20   | 4.0 | 8.0 |   |   |
| J BS+1   | MT20   | 3.0 | 8.0 |   |   |
| K BMVW+1 | MT20   | 4.0 | 8.0 |   |   |
| L BMVW+1 | MT20   | 4.0 | 4.0 |   |   |

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

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD   |
|----------|----------------|------------------|-------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | DOWN             | HORIZ | UPLIFT |
| L        | 1023           | 0                | 1023  | 0      |
| H        | 1023           | 0                | 1023  | 0      |

| UNFACTORED REACTIONS | 1ST LOOSE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|-----------|------------------------------|
| JT                   | COMBINED  | SNOW                         |
| L                    | 721       | 487 / 0                      |
| H                    | 721       | 487 / 0                      |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.28 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 |               |             |            | WEB 6 |          |          |                      |          |               |             |              |
|--------|---------------|-------------|------------|-------|----------|----------|----------------------|----------|---------------|-------------|--------------|
| MEMB.  | MAX. FACTORED | FORCE (LBS) | VERT. LOAD | LC1   | MAX      | CS1 (LC) | MAX. UNBRACED LENGTH | MEMB.    | MAX. FACTORED | FORCE (LBS) | MAX CS1 (LC) |
| FR-TO  |               |             | FROM       | TO    |          |          |                      | FR-TO    |               |             |              |
| A-B    | 0 / 41        |             | -91.8      | -91.8 | 0.13 (1) | 10.00    | D-I                  | 0 / 330  | 0.07 (1)      |             |              |
| B-C    | 0 / 28        |             | -91.8      | -91.8 | 0.24 (1) | 10.00    | I-E                  | -216 / 0 | 0.09 (1)      |             |              |
| C-D    | -745 / 0      |             | -91.8      | -91.8 | 0.19 (1) | 8.25     | K-D                  | 0 / 330  | 0.07 (1)      |             |              |
| D-E    | -745 / 0      |             | -91.8      | -91.8 | 0.19 (1) | 8.25     | C-K                  | -216 / 0 | 0.09 (1)      |             |              |
| E-F    | 0 / 28        |             | -91.8      | -91.8 | 0.24 (1) | 10.00    | L-C                  | -943 / 0 | 0.81 (1)      |             |              |
| F-G    | 0 / 41        |             | -91.8      | -91.8 | 0.13 (1) | 10.00    | E-H                  | -943 / 0 | 0.81 (1)      |             |              |
| L-B    | -267 / 0      |             | 0.0        | 0.0   | 0.03 (1) | 7.81     |                      |          |               |             |              |
| H-F    | -267 / 0      |             | 0.0        | 0.0   | 0.03 (1) | 7.81     |                      |          |               |             |              |
|        |               |             |            |       |          |          |                      |          |               |             |              |
| L-K    | 0 / 618       |             | -18.5      | -18.5 | 0.17 (4) | 10.00    |                      |          |               |             |              |
| K-J    | 0 / 449       |             | -18.5      | -18.5 | 0.16 (4) | 10.00    |                      |          |               |             |              |
| J-I    | 0 / 449       |             | -18.5      | -18.5 | 0.16 (4) | 10.00    |                      |          |               |             |              |
| I-H    | 0 / 618       |             | -18.5      | -18.5 | 0.17 (4) | 10.00    |                      |          |               |             |              |

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
OL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
OL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2016

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.04")

CS1: TC=0.24/1.00 (B-C:1), BC=0.17/1.00 (H-I:4), WB=0.61/1.00 (C-L:1), SS=0.14/1.00 (C-O: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 1697 788 1997 1859

PLATE PLACEMENT TOL. = 0.250 inches

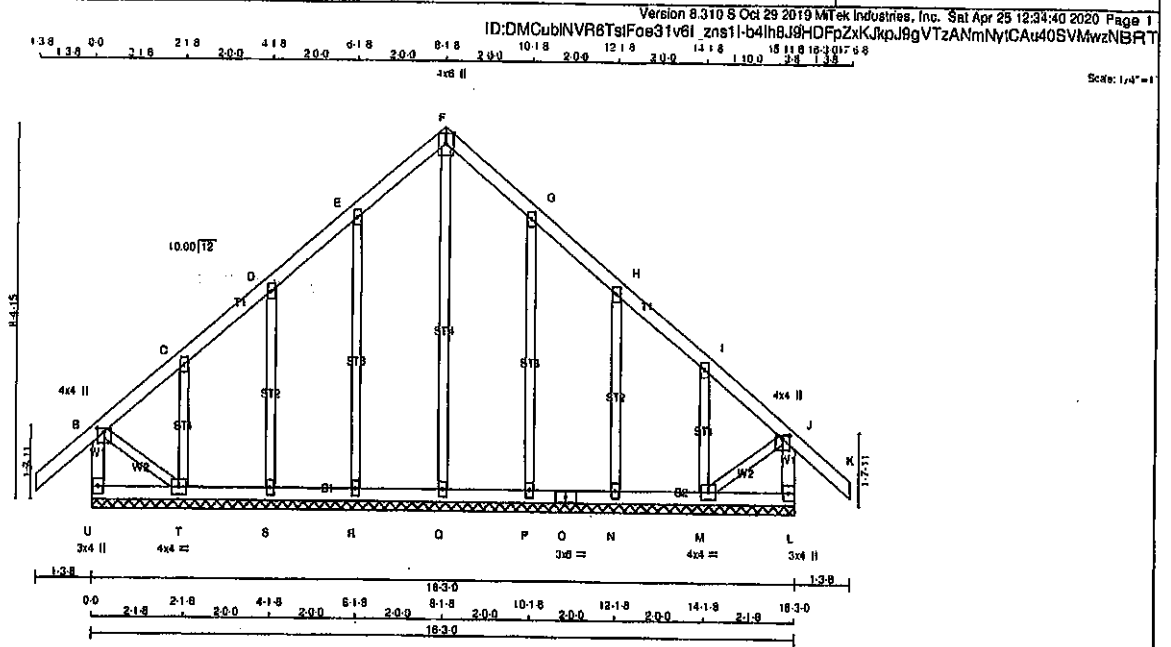
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.76 (C) (INPUT = 0.90)  
JSI METAL=0.25 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007138

|                                 |                  |               |          |                               |          |
|---------------------------------|------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408168              | TRUSS NAME<br>G9 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                  |               |          |                               |          |



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | DRY | No.2 |
|--------|------|-----|------|
| A - F  | 2x4  | DRY | No.2 |
| F - K  | 2x4  | DRY | No.2 |
| U - B  | 2x4  | DRY | No.2 |
| L - J  | 2x4  | DRY | No.2 |
| U - O  | 2x4  | DRY | No.2 |
| O - L  | 2x4  | DRY | No.2 |

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

GABLE STUDS SPACED AT 2-0-0 OC.

**PLATES (table in inches)**

| JT               | TYPE    | PLATES | W   | LEN | Y    | X    |
|------------------|---------|--------|-----|-----|------|------|
| B                | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C, D, E, G, H, I |         |        |     |     |      |      |
| C                | TMVW+w  | MT20   | 2.0 | 4.0 |      |      |
| F                | TTW+p   | MT20   | 4.0 | 8.0 | Edge |      |
| J                | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| L                | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| M                | BMVW1-i | MT20   | 4.0 | 4.0 |      |      |
| N, P, Q, R, S    |         |        |     |     |      |      |
| N                | BMV1+w  | MT20   | 2.0 | 4.0 |      |      |
| O                | BS-i    | MT20   | 3.0 | 8.0 |      |      |
| T                | BMVW1-i | MT20   | 4.0 | 4.0 |      |      |
| U                | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

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

##### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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) | VERT. LOAD (PLF) | MAX. CSI (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. CSI (LC) |
| FR-TO  |                           |                  |                | FR-TO |                           |                           |               |
| A-B    | 0/41                      | -91.8            | -91.8 0.13 (1) | Q-F   | -124/0                    | 10.00                     | 0.17 (1)      |
| B-C    | -28/0                     | -91.8            | -91.8 0.05 (1) | R-E   | -210/0                    | 6.25                      | 0.18 (1)      |
| C-D    | -38/0                     | -91.8            | -91.8 0.05 (1) | S-D   | -169/0                    | 6.25                      | 0.08 (1)      |
| D-E    | -24/0                     | -91.8            | -91.8 0.05 (1) | T-C   | -205/0                    | 6.25                      | 0.04 (1)      |
| E-F    | -38/0                     | -91.8            | -91.8 0.05 (1) | P-G   | -210/0                    | 6.25                      | 0.16 (1)      |
| F-G    | -38/0                     | -91.8            | -91.8 0.05 (1) | N-H   | -169/0                    | 6.25                      | 0.08 (1)      |
| G-H    | -24/0                     | -91.8            | -91.8 0.05 (1) | M-I   | -205/0                    | 6.25                      | 0.04 (1)      |
| H-I    | -38/0                     | -91.8            | -91.8 0.05 (1) | B-T   | 0/37                      | 6.25                      | 0.01 (1)      |
| I-J    | -28/0                     | -91.8            | -91.8 0.05 (1) | M-J   | 0/37                      | 6.25                      | 0.01 (1)      |
| J-K    | 0/41                      | -91.8            | -91.8 0.13 (1) |       |                           |                           |               |
| U-B    | -248/0                    | 0.0              | 0.0 0.03 (1)   |       |                           |                           |               |
| L-J    | -248/0                    | 0.0              | 0.0 0.03 (1)   |       |                           |                           |               |
| U-T    | 0/0                       | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| T-S    | 0/25                      | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| S-R    | 0/21                      | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| R-Q    | 0/18                      | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| Q-P    | 0/18                      | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| P-O    | 0/21                      | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| O-N    | 0/21                      | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| N-M    | 0/25                      | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |
| M-L    | 0/0                       | -18.5            | -18.5 0.02 (4) |       |                           |                           |               |

TOTAL WEIGHT = 81 lb (M)

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 25.8 | PSF |
|            | DL | =    | 8.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 39.0 | PSF  |     |

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2018 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.13/1.00 (A-B:1), BC=0.02/1.00 (M-N:4), WB=0.17/1.00 (F-Q:1), SS=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE GRIP (ORY) | SHEAR (PSI) | SECTION (PLI) |
|------------------|-------------|---------------|
|                  |             |               |
| MT20             | 818         | 354           |
|                  | 1687        | 788           |
|                  | 1687        | 1687          |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.52 (T) (INPUT = 0.90)  
JSI METAL = 0.11 (G) (INPUT = 1.00)

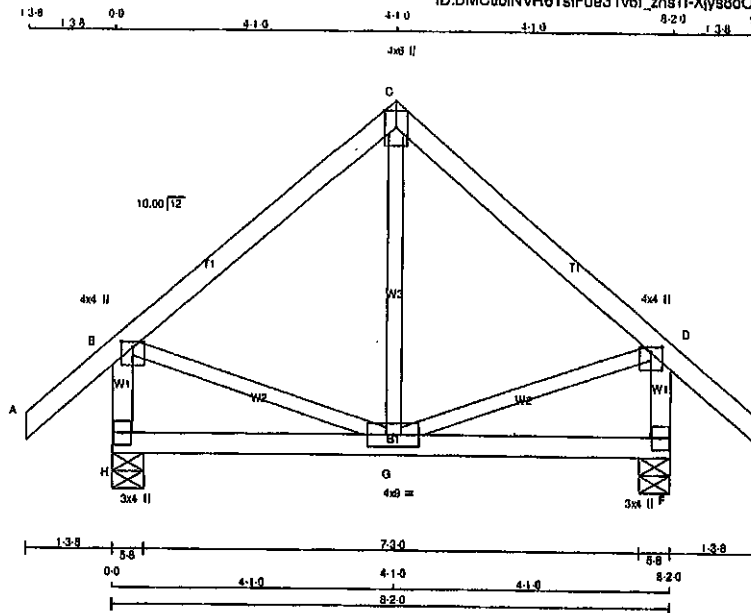


Structural component only  
DWG# T-2007123

|                    |                   |               |          |                               |          |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408168 | TRUSS NAME<br>T10 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:30.3

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

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

#### PLATES (tablets in inches)

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C TTW+p   | MT20   | 4.0 | 8.0 | Edge |      |
| D TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| F BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| G BMVWW-I | MT20   | 4.0 | 9.0 |      |      |
| H BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | RECORD |
|----|----------------|------------------|-------|--------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT | VERT           | HORZ             | DOWN  | HORZ   |
| H  | 577            | 0                | 577   | 0      |
| F  | 577            | 0                | 577   | 0      |

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS | PERM  | LIVE  | WIND  | DEAD    | SOIL  |
|----|----------|---------|---------------------|-------|-------|-------|---------|-------|
| H  | 406      | 280 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0 | 128 / 0 | 0 / 0 |
| F  | 406      | 280 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0 | 128 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) | MAX. FACTORED UNBRACED LENGTH (FT) | WEBS  | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS1 (LC) |
|--------|----------|---------------------------|---------------------------|------------------------|------------------------------------|-------|----------|---------------------------|------------------------|
| FR-TO  |          |                           |                           |                        |                                    | FR-TO |          |                           |                        |
| A-B    | 0 / 41   | -91.8                     | -91.8                     | 0.13 (1)               | 10.00                              | G-C   | -97 / 57 | 0.02 (4)                  |                        |
| B-C    | -284 / 0 | -91.8                     | -91.8                     | 0.20 (1)               | 6.25                               | B-G   | 0 / 213  | 0.05 (1)                  |                        |
| C-D    | -284 / 0 | -91.8                     | -91.8                     | 0.20 (1)               | 6.25                               | G-D   | 0 / 213  | 0.05 (1)                  |                        |
| D-E    | 0 / 41   | -91.8                     | -91.8                     | 0.13 (1)               | 10.00                              |       |          |                           |                        |
| H-B    | -548 / 0 | 0.0                       | 0.0                       | 0.06 (1)               | 7.81                               |       |          |                           |                        |
| F-D    | -548 / 0 | 0.0                       | 0.0                       | 0.06 (1)               | 7.81                               |       |          |                           |                        |
| H-G    | 0 / 0    | -18.5                     | -18.5                     | 0.08 (4)               | 10.00                              |       |          |                           |                        |
| G-F    | 0 / 0    | -18.5                     | -18.5                     | 0.08 (4)               | 10.00                              |       |          |                           |                        |

TOTAL WEIGHT = 38 lb (M)

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |      |      |     |
|------------|------|------|-----|
| TOP CH.    | LL = | 25.6 | PSF |
|            | DL = | 6.0  | PSF |
| BOT CH.    | LL = | 0.0  | PSF |
|            | DL = | 7.4  | PSF |
| TOTAL LOAD | =    | 39.0 | PSF |

SPACING = 24.0 IN. O.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 CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 089-09, CSA 089-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.27")  
CALCULATED VERT. DEFL.(LL) = 1/989 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.27")  
CALCULATED VERT. DEFL.(TL) = 1/989 (0.01")

CS1: TC=0.20/1.00 (B-C:1), BC=0.09/1.00 (F-G:4), WB=0.05/1.00 (D-G:1), SS=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

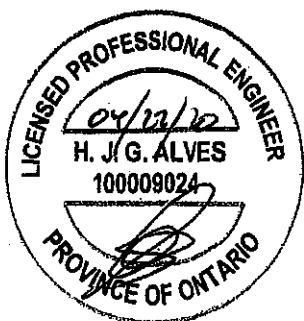
##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI)                | SECTION (PL) |
|-----------------|----------------------------|--------------|
| MT20            | 618 354 1867 788 1867 1868 |              |

PLATE PLACEMENT TOL. = 0.250 inches

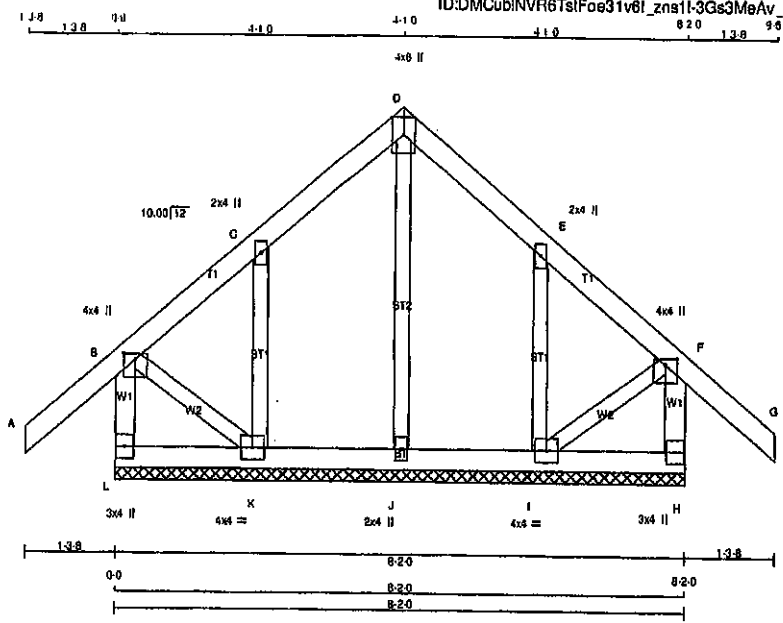
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (O) (INPUT = 0.90)  
JSI METAL= 0.12 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2007139

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408168              | TRUSS NAME<br>G10 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                               |          |



| LUMBER                          |      |     |        |
|---------------------------------|------|-----|--------|
| N. L. G. A. RULES               |      |     |        |
| CHORDS                          | SIZE | DRY | LUMBER |
| L - B                           | 2x4  | DRY | No.2   |
| A - D                           | 2x4  | DRY | No.2   |
| D - G                           | 2x4  | DRY | No.2   |
| H - F                           | 2x4  | DRY | No.2   |
| L - H                           | 2x4  | DRY | No.2   |
| ALL WEBS                        | 2x3  | DRY | No.2   |
| ALL GABLE WEBS                  | 2x3  | DRY | No.2   |
| DRY: SEASONED LUMBER.           |      |     |        |
| GABLE STUDS SPACED AT 2'-0" OC. |      |     |        |

| PLATE (table in inches) |         |      |     |     |           |
|-------------------------|---------|------|-----|-----|-----------|
| JT TYPE                 | PLATES  | W    | LEN | Y   | X         |
| B                       | TMVW+p  | MT20 | 4.0 | 4.0 | 1.00 2.00 |
| C                       | TMVW+w  | MT20 | 2.0 | 4.0 |           |
| D                       | TTW+p   | MT20 | 4.0 | 6.0 | Edge      |
| E                       | TMVW+w  | MT20 | 2.0 | 4.0 |           |
| F                       | TMVW+p  | MT20 | 4.0 | 4.0 | 1.00 2.00 |
| H                       | BMV1+p  | MT20 | 3.0 | 4.0 |           |
| I                       | BMVW1-i | MT20 | 4.0 | 4.0 |           |
| J                       | BMV1+w  | MT20 | 2.0 | 4.0 |           |
| K                       | BMVW1-i | MT20 | 4.0 | 4.0 |           |
| L                       | BMV1+p  | MT20 | 3.0 | 4.0 |           |

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

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                           |                  |          |                        |                      |       |                           |                        |  |
|-----------------------------------------------------------------------------------------------|---------------------------|------------------|----------|------------------------|----------------------|-------|---------------------------|------------------------|--|
| BEARINGS                                                                                      |                           |                  |          |                        |                      |       |                           |                        |  |
| THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.                                                  |                           |                  |          |                        |                      |       |                           |                        |  |
| THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.                                          |                           |                  |          |                        |                      |       |                           |                        |  |
| BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)                                         |                           |                  |          |                        |                      |       |                           |                        |  |
| BRACING                                                                                       |                           |                  |          |                        |                      |       |                           |                        |  |
| TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.                                    |                           |                  |          |                        |                      |       |                           |                        |  |
| MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.               |                           |                  |          |                        |                      |       |                           |                        |  |
| ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.                    |                           |                  |          |                        |                      |       |                           |                        |  |
| LOADING                                                                                       |                           |                  |          |                        |                      |       |                           |                        |  |
| TOTAL LOAD CASES: (4)                                                                         |                           |                  |          |                        |                      |       |                           |                        |  |
| CHORDS                                                                                        |                           |                  |          |                        |                      |       |                           |                        |  |
| MEMB.                                                                                         | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LOAD LC1 | MAX. FACTORED CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| L-B                                                                                           | -224 / 0                  | 0.0              | 0.0      | 0.02 (1)               | 7.81                 | J-D   | -126 / 0                  | 0.05 (1)               |  |
| A-B                                                                                           | 0 / 41                    | -91.8            | -91.8    | 0.13 (1)               | 10.00                | K-C   | -227 / 0                  | 0.04 (1)               |  |
| B-C                                                                                           | -11 / 0                   | -91.8            | -91.8    | 0.08 (1)               | 8.25                 | I-E   | -227 / 0                  | 0.04 (1)               |  |
| C-D                                                                                           | -31 / 0                   | -91.8            | -91.8    | 0.08 (1)               | 6.25                 | B-K   | 0 / 24                    | 0.01 (1)               |  |
| D-E                                                                                           | -31 / 0                   | -91.8            | -91.8    | 0.08 (1)               | 6.25                 | I-F   | 0 / 24                    | 0.01 (1)               |  |
| E-F                                                                                           | -11 / 0                   | -91.8            | -91.8    | 0.08 (1)               | 6.25                 |       |                           |                        |  |
| F-G                                                                                           | 0 / 41                    | -91.8            | -91.8    | 0.13 (1)               | 10.00                |       |                           |                        |  |
| H-F                                                                                           | -224 / 0                  | 0.0              | 0.0      | 0.02 (1)               | 7.81                 |       |                           |                        |  |
| L-K                                                                                           | 0 / 0                     | -18.5            | -18.5    | 0.02 (4)               | 10.00                |       |                           |                        |  |
| K-J                                                                                           | 0 / 13                    | -18.5            | -18.5    | 0.02 (4)               | 10.00                |       |                           |                        |  |
| J-I                                                                                           | 0 / 13                    | -18.5            | -18.5    | 0.02 (4)               | 10.00                |       |                           |                        |  |
| I-H                                                                                           | 0 / 0                     | -18.5            | -18.5    | 0.02 (4)               | 10.00                |       |                           |                        |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 25.8 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.4 PSF  
 TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN. OC**

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2018, CBC 2012, ABC 2010  
 - PART 8 OF CBC 2012 (2018 AMENDMENT)  
 - CSA 086-09, CSA 086-14  
 - TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.13/1.00 (A-B:1), BC=0.02/1.00 (J-K:4), WB=0.05/1.00 (D-J:1), SE=0.08/1.00 (A-B: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

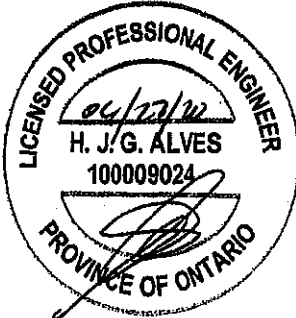
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1687 788 1587 1658

PLATE PLACEMENT TOL. = 0.250 inches

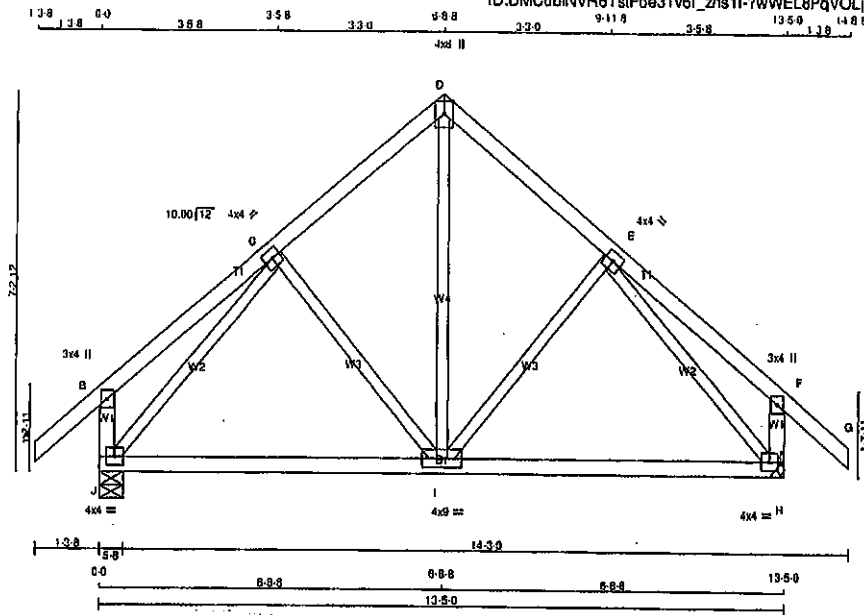
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.17 (C) (INPUT = 0.90)  
 JSI METAL = 0.12 (C) (INPUT = 1.00)



Structural component only  
 DWG# T-2007124

|                                                                                    |            |          |     |                  |          |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                                                                             | T11        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                    |            |          |     |                  |          |
| Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:35:00 2020 Page 1 |            |          |     |                  |          |
| ID:DMCubINVR6TsIFoe31v6l_zns1l-7wWEL8PqVOLJKPqa_WWMJhoZlq8hYBarh8IZ4izNB89         |            |          |     |                  |          |
| Scale = 1:40.5                                                                     |            |          |     |                  |          |



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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER

| PLATES (table in inches) | W   | LEN | Y | X    |
|--------------------------|-----|-----|---|------|
| JT TYPE PLATES           |     |     |   |      |
| B TMV+p MT20             | 3.0 | 4.0 |   |      |
| C TMVW+ MT20             | 4.0 | 4.0 |   |      |
| D ITW+p MT20             | 4.0 | 8.0 |   | Edge |
| E TMVW+ MT20             | 4.0 | 4.0 |   |      |
| F TMV+p MT20             | 3.0 | 4.0 |   |      |
| G BMVW+ MT20             | 4.0 | 4.0 |   |      |
| I BMVW+ MT20             | 4.0 | 9.0 |   |      |
| J BMVW+ MT20             | 4.0 | 4.0 |   |      |

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

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

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

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

#### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN  | COMPONENT REACTIONS                     |
|----------|----------|-----------------------------------------|
| JT       | COMBINED | SNOW LIVE PERM LIVE WIND DEAD SOIL      |
| J        | 611      | 414 / 0 0 / 0 0 / 0 0 / 0 199 / 0 0 / 0 |
| H        | 611      | 414 / 0 0 / 0 0 / 0 0 / 0 199 / 0 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED         | MAX      | MAX    | WEBS  | MAX. FACTORED | MAX      |
|--------|---------------|------------------|----------|--------|-------|---------------|----------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF) | LC1 MAX  | UNBRAC | MEMB. | FORCE (LBS)   | MAX (LC) |
| FR-TO  |               | FROM TO          |          | LENGTH | FR-TO |               |          |
| A-B    | 0 / 41        | -91.8 -91.8      | 0.13 (1) | 10.00  | I-D   | 0 / 382       | 0.09 (1) |
| B-C    | 0 / 23        | -91.8 -91.8      | 0.16 (1) | 10.00  | I-E   | -149 / 0      | 0.07 (1) |
| C-D    | -509 / 0      | -91.8 -91.8      | 0.13 (1) | 6.25   | C-I   | -149 / 0      | 0.07 (1) |
| D-E    | -509 / 0      | -91.8 -91.8      | 0.13 (1) | 8.25   | J-C   | -742 / 0      | 0.33 (1) |
| E-F    | 0 / 23        | -91.8 -91.8      | 0.16 (1) | 10.00  | E-H   | -742 / 0      | 0.33 (1) |
| F-G    | 0 / 41        | -91.8 -91.8      | 0.13 (1) | 10.00  |       |               |          |
| J-B    | -244 / 0      | 0.0 0.0          | 0.03 (1) | 7.81   |       |               |          |
| H-F    | -244 / 0      | 0.0 0.0          | 0.03 (1) | 7.81   |       |               |          |
| J-I    | 0 / 469       | -18.5 -18.5      | 0.27 (4) | 10.00  |       |               |          |
| I-H    | 0 / 469       | -18.5 -18.5      | 0.27 (4) | 10.00  |       |               |          |

TOTAL WEIGHT = 3 X 64 = 191 lb (M/F)

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 38.0 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 NBC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.45")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.45")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.18/1.00 (E-F:1), BC=0.27/1.00 (I-J:4), WB=0.33/1.00 (E-H:1), SS=0.11/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

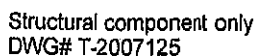
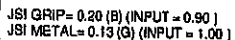
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (E) (INPUT = 0.90)  
JSI METAL = 0.27 (E) (INPUT = 1.00)

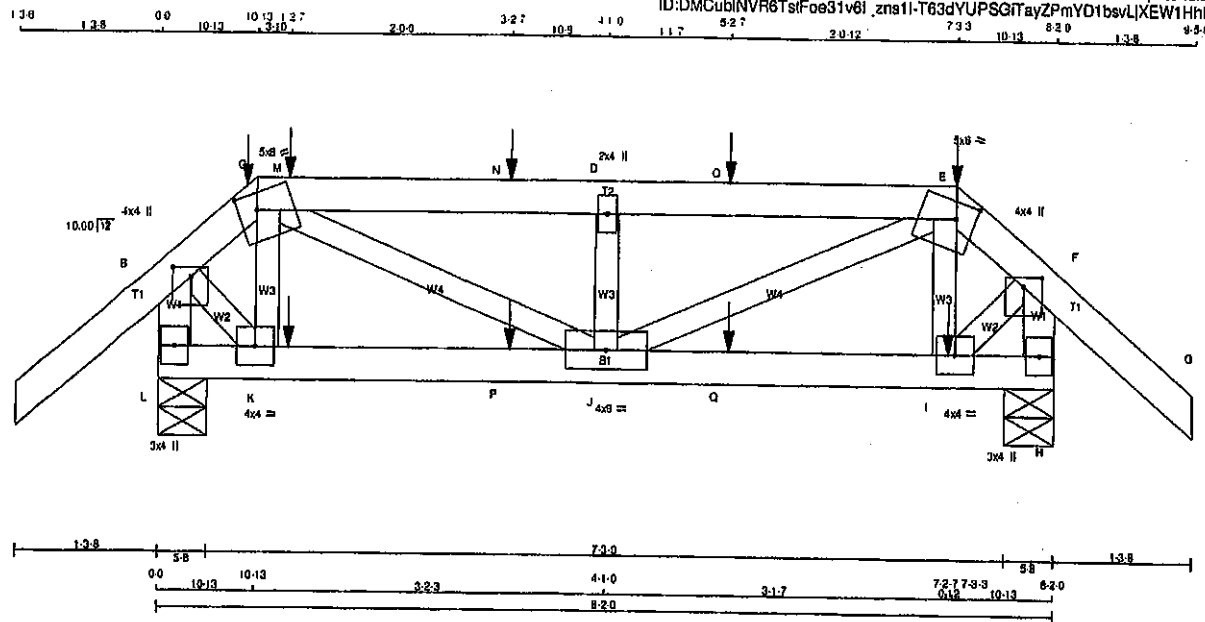


Structural component only  
DWG# T-2007140

Scale = 1:40.5

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408168</b>       | TRUSS NAME<br><b>T12</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | TRUSS DESC.          |                 |                                      |          |

Version 8.310 5 Oct 29 2019 MTek Industries, Inc. Sat Apr 25 12:35:01 2020 Page 1  
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| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - C             | 2x4    | DRY  | No.2   |
| C - E             | 2x4    | DRY  | No.2   |
| E - G             | 2x4    | DRY  | No.2   |
| L - B             | 2x4    | DRY  | No.2   |
| H - F             | 2x4    | DRY  | No.2   |
| L - H             | 2x4    | DRY  | No.2   |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

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 |
| C                        | TTWW-m | MT20 | 5.0 | 8.0 1.75 2.00 |
| D                        | TMVW-w | MT20 | 2.0 | 4.0           |
| E                        | TTWW-m | MT20 | 5.0 | 8.0 1.75 2.00 |
| F                        | TMVW+p | MT20 | 4.0 | 4.0 1.00 2.00 |
| H                        | BMV1+p | MT20 | 3.0 | 4.0           |
| I                        | BMVW-w | MT20 | 4.0 | 4.0           |
| J                        | BMVW-w | MT20 | 4.0 | 4.0           |
| K                        | BMVW-w | MT20 | 4.0 | 4.0           |
| L                        | 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 | IN-SX | BRG | IN-SX | BRG |
| L        | 913  | 0        | 913  | 0                | 0      | 5-8   | 5-8 | 5-8   | 5-8 |
| H        | 911  | 0        | 911  | 0                | 0      | 5-8   | 5-8 | 5-8   | 5-8 |

| UNFACTORED REACTIONS |          | 1ST CASE |      | MAX/MIN COMPONENT REACTIONS |      |
|----------------------|----------|----------|------|-----------------------------|------|
| JT                   | COMBINED | SNOW     | LIVE | PERM.LIVE                   | WIND |
| L                    | 642      | 442/0    | 0/0  | 0/0                         | 0/0  |
| H                    | 641      | 437/0    | 0/0  | 0/0                         | 0/0  |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.82 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

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

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| A-B    | 0/41                      | J-D   | -487/0                    |
| B-C    | -631/0                    | K-Q   | -168/0                    |
| C-M    | -1054/0                   | C-J   | 0/760                     |
| M-N    | -1054/0                   | B-K   | 0/525                     |
| N-D    | -1054/0                   | I-E   | -149/0                    |
| D-O    | -1054/0                   | J-E   | 0/698                     |
| O-E    | -1054/0                   | I-F   | 0/626                     |
| E-F    | -832/0                    |       |                           |
| F-G    | 0/41                      |       |                           |
| L-B    | -836/0                    |       |                           |
| H-F    | -937/0                    |       |                           |
| L-K    | 0/0                       |       |                           |
| K-P    | 0/420                     |       |                           |
| P-J    | 0/420                     |       |                           |
| J-Q    | 0/421                     |       |                           |
| Q-I    | 0/421                     |       |                           |
| I-H    | 0/0                       |       |                           |

| FACTORED CONCENTRATED LOADS (LBS) |       | FACE |      | DIR. |      | TYPE  |      | HEEL  |      | CONN. |      |
|-----------------------------------|-------|------|------|------|------|-------|------|-------|------|-------|------|
| JT                                | LOC.  | LC1  | MAX. | MAX. | MAX. | MAX.  | MAX. | MAX.  | MAX. | MAX.  | MAX. |
| C                                 | 10-13 | -9   | -10  | -10  | ---  | FRONT | VERT | DEAD  | ---  | C1    | ---  |
| C                                 | 1-2-7 | -114 | -114 | -114 | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |
| C                                 | 10-13 | -44  | -44  | -44  | ---  | FRONT | VERT | SNOW  | ---  | C1    | ---  |
| E                                 | 7-3-3 | -9   | -10  | -10  | ---  | FRONT | VERT | DEAD  | ---  | C1    | ---  |
| E                                 | 7-3-3 | -90  | -90  | -90  | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |
| E                                 | 7-3-3 | -44  | -44  | -44  | ---  | FRONT | VERT | SNOW  | ---  | C1    | ---  |
| I                                 | 7-2-7 | -49  | -49  | -49  | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |
| K                                 | 1-2-7 | -49  | -49  | -49  | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |
| N                                 | 3-2-7 | -82  | -82  | -82  | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |
| O                                 | 5-2-7 | -82  | -82  | -82  | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |
| P                                 | 3-2-7 | -49  | -49  | -49  | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |
| Q                                 | 5-2-7 | -49  | -49  | -49  | ---  | BACK  | VERT | TOTAL | ---  | C1    | ---  |

## CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 34 lb (M)

## DESIGN CRITERIA

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

## SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.27")  
CALCULATED VERT. DEFL.(LL) = 1/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/380 (0.27")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.03")

CSI: TC=0.23/1.00 (C-D:1), BC=0.14/1.00 (I-J:1), WB=0.17/1.00 (C-J:1), SI=0.22/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LBS 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) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 769 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2

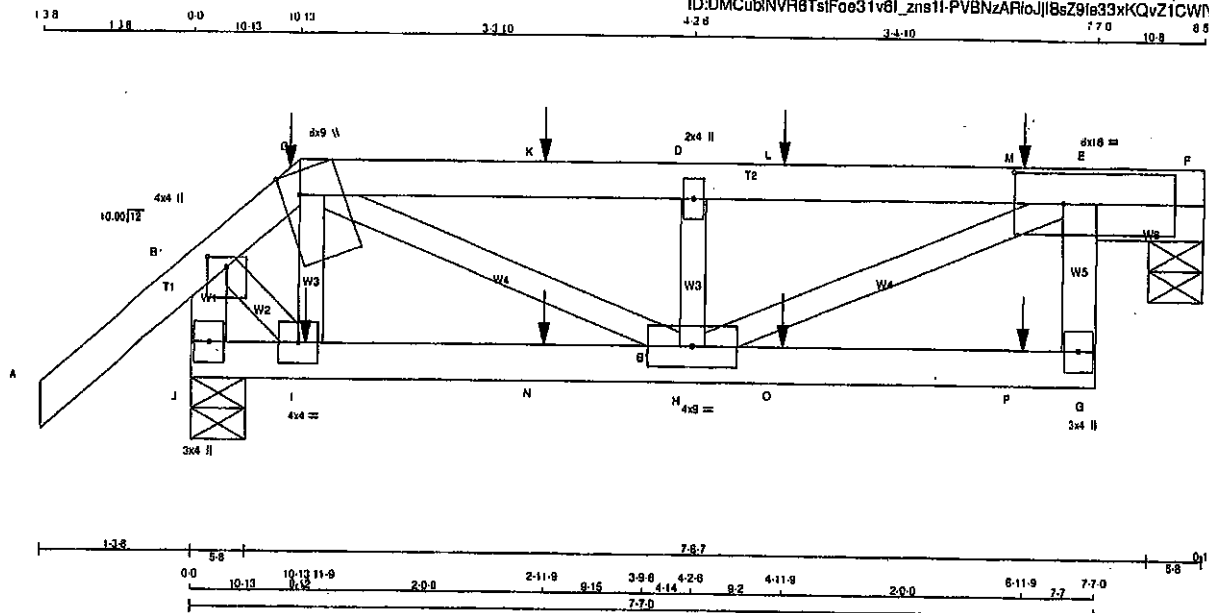


Structural component only  
DWG# T-2007141

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                          | T13        | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:DMCubINVR8TsiFoe31v8I\_zns11-PVBNzARioJlI8Z9la33xKQvZ1CWYJHN5XDq4zNBR6

Scale = 1:17.3



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

| PLATES (table is in inches) | W    | LEN | Y    | X         |
|-----------------------------|------|-----|------|-----------|
| JT TYPE                     |      |     |      |           |
| B TMVW+p                    | MT20 | 4.0 | 4.0  | 1.00 2.00 |
| C TTWW+m                    | MT20 | 6.0 | 9.0  | Edge 1.75 |
| D TMW+w                     | MT20 | 2.0 | 4.0  |           |
| E TMVWW-l                   | MT20 | 6.0 | 16.0 | 3.00 5.00 |
| G BMV+p                     | MT20 | 3.0 | 4.0  |           |
| H BMVWW-l                   | MT20 | 4.0 | 9.0  |           |
| I BMW+l                     | MT20 | 4.0 | 4.0  |           |
| J BMV1+p                    | MT20 | 3.0 | 4.0  |           |

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

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|----------------|------------------|-------|------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT       | VERT           | HORZ             | DOWN  | HORZ |
| F        | 895            | 0                | 895   | 0    |
| J        | 936            | 0                | 936   | 0    |

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

| UNFACTORED REACTIONS | 1ST LOSE | MAX/MIN | COMPONENT REACTIONS |
|----------------------|----------|---------|---------------------|
| JT                   | COMBINED | SNOW    | LIVE                |
| F                    | 490      | 327/0   | 0/0                 |
| J                    | 859      | 449/0   | 0/0                 |

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

BRACING: TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

# LOADING

TOTAL LOAD CASES: (4)

| CHORDS  |                           |                           |       |              | WEBS        |       |                           |              |       |  |  |  |
|---------|---------------------------|---------------------------|-------|--------------|-------------|-------|---------------------------|--------------|-------|--|--|--|
| MEMB.   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1   | MAX CSI (LC) | MAX. UNBRAC | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |       |  |  |  |
| FROM TO |                           |                           |       |              | LENGTH      |       |                           |              | FR-TO |  |  |  |
| A-B     | 0/41                      | -91.8                     | -91.8 | 0.14 (1)     | 10.00       | I-C   | -158/0                    | 0.03 (1)     |       |  |  |  |
| B-C     | -858/0                    | -91.8                     | -91.8 | 0.14 (1)     | 10.00       | B-I   | 0/548                     | 0.14 (1)     |       |  |  |  |
| C-K     | -1230/0                   | -91.8                     | -91.8 | 0.46 (1)     | 5.09        | H-D   | -767/0                    | 0.12 (1)     |       |  |  |  |
| K-O     | -1230/0                   | -91.8                     | -91.8 | 0.46 (1)     | 5.09        | C-H   | 0/687                     | 0.21 (1)     |       |  |  |  |
| D-L     | -1230/0                   | -91.8                     | -91.8 | 0.89 (1)     | 3.58        | H-E   | 0/1345                    | 0.33 (1)     |       |  |  |  |
| L-M     | -1230/0                   | -91.8                     | -91.8 | 0.89 (1)     | 3.58        |       |                           |              |       |  |  |  |
| M-E     | -1230/0                   | -91.8                     | -91.8 | 0.89 (1)     | 3.58        |       |                           |              |       |  |  |  |
| E-F     | 0/0                       | -91.8                     | -91.8 | 0.35 (1)     | 10.00       |       |                           |              |       |  |  |  |
| G-E     | 0/83                      | 0.0                       | 0.0   | 0.02 (4)     | 10.00       |       |                           |              |       |  |  |  |
| J-B     | -966/0                    | 0.0                       | 0.0   | 0.11 (1)     | 7.81        |       |                           |              |       |  |  |  |
|         |                           |                           |       |              |             |       |                           |              |       |  |  |  |
| J-I     | 0/0                       | -18.5                     | -18.5 | 0.06 (1)     | 10.00       |       |                           |              |       |  |  |  |
| I-N     | 0/438                     | -18.5                     | -18.5 | 0.14 (1)     | 10.00       |       |                           |              |       |  |  |  |
| N-H     | 0/438                     | -18.5                     | -18.5 | 0.14 (1)     | 10.00       |       |                           |              |       |  |  |  |
| H-O     | 0/0                       | -18.5                     | -18.5 | 0.08 (1)     | 10.00       |       |                           |              |       |  |  |  |
| O-P     | 0/0                       | -18.5                     | -18.5 | 0.09 (1)     | 10.00       |       |                           |              |       |  |  |  |
| P-G     | 0/0                       | -18.5                     | -18.5 | 0.09 (1)     | 10.00       |       |                           |              |       |  |  |  |

| FACTORED CONCENTRATED LOADS (LBS) | LOC.   | LC1 | MAX | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|-----------------------------------|--------|-----|-----|------|-------|------|-------|------|-------|
| JT                                |        |     |     |      |       |      |       |      |       |
| C                                 | 10-13  | -9  | -10 | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| C                                 | 10-13  | -90 | -90 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| C                                 | 10-13  | -44 | -44 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| I                                 | 11-9   | -49 | -49 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K                                 | 2-11-9 | -82 | -82 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L                                 | 4-11-9 | -82 | -82 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| M                                 | 6-11-9 | -82 | -82 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N                                 | 2-11-9 | -49 | -49 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O                                 | 4-11-9 | -49 | -49 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P                                 | 6-11-9 | -53 | -53 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

# CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 32.6 [M]

# DESIGN CRITERIA

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

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.26")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.07")  
ALLOWABLE DEFL. (TL) = L/360 (0.26")  
CALCULATED VERT. DEFL. (TL) = L/688 (0.13")

CS: TC=0.89/1.00 (D-E:1), BC=0.14/1.00 (H-I:1), WB=0.33/1.00 (E-H:1), SSI=0.42/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1937 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (C) (INPUT = 0.90)

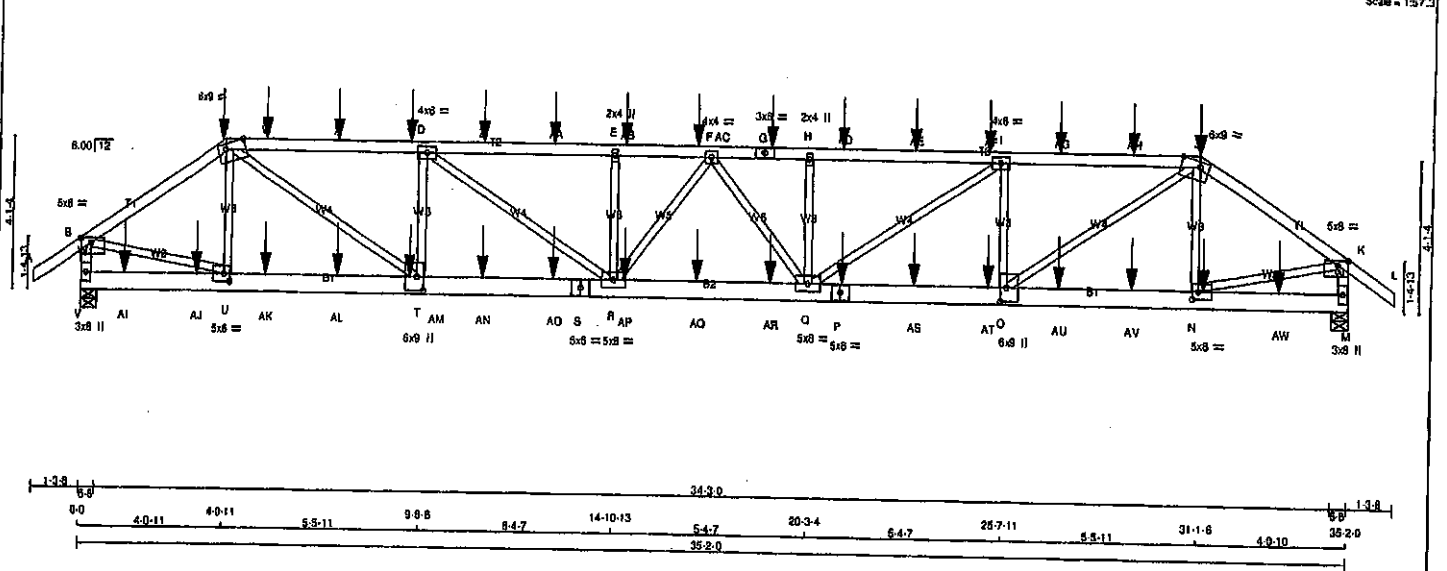
JSI METAL= 0.30 (H) (INPUT = 1.00)



Structural component only  
DWG# T-2007142

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169                          | T20        | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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 ID:K7TPdhgJ0np1qYdbWIOFzdeG-i0(gasn1sB7\_BuchzQzKub4B8zN\_xr0MZbH0gzNBDf  
 13.8 0.0 4.0 11 4.0 11 3.5 11 9.5 6 3.7 14.10 13 2.8 17.7 2.8 4 20.3 4 25.7 11 5.5 11 31.1 6 35.2 0 35.2 0  
 Scale = 1:37.5



|                                                                                  |              |        |                                                                                                     |  |  |
|----------------------------------------------------------------------------------|--------------|--------|-----------------------------------------------------------------------------------------------------|--|--|
| <b>LUMBER</b>                                                                    |              |        | <b>DESIGN CRITERIA</b>                                                                              |  |  |
| N. L. G. A. RULES                                                                |              |        | *** SPECIAL LOADS ANALYSIS ***                                                                      |  |  |
| CHORDS SIZE                                                                      | LUMBER       | DESCR. | GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.                                                        |  |  |
| A - C                                                                            | 2x4 DRY No.2 | SPF    | LOADS WERE DERIVED FROM USER INPUT                                                                  |  |  |
| C - G                                                                            | 2x4 DRY No.2 | SPF    | NO FURTHER MODIFICATIONS WERE MADE                                                                  |  |  |
| G - J                                                                            | 2x4 DRY No.2 | SPF    |                                                                                                     |  |  |
| J - L                                                                            | 2x4 DRY No.2 | SPF    |                                                                                                     |  |  |
| L - B                                                                            | 2x4 DRY No.2 | SPF    |                                                                                                     |  |  |
| M - K                                                                            | 2x4 DRY No.2 | SPF    |                                                                                                     |  |  |
| V - S                                                                            | 2x6 DRY No.2 | SPF    |                                                                                                     |  |  |
| S - P                                                                            | 2x6 DRY No.2 | SPF    |                                                                                                     |  |  |
| P - M                                                                            | 2x6 DRY No.2 | SPF    |                                                                                                     |  |  |
| ALL WEBS                                                                         | 2x3 DRY No.2 | SPF    |                                                                                                     |  |  |
| EXCEPT                                                                           |              |        |                                                                                                     |  |  |
| DRY, SEASONED LUMBER.                                                            |              |        | SPECIFIED LOADS:                                                                                    |  |  |
| DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: |              |        | TOP CH. LL = 25.6 PSF                                                                               |  |  |
|                                                                                  |              |        | DL = 6.0 PSF                                                                                        |  |  |
|                                                                                  |              |        | BOT CH. LL = 0.0 PSF                                                                                |  |  |
|                                                                                  |              |        | DL = 7.4 PSF                                                                                        |  |  |
|                                                                                  |              |        | TOTAL LOAD = 39.0 PSF                                                                               |  |  |
|                                                                                  |              |        | SPACING = 24.0 IN. C/C                                                                              |  |  |
|                                                                                  |              |        | LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12                                                 |  |  |
|                                                                                  |              |        | *** NON STANDARD GIRDER ***                                                                         |  |  |
|                                                                                  |              |        | ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.                                                 |  |  |
|                                                                                  |              |        | THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 8, NBC 2010, NBC 2015 |  |  |
|                                                                                  |              |        | THIS DESIGN COMPLIES WITH:                                                                          |  |  |
|                                                                                  |              |        | - PART 8 OF CBC 2010, CBC 2012, ABC 2019                                                            |  |  |
|                                                                                  |              |        | - PART 8 OF CBC 2012 (2019 AMENDMENT)                                                               |  |  |
|                                                                                  |              |        | - CSA 086-09, CSA 086-14                                                                            |  |  |
|                                                                                  |              |        | - TPIC 2011, TPIC 2014                                                                              |  |  |
|                                                                                  |              |        | [55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD] EQUALS 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD  |  |  |
|                                                                                  |              |        | ALLOWABLE DEFL.(LL) = L/360 (1.17")                                                                 |  |  |
|                                                                                  |              |        | CALCULATED VERT. DEFL.(LL) = L/999 (0.23")                                                          |  |  |
|                                                                                  |              |        | ALLOWABLE DEFL.(TL) = L/360 (1.17")                                                                 |  |  |
|                                                                                  |              |        | CALCULATED VERT. DEFL.(TL) = L/994 (0.44")                                                          |  |  |
|                                                                                  |              |        | CSI: TC=0.71(1.00) (D-E:1), BC=0.68(1.00) (Q-R:1), WB=0.44(1.00) (C-T:1), SS=0.23(1.00) (C-D:1)     |  |  |
|                                                                                  |              |        | DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00                                                              |  |  |
|                                                                                  |              |        | COMP=1.00 SHEAR=1.00 TENS=1.00                                                                      |  |  |
|                                                                                  |              |        | COMPANION LIVE LOAD FACTOR = 1.00                                                                   |  |  |
|                                                                                  |              |        | TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.   |  |  |
|                                                                                  |              |        | NAIL VALUES                                                                                         |  |  |
|                                                                                  |              |        | PLATE GRIP(DRY) SHEAR SECTION                                                                       |  |  |
|                                                                                  |              |        | (PSI) (PLI) (PLI)                                                                                   |  |  |
|                                                                                  |              |        | MAX MIN MAX MIN MAX MIN                                                                             |  |  |
|                                                                                  |              |        | MT20 818 354 1667 788 1987 1656                                                                     |  |  |
|                                                                                  |              |        | PLATE PLACEMENT TOL. = 0.250 inches                                                                 |  |  |
|                                                                                  |              |        | PLATE ROTATION TOL. = 5.0 Deg.                                                                      |  |  |
|                                                                                  |              |        | JSI GRIP=0.71 (G) (INPUT = 0.80)                                                                    |  |  |
|                                                                                  |              |        | JSI METAL=0.59 (S) (INPUT = 1.00)                                                                   |  |  |



Structural component only  
 DWG# T-2007145 1/2

|                                 |            |                                                                                    |     |                  |          |
|---------------------------------|------------|------------------------------------------------------------------------------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY                                                                           | PLY | JOB DESC.        | DRWG NO. |
| 408169                          | T20        | 1                                                                                  | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:49:24 2020 Page 2 |     |                  |          |
|                                 |            | IDK?TPdng0npl1q1YcbWIOFzdeG-iBltgasn1sB7 Budbz0zKub4B6zN xr0MZbHOgzNBDI            |     |                  |          |
|                                 |            | TRUSS DESC.                                                                        |     |                  |          |

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y         | X    |
|----|--------|--------|-----|-----|-----------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | 1.50      | 3.50 |
| C  | TTWW-m | MT20   | 8.0 | 9.0 | Edge 6.25 |      |
| D  | TMWW-i | MT20   | 4.0 | 8.0 |           |      |
| E  | TMVW-w | MT20   | 2.0 | 4.0 |           |      |
| F  | TMWW-i | MT20   | 4.0 | 4.0 |           |      |
| G  | TS-i   | MT20   | 3.0 | 8.0 |           |      |
| H  | TMVW-w | MT20   | 2.0 | 4.0 |           |      |
| I  | TMWW-i | MT20   | 4.0 | 8.0 |           |      |
| J  | TTWW-m | MT20   | 8.0 | 9.0 | Edge 6.25 |      |
| K  | TMVW-p | MT20   | 5.0 | 8.0 | 1.50      | 3.50 |
| M  | BMVt-p | MT20   | 3.0 | 8.0 |           |      |
| N  | BMWW-i | MT20   | 5.0 | 8.0 | 2.50      | 2.00 |
| O  | BMWW-i | MT20   | 8.0 | 9.0 | 4.50      | 2.00 |
| P  | BS-i   | MT20   | 5.0 | 8.0 |           |      |
| Q  | BMWW-i | MT20   | 5.0 | 8.0 |           |      |
| R  | BMWW-i | MT20   | 5.0 | 8.0 |           |      |
| S  | BS-i   | MT20   | 5.0 | 8.0 |           |      |
| T  | BMWW-i | MT20   | 8.0 | 9.0 | 4.50      | 2.00 |
| U  | BMWW-i | MT20   | 5.0 | 8.0 | 2.50      | 2.00 |
| V  | BMVt-p | MT20   | 3.0 | 8.0 |           |      |

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             |                  |         | WEBS         |       |             |               |
|--------|-------------|------------------|---------|--------------|-------|-------------|---------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (LBS) | LC1 MAX | MAX. UNBRAC  | MEMB. | FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |             | FROM TO          |         | LENGTH FR-TO |       |             |               |
| AS-AT  | 0 / 8217    | -18.5            | -18.5   | 0.48 (1)     | 10.00 |             |               |
| AT-O   | 0 / 6217    | -18.5            | -18.5   | 0.48 (1)     | 10.00 |             |               |
| O-AU   | 0 / 3328    | -18.5            | -18.5   | 0.28 (1)     | 10.00 |             |               |
| AU-AV  | 0 / 3328    | -18.5            | -18.5   | 0.28 (1)     | 10.00 |             |               |
| AV-N   | 0 / 3328    | -18.5            | -18.5   | 0.28 (1)     | 10.00 |             |               |
| N-AW   | 0 / 0       | -18.5            | -18.5   | 0.04 (4)     | 10.00 |             |               |
| AW-M   | 0 / 0       | -18.5            | -18.5   | 0.04 (4)     | 10.00 |             |               |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| C  | 4-0-11  | -49  | -55  | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| C  | 4-0-11  | -254 | -254 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| G  | 19-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| J  | 31-1-6  | -49  | -55  | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| J  | 31-1-6  | -117 | -117 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| J  | 31-1-6  | -254 | -254 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| N  | 31-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| P  | 21-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| W  | 5-2-12  | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| X  | 7-2-12  | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| Y  | 9-2-12  | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| Z  | 11-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AA | 13-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AB | 15-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AC | 17-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AD | 21-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AE | 23-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AF | 25-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AG | 27-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AH | 29-2-12 | -110 | -110 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AI | 1-2-12  | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AJ | 3-2-12  | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AK | 5-2-12  | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AL | 7-2-12  | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AM | 9-2-12  | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AN | 11-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AO | 13-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AP | 15-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AQ | 17-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AR | 19-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AS | 23-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AT | 25-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AU | 27-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AV | 29-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AW | 33-2-12 | -28  | -26  | ---  | BACK  | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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



Structural component only  
DWG# T-2007145



|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLV | JOB DESC.        | DRWG NO. |
| 408169                          | T20Z       | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

**PLATES (table in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-p  | MT20   | 5.0 | 8.0 | 1.50 | 3.50 |
| C  | TTWW-m  | MT20   | 7.0 | 8.0 | 1.75 | 2.50 |
| D  | TMWW-i  | MT20   | 4.0 | 6.0 |      |      |
| E  | TMW-w   | MT20   | 2.0 | 4.0 |      |      |
| F  | TMWW-i  | MT20   | 4.0 | 4.0 |      |      |
| G  | TS-i    | MT20   | 3.0 | 8.0 |      |      |
| H  | TMW-w   | MT20   | 2.0 | 4.0 |      |      |
| I  | TMWW-i  | MT20   | 4.0 | 6.0 |      |      |
| J  | TTWW-m  | MT20   | 7.0 | 8.0 | 1.75 | 2.50 |
| K  | TMVW-p  | MT20   | 5.0 | 8.0 | 1.50 | 3.50 |
| M  | BMV1-p  | MT20   | 3.0 | 6.0 |      |      |
| N  | BMWW-i  | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| O  | BMWW-i  | MT20   | 6.0 | 9.0 | 4.50 | 2.00 |
| P  | BS-i    | MT20   | 5.0 | 6.0 |      |      |
| Q  | BMWWW-i | MT20   | 5.0 | 8.0 |      |      |
| R  | BMWWW-i | MT20   | 5.0 | 8.0 |      |      |
| S  | BS-i    | MT20   | 5.0 | 6.0 |      |      |
| T  | BMWW-i  | MT20   | 6.0 | 9.0 | 4.50 | 2.00 |
| U  | BMWW-i  | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| V  | BMV1-p  | MT20   | 3.0 | 6.0 |      |      |

**CONNECTION REQUIREMENTS**

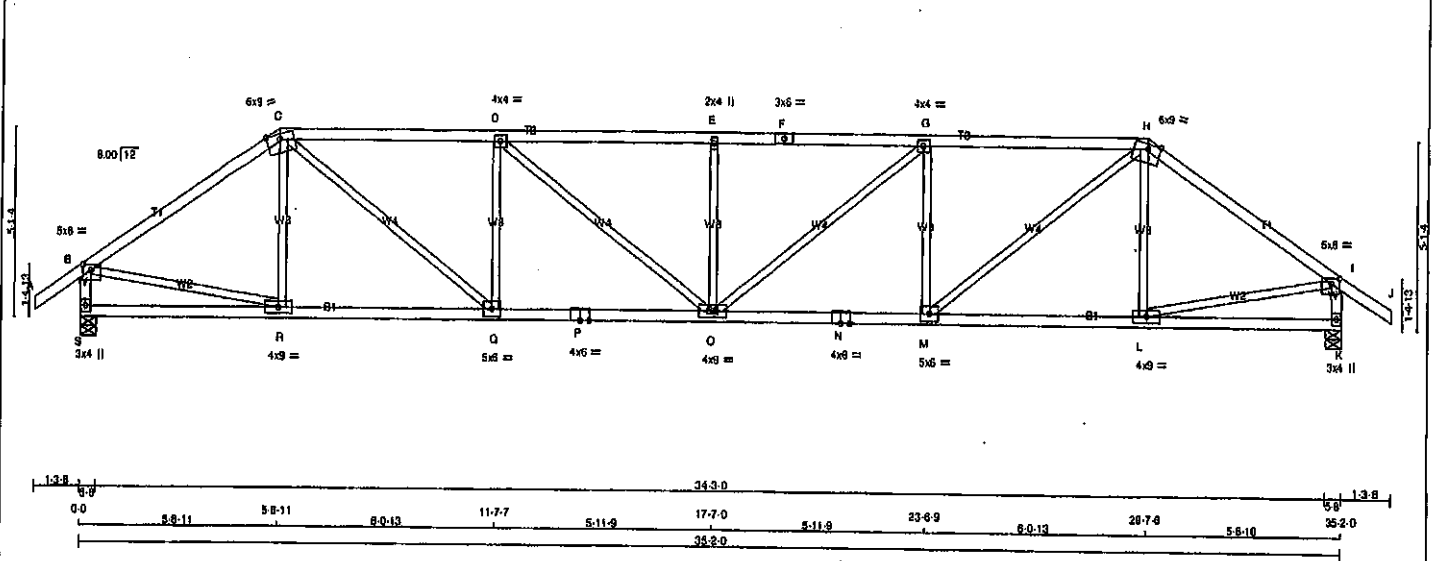
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

Version 8.310 S Oct 29 2019 Mitak Industries, Inc. Sat Apr 25 12:40:23 2020 Page 2  
ID:K?TPdhaQnpl1qYcbWIOFzIdeG-AKHFWmPo9K\_gKTP9gXCi67DKWF2Jk9bCKqW7zNBDe



Structural component only  
DWG# T-2007146 42

|                                                                           |                          |                      |                 |                                                                                    |          |
|---------------------------------------------------------------------------|--------------------------|----------------------|-----------------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>408169</b>                                                 | TRUSS NAME<br><b>T21</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b>                                               | DRWG NO. |
| Tamarack Roof Truss, Burlington                                           |                          |                      |                 | Version 8.310 © Oct 26 2019 Mitek Industries, Inc. Sat Apr 26 12:49:26 2020 Page 1 |          |
| ID:K?TPdhpj0npl1qYdbWIOFzIdaG-eWrd5G12ZTSrDU10jO2RFPJgONwdaSrJps4OSZzNBDD |                          |                      |                 | Scale = 1:57.0                                                                     |          |



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | DRY | LUMBER |
|--------|------|-----|--------|
| A - G  | 2x4  | DRY | No.2   |
| C - F  | 2x4  | DRY | No.2   |
| F - H  | 2x4  | DRY | No.2   |
| H - J  | 2x4  | DRY | No.2   |
| S - B  | 2x4  | DRY | No.2   |
| K - I  | 2x4  | DRY | No.2   |
| S - P  | 2x4  | DRY | No.2   |
| P - N  | 2x4  | DRY | No.2   |
| N - K  | 2x4  | DRY | No.2   |

ALL WEBS 2x3 DRY No.2

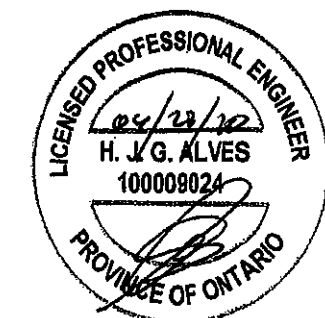
EXCEPT

DRY: SEASONED LUMBER.

**PLATES (Labels in inches)**

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  | TMVW-p   | MT20   | 5.0 | 8.0 | 1.75 | 2.75 |
| C  | TTWW-m   | MT20   | 6.0 | 9.0 | Edge |      |
| D  | TMVW-l   | MT20   | 4.0 | 4.0 |      |      |
| E  | TMVW-w   | MT20   | 2.0 | 4.0 |      |      |
| F  | TS-l     | MT20   | 3.0 | 6.0 |      |      |
| G  | TMVW-m   | MT20   | 4.0 | 4.0 |      |      |
| H  | TTWW-m   | MT20   | 6.0 | 9.0 | Edge |      |
| I  | TMVW-p   | MT20   | 5.0 | 8.0 | 1.75 | 2.75 |
| K  | BMV1-p   | MT20   | 3.0 | 4.0 |      |      |
| L  | BMVW-l   | MT20   | 4.0 | 9.0 |      |      |
| M  | BMVW-l   | MT20   | 5.0 | 9.0 |      |      |
| N  | BS-l     | MT20   | 4.0 | 6.0 |      |      |
| O  | BMVW-w-l | MT20   | 4.0 | 9.0 |      |      |
| P  | BS-l     | MT20   | 4.0 | 6.0 |      |      |
| Q  | BMVW-l   | MT20   | 6.0 | 8.0 |      |      |
| R  | BMVW-l   | MT20   | 4.0 | 9.0 |      |      |
| S  | BMV1-p   | MT20   | 3.0 | 4.0 |      |      |

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



Structural component only  
DWG# T-2007147

**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 | 2065           | 0                | 0     | 0    |
| S       | 2065           | 0                | 5-8   | 5-8  |
| K       | 2065           | 0                | 0     | 5-8  |

**UNFACTORED REACTIONS**

| JT | 1ST LOASE | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|---------|-------|-----------|-------|---------|-------|
| S  | 1455      | 970 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0 / 0 |
| K  | 1455      | 970 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 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 LG1 (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           | FROM TO                       |               | FR-TO |                           |               |          |
| A-B    | 0 / 35                    | -91.8 -91.8                   | 0.12 (1)      | 10.00 | R-C                       | -243 / 10     | 0.09 (1) |
| B-C    | -2297 / 0                 | -91.8 -91.8                   | 0.70 (1)      | 3.78  | C-Q                       | 0 / 1669      | 0.38 (1) |
| C-D    | -3213 / 0                 | -91.8 -91.8                   | 0.80 (1)      | 3.18  | D-O                       | -929 / 0      | 0.39 (1) |
| D-E    | -3594 / 0                 | -91.8 -91.8                   | 0.88 (1)      | 2.97  | O-Q                       | 0 / 489       | 0.11 (1) |
| E-F    | -3594 / 0                 | -91.8 -91.8                   | 0.88 (1)      | 2.97  | Q-E                       | -505 / 0      | 0.19 (1) |
| F-G    | -3594 / 0                 | -91.8 -91.8                   | 0.88 (1)      | 2.97  | G-Q                       | 0 / 490       | 0.11 (1) |
| G-H    | -3213 / 0                 | -91.8 -91.8                   | 0.80 (1)      | 3.18  | M-G                       | -929 / 0      | 0.38 (1) |
| H-I    | -2297 / 0                 | -91.8 -91.8                   | 0.70 (1)      | 3.78  | M-H                       | 0 / 1670      | 0.38 (1) |
| I-J    | 0 / 35                    | -91.8 -91.8                   | 0.12 (1)      | 10.00 | L-H                       | -243 / 10     | 0.09 (1) |
| S-B    | -2023 / 0                 | 0.0 0.0                       | 0.21 (1)      | 5.94  | B-R                       | 0 / 1943      | 0.44 (1) |
| K-I    | -2023 / 0                 | 0.0 0.0                       | 0.21 (1)      | 5.94  | L-I                       | 0 / 1943      | 0.44 (1) |
| S-R    | 0 / 0                     | -18.5 -18.5                   | 0.15 (4)      | 10.00 |                           |               |          |
| R-Q    | 0 / 1904                  | -18.5 -18.5                   | 0.39 (1)      | 10.00 |                           |               |          |
| Q-P    | 0 / 3213                  | -18.5 -18.5                   | 0.58 (1)      | 10.00 |                           |               |          |
| P-O    | 0 / 3213                  | -18.5 -18.5                   | 0.58 (1)      | 10.00 |                           |               |          |
| O-N    | 0 / 3213                  | -18.5 -18.5                   | 0.58 (1)      | 10.00 |                           |               |          |
| N-M    | 0 / 3213                  | -18.5 -18.5                   | 0.58 (1)      | 10.00 |                           |               |          |
| M-L    | 0 / 1903                  | -18.5 -18.5                   | 0.39 (1)      | 10.00 |                           |               |          |
| L-K    | 0 / 0                     | -18.5 -18.5                   | 0.15 (4)      | 10.00 |                           |               |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 25.6 PSF

BOT CH. LL = 0.0 PSF

TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN/OC**

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")

CALCULATED VERT. DEFL.(LL) = L/889 (0.21")

ALLOWABLE DEFL.(TL) = L/360 (1.17")

CALCULATED VERT. DEFL.(TL) = L/989 (0.39")

CSI: TC=0.88/1.00 (E-G:1), BC=0.58/1.00 (O-Q:1), WB=0.44/1.00 (B-R:1), SS=0.26/1.00 (G-H:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

MAX MIN MAX MIN MAX MIN

MT20 615 354 1667 783 1907 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

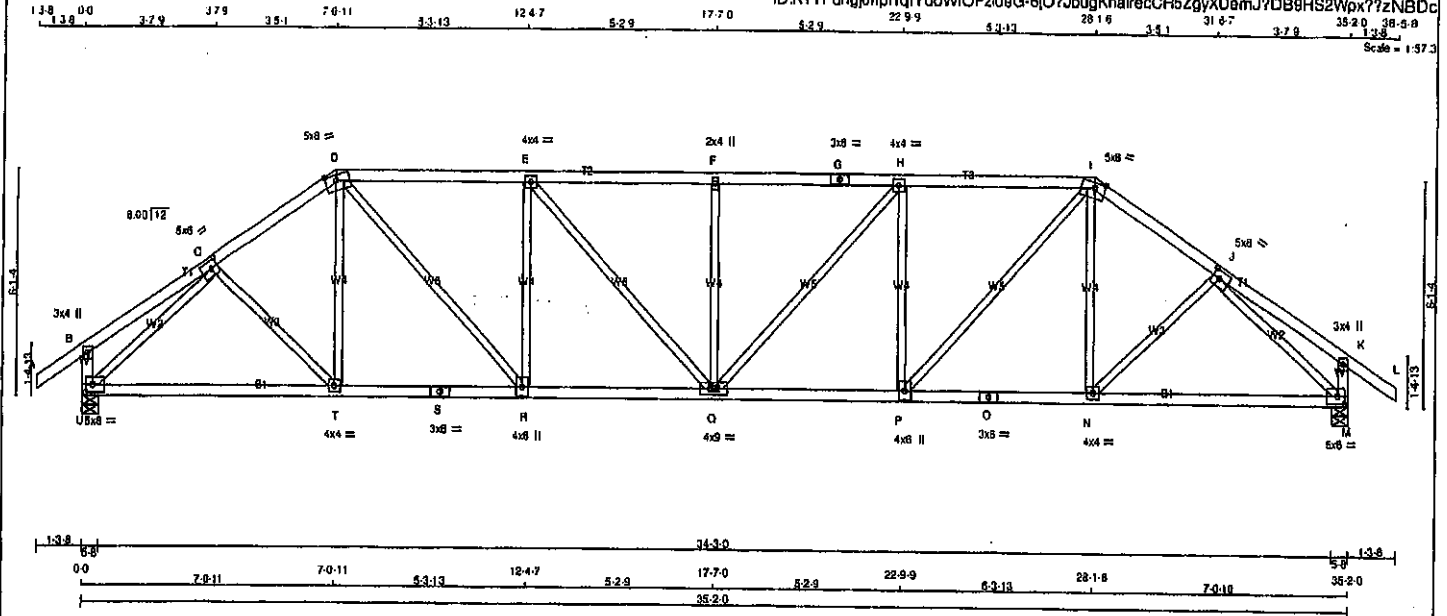
JSI GRIP= 0.87 (B) (INPUT = 0.80)

JSI METAL= 0.74 (P) (INPUT = 1.00)

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408169   | T22        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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**LUMBER** N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER TOTAL WEIGHT = 2 X 151 = 303 lb

| CHORDS   | SIZE | LUMBER   | DESCR. |
|----------|------|----------|--------|
| A - D    | 2x4  | DRY No.2 | SPF    |
| D - G    | 2x4  | DRY No.2 | SPF    |
| G - I    | 2x4  | DRY No.2 | SPF    |
| I - L    | 2x4  | DRY No.2 | SPF    |
| U - B    | 2x4  | DRY No.2 | SPF    |
| M - K    | 2x4  | DRY No.2 | SPF    |
| U - S    | 2x4  | DRY No.2 | SPF    |
| S - O    | 2x4  | DRY No.2 | SPF    |
| O - M    | 2x4  | DRY No.2 | SPF    |
| ALL WEBS | 2x3  | DRY No.2 | SPF    |
| EXCEPT   |      |          |        |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| D  | TMVW-m | MT20   | 5.0 | 6.0 | 1.75 | 3.50 |
| E  | TMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| F  | TMVW-1 | MT20   | 2.0 | 4.0 |      |      |
| G  | TS-1   | MT20   | 3.0 | 6.0 |      |      |
| H  | TMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| I  | TMVW-m | MT20   | 5.0 | 6.0 | 1.75 | 3.50 |
| J  | TMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| K  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| M  | BMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| N  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| O  | BS-1   | MT20   | 3.0 | 6.0 |      |      |
| P  | BMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| Q  | BMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| R  | BMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| S  | BS-1   | MT20   | 3.0 | 6.0 |      |      |
| T  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| U  | BMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |

| FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------------|------------------|-------|------|
| GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT VERT        | HORZ             | DOWN  | HORZ |
| U 2085         | 0                | 0     | 5-8  |
| M 2085         | 0                | 0     | 5-8  |

**UNFACTORED REACTIONS**  
1ST LCASE MAX/MIN COMPONENT REACTIONS  
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL  
U 1458 970/0 0/0 0/0 0/0 488/0 0/0  
M 1458 970/0 0/0 0/0 0/0 488/0 0/0  
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, M

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 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.         | MEMB.                |
| MAX. FACTORED | MAX. FACTORED        |
| FORCE (LBS)   | FORCE (LBS)          |
| FR-TO         | FR-TO                |
| FROM TO       | FROM TO              |
| VERT. LOAD    | VERT. LOAD           |
| LC1           | LC1                  |
| MAX           | MAX                  |
| CSI (LC)      | CSI (LC)             |
| A-B 0/35      | -91.8 -91.8 0.12 (1) |
| B-C 0/18      | -91.8 -91.8 0.18 (1) |
| C-D -2305/0   | -91.8 -91.8 0.25 (1) |
| D-E -2723/0   | -91.8 -91.8 0.54 (1) |
| E-F -2988/0   | -91.8 -91.8 0.56 (1) |
| F-G -2988/0   | -91.8 -91.8 0.56 (1) |
| G-H -2988/0   | -91.8 -91.8 0.56 (1) |
| H-I -2723/0   | -91.8 -91.8 0.54 (1) |
| I-J -2305/0   | -91.8 -91.8 0.23 (1) |
| J-K 0/18      | -91.8 -91.8 0.16 (1) |
| K-L 0/35      | -91.8 -91.8 0.12 (1) |
| U-B -255/0    | 0.0 0.0 0.03 (1)     |
| M-K -255/0    | 0.0 0.0 0.03 (1)     |
| U-T 0/1802    | -18.5 -18.5 0.40 (1) |
| T-S 0/1801    | -18.5 -18.5 0.41 (1) |
| S-R 0/1801    | -18.5 -18.5 0.41 (1) |
| R-Q 0/2724    | -18.5 -18.5 0.49 (1) |
| Q-P 0/2723    | -18.5 -18.5 0.49 (1) |
| P-O 0/1900    | -18.5 -18.5 0.41 (1) |
| O-N 0/1900    | -18.5 -18.5 0.41 (1) |
| N-M 0/1801    | -18.5 -18.5 0.40 (1) |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.58/1.00 (E-F:1), BC=0.49/1.00 (Q-R:1),  
WB=0.97/1.00 (G-U:1), SSI=0.23/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

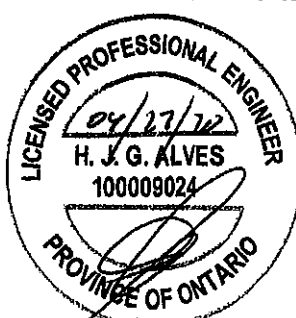
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (M) (INPUT = 0.90)  
JSI METAL = 0.63 (C) (INPUT = 1.00)

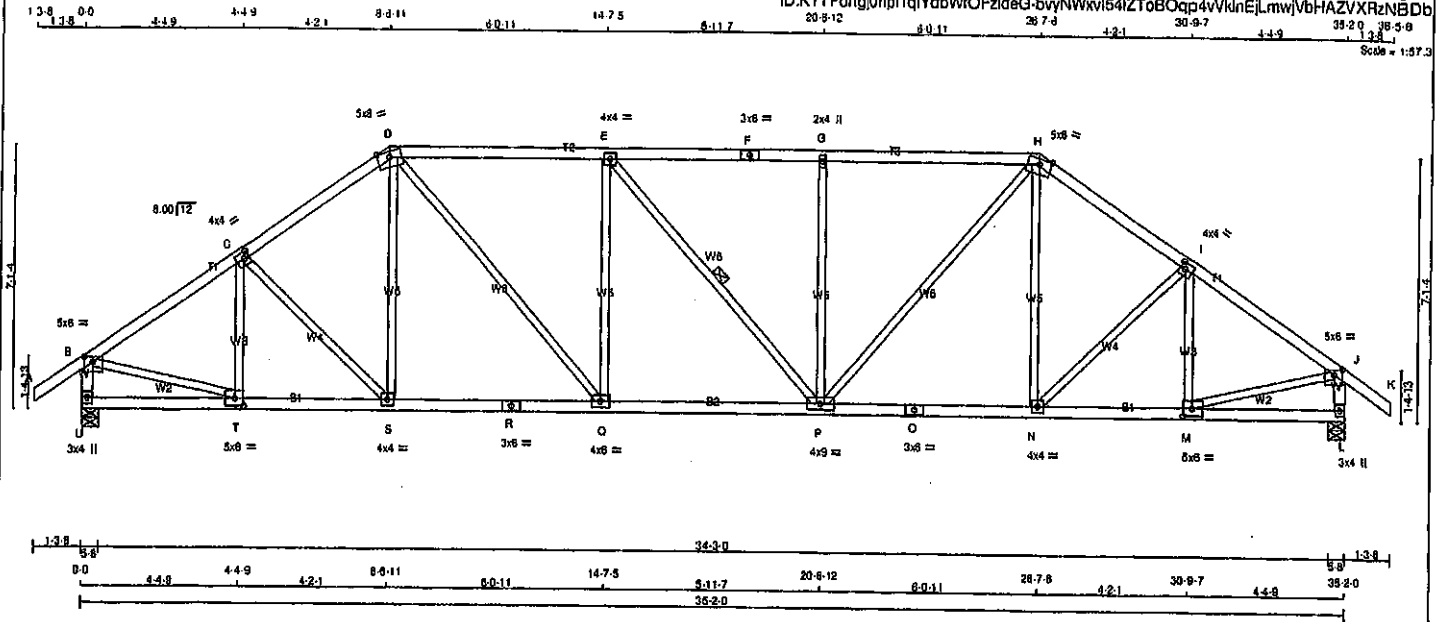


Structural component only  
DWG# T-2007148

|          |            |          |     |                  |             |          |
|----------|------------|----------|-----|------------------|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | ORWG NO. |
| 408169   | T23        | 2        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |        |     |     |           |
|--------------------------|--------|-----|-----|-----------|
| JT TYPE                  | PLATES | W   | LEN | Y X       |
| B TMWV-p                 | MT20   | 5.0 | 8.0 | 1.75 2.75 |
| C TMWV-l                 | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| D TTWV-m                 | MT20   | 5.0 | 8.0 | Edge      |
| E TMWV-l                 | MT20   | 4.0 | 4.0 |           |
| F TS-l                   | MT20   | 3.0 | 8.0 |           |
| G TMWV-m                 | MT20   | 2.0 | 4.0 |           |
| H TTWV-m                 | MT20   | 5.0 | 8.0 | Edge      |
| I TMWV-l                 | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| J TMWV-p                 | MT20   | 5.0 | 8.0 | 1.75 2.75 |
| L BMV-l-p                | MT20   | 3.0 | 4.0 |           |
| M BMWV-l                 | MT20   | 5.0 | 8.0 | 2.50 2.75 |
| N BMWV-l                 | MT20   | 4.0 | 4.0 |           |
| O BS-l                   | MT20   | 3.0 | 8.0 |           |
| P BMWV-l                 | MT20   | 4.0 | 8.0 |           |
| Q BMWV-l                 | MT20   | 4.0 | 8.0 |           |
| R BS-l                   | MT20   | 3.0 | 8.0 |           |
| S BMWV-l                 | MT20   | 4.0 | 4.0 |           |
| T BMWV-l                 | MT20   | 5.0 | 8.0 | 2.50 2.75 |
| U BMV-l-p                | MT20   | 3.0 | 4.0 |           |

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

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT |     | REQD  |       |
|----------|------|----------------|------|------------------|------|-------|-----|-------|-------|
| JT       | VERT | GROSS REACTION | DOWN | GROSS REACTION   | DOWN | BRG   | BRG | IN-SX | IN-SX |
| U        | 2085 | 0              | 2085 | 0                | 0    | 5-8   | 5-8 |       |       |
| L        | 2085 | 0              | 2085 | 0                | 0    | 5-8   | 5-8 |       |       |

| UNFACTORED REACTIONS |          | 1ST CASE |       | MAX/MIN. COMPONENT REACTIONS |       | PERM. LIVE |       | WIND    |       | DEAD    |       | SOIL  |       |
|----------------------|----------|----------|-------|------------------------------|-------|------------|-------|---------|-------|---------|-------|-------|-------|
| JT                   | COMBINED | SNOW     | LIVE  | SNOW                         | LIVE  | SNOW       | LIVE  | SNOW    | LIVE  | SNOW    | LIVE  | SNOW  | LIVE  |
| U                    | 1488     | 970 / 0  | 0 / 0 | 0 / 0                        | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 | 488 / 0 | 0 / 0 | 0 / 0 | 0 / 0 |
| L                    | 1488     | 970 / 0  | 0 / 0 | 0 / 0                        | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 | 488 / 0 | 0 / 0 | 0 / 0 | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED        |                | W EBS |             | MAX. FACTORED |           |
|--------|-------------|-----------------|----------------|-------|-------------|---------------|-----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PL) | LC1 MAX. (PL)  | MEMB. | FORCE (LBS) | MAX. (LC)     | MAX. (LC) |
| FR-TO  |             |                 |                | FR-TO |             |               |           |
| A-B    | 0 / 35      | -91.8           | -91.8 0.12 (1) | 10.00 | T-C         | -398 / 0      | 0.11 (1)  |
| B-C    | -2270 / 0   | -91.8           | -91.8 0.37 (1) | 4.19  | C-S         | -79 / 0       | 0.05 (1)  |
| C-D    | -2254 / 0   | -91.8           | -91.8 0.38 (1) | 4.21  | S-D         | 0 / 158       | 0.04 (4)  |
| D-E    | -2485 / 0   | -91.8           | -91.8 0.64 (1) | 3.72  | D-Q         | 0 / 948       | 0.21 (1)  |
| E-F    | -2483 / 0   | -91.8           | -91.8 0.64 (1) | 3.72  | Q-E         | -597 / 0      | 0.52 (1)  |
| F-G    | -2483 / 0   | -91.8           | -91.8 0.64 (1) | 3.72  | E-P         | -2 / 0        | 0.00 (1)  |
| G-H    | -2483 / 0   | -91.8           | -91.8 0.83 (1) | 3.74  | P-Q         | -598 / 0      | 0.52 (1)  |
| H-I    | -2254 / 0   | -91.8           | -91.8 0.38 (1) | 4.21  | P-H         | 0 / 947       | 0.21 (1)  |
| I-J    | -2269 / 0   | -91.8           | -91.8 0.37 (1) | 4.19  | N-H         | 0 / 157       | 0.04 (4)  |
| J-K    | 0 / 35      | -91.8           | -91.8 0.12 (1) | 10.00 | N-I         | -78 / 0       | 0.05 (1)  |
| U-B    | -2027 / 0   | 0.0             | 0.0 0.21 (1)   | 5.84  | M-I         | -397 / 0      | 0.11 (1)  |
| L-J    | -2026 / 0   | 0.0             | 0.0 0.21 (1)   | 5.84  | B-T         | 0 / 1988      | 0.44 (1)  |
|        |             |                 |                |       | M-J         | 0 / 1988      | 0.44 (1)  |
| U-T    | 0 / 0       | -18.5           | -18.5 0.08 (4) | 10.00 |             |               |           |
| T-S    | 0 / 1909    | -18.5           | -18.5 0.37 (1) | 10.00 |             |               |           |
| S-R    | 0 / 1854    | -18.5           | -18.5 0.38 (1) | 10.00 |             |               |           |
| R-Q    | 0 / 1854    | -18.5           | -18.5 0.38 (1) | 10.00 |             |               |           |
| Q-P    | 0 / 2485    | -18.5           | -18.5 0.47 (1) | 10.00 |             |               |           |
| P-O    | 0 / 1854    | -18.5           | -18.5 0.38 (1) | 10.00 |             |               |           |
| O-N    | 0 / 1854    | -18.5           | -18.5 0.38 (1) | 10.00 |             |               |           |
| N-M    | 0 / 1908    | -18.5           | -18.5 0.37 (1) | 10.00 |             |               |           |
| M-L    | 0 / 0       | -18.5           | -18.5 0.08 (4) | 10.00 |             |               |           |

### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN. G.C.**

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.64/1.00 (D-E:1), BC=0.47/1.00 (P-Q:1), WB=0.52/1.00 (E-Q:1), SS=0.28/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

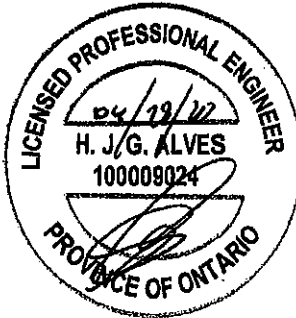
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1887 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.80 (D) (INPUT = 0.80)  
JSI METAL = 0.82 (D) (INPUT = 1.00)

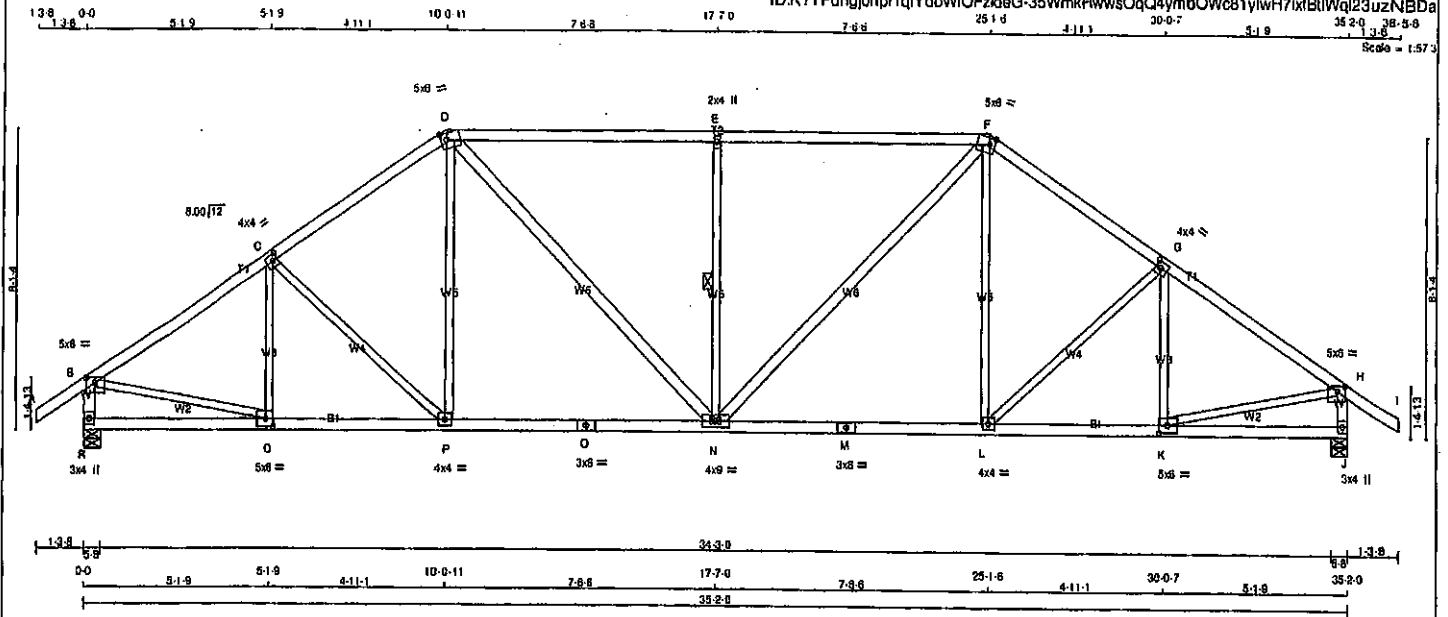


Structural component only  
DWG# T-2007149

|             |            |          |     |                  |          |
|-------------|------------|----------|-----|------------------|----------|
| JOB NAME    | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169      | T24        | 2        | 1   | GREEN PARK HOMES |          |
| TRUSS DESC. |            |          |     |                  |          |

Tamareck Roof Truss, Burlington

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| CHORDS   | SIZE | LUMBER   | DESCR. |
|----------|------|----------|--------|
| A - D    | 2x4  | DRY No.2 | SPF    |
| D - F    | 2x4  | DRY No.2 | SPF    |
| F - I    | 2x4  | DRY No.2 | SPF    |
| R - B    | 2x4  | DRY No.2 | SPF    |
| J - H    | 2x4  | DRY No.2 | SPF    |
| R - O    | 2x4  | DRY No.2 | SPF    |
| O - M    | 2x4  | DRY No.2 | SPF    |
| M - J    | 2x4  | DRY No.2 | SPF    |
| ALL WEBS | 2x3  | DRY No.2 | SPF    |
| EXCEPT   |      |          |        |
| D - N    | 2x4  | DRY No.2 | SPF    |
| N - F    | 2x4  | DRY No.2 | SPF    |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| C  | TMVW-i | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| E  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| G  | TMVW-i | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| H  | TMVW-p | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| J  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| K  | BMVW-i | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| L  | BMVW-i | MT20   | 4.0 | 4.0 |      |      |
| M  | BS-i   | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVW-i | MT20   | 4.0 | 9.0 |      |      |
| O  | BS-i   | MT20   | 3.0 | 6.0 |      |      |
| P  | BMVW-i | MT20   | 4.0 | 4.0 |      |      |
| Q  | BMVW-i | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| R  | 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 | RECORD BRG |
|----|-------------------------|---------------------------------|-----------|------------|
| JT | VERT                    | HORIZ                           | DOWN      | HORIZ      |
| R  | 2065                    | 0                               | 2065      | 0          |
| J  | 2065                    | 0                               | 2065      | 0          |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----|----------|-------------------------------|------|------------|------|-------|------|
| JT | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| R  | 1458     | 970/0                         | 0/0  | 0/0        | 0/0  | 488/0 | 0/0  |
| J  | 1458     | 970/0                         | 0/0  | 0/0        | 0/0  | 488/0 | 0/0  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |              | WEBS  |                           |              |          |
|--------|---------------------------|---------------------------|--------------|-------|---------------------------|--------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |          |
| FR-TO  |                           | FROM TO                   |              | FR-TO |                           |              |          |
| A-B    | 0/35                      | -91.8 -91.8               | 0.12 (1)     | 10.00 | Q-C                       | -321/0       | 0.11 (1) |
| B-C    | -2318/0                   | -91.8 -91.8               | 0.38 (1)     | 4.18  | C-P                       | -218/0       | 0.18 (1) |
| C-D    | -2188/0                   | -91.8 -91.8               | 0.37 (1)     | 4.28  | P-D                       | 0/286        | 0.08 (1) |
| D-E    | -2274/0                   | -91.8 -91.8               | 0.81 (1)     | 3.47  | D-N                       | 0/691        | 0.11 (1) |
| E-F    | -2274/0                   | -91.8 -91.8               | 0.81 (1)     | 3.47  | N-E                       | -851/0       | 0.35 (1) |
| F-G    | -2185/0                   | -91.8 -91.8               | 0.37 (1)     | 4.28  | N-F                       | 0/691        | 0.11 (1) |
| G-H    | -2317/0                   | -91.8 -91.8               | 0.38 (1)     | 4.18  | L-F                       | 0/268        | 0.08 (1) |
| H-I    | 0/35                      | -91.8 -91.8               | 0.12 (1)     | 10.00 | L-G                       | -218/0       | 0.18 (1) |
| I-B    | -2022/0                   | 0.0 0.0                   | 0.21 (1)     | 5.94  | K-G                       | -321/0       | 0.11 (1) |
| J-H    | -2022/0                   | 0.0 0.0                   | 0.21 (1)     | 5.94  | B-Q                       | 0/1986       | 0.45 (1) |
|        |                           |                           |              |       | K-H                       | 0/1986       | 0.45 (1) |
| R-Q    | 0/0                       | -18.5 -18.5               | 0.10 (4)     | 10.00 |                           |              |          |
| Q-P    | 0/1959                    | -18.5 -18.5               | 0.40 (1)     | 10.00 |                           |              |          |
| P-O    | 0/1794                    | -18.5 -18.5               | 0.41 (1)     | 10.00 |                           |              |          |
| O-N    | 0/1794                    | -18.5 -18.5               | 0.41 (1)     | 10.00 |                           |              |          |
| N-M    | 0/1794                    | -18.5 -18.5               | 0.41 (1)     | 10.00 |                           |              |          |
| M-L    | 0/1794                    | -18.5 -18.5               | 0.41 (1)     | 10.00 |                           |              |          |
| L-K    | 0/1953                    | -18.5 -18.5               | 0.40 (1)     | 10.00 |                           |              |          |
| K-J    | 0/0                       | -18.5 -18.5               | 0.10 (4)     | 10.00 |                           |              |          |

TOTAL WEIGHT = 2 X 158 = 317 b

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 6.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 PSF |

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/989 (0.11")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/989 (0.22")

CSI: TC=0.81/1.00 (D-E:1), BC=0.41/1.00 (N-P:1), WB=0.45/1.00 (B-Q:1), SS=0.34/1.00 (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            | 818   | 354     |
|                 | 1667  | 788     |
|                 | 1987  | 1656    |

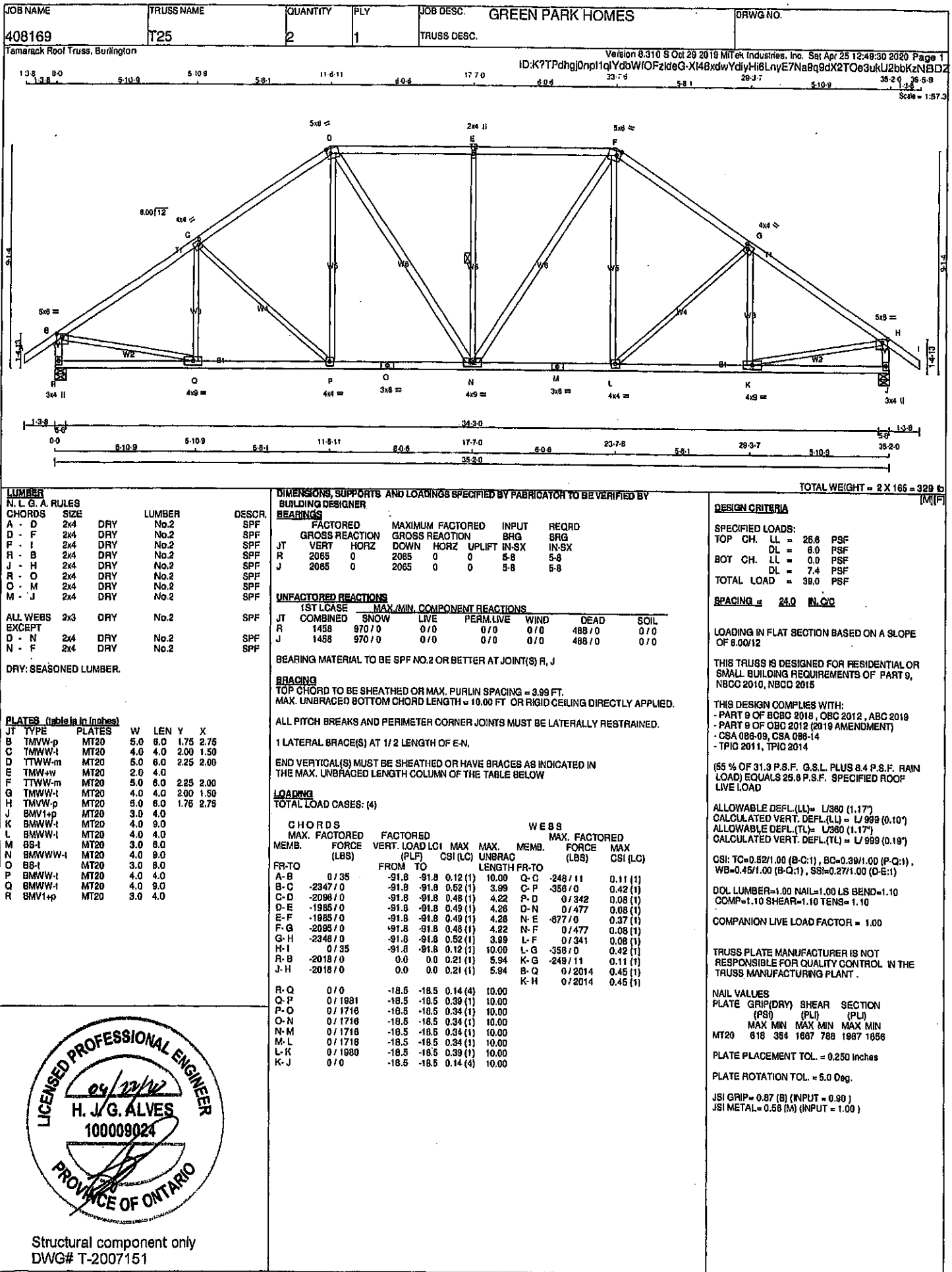
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.87 (B) (INPUT = 0.90)  
JSI METAL=0.84 (M) (INPUT = 1.00)



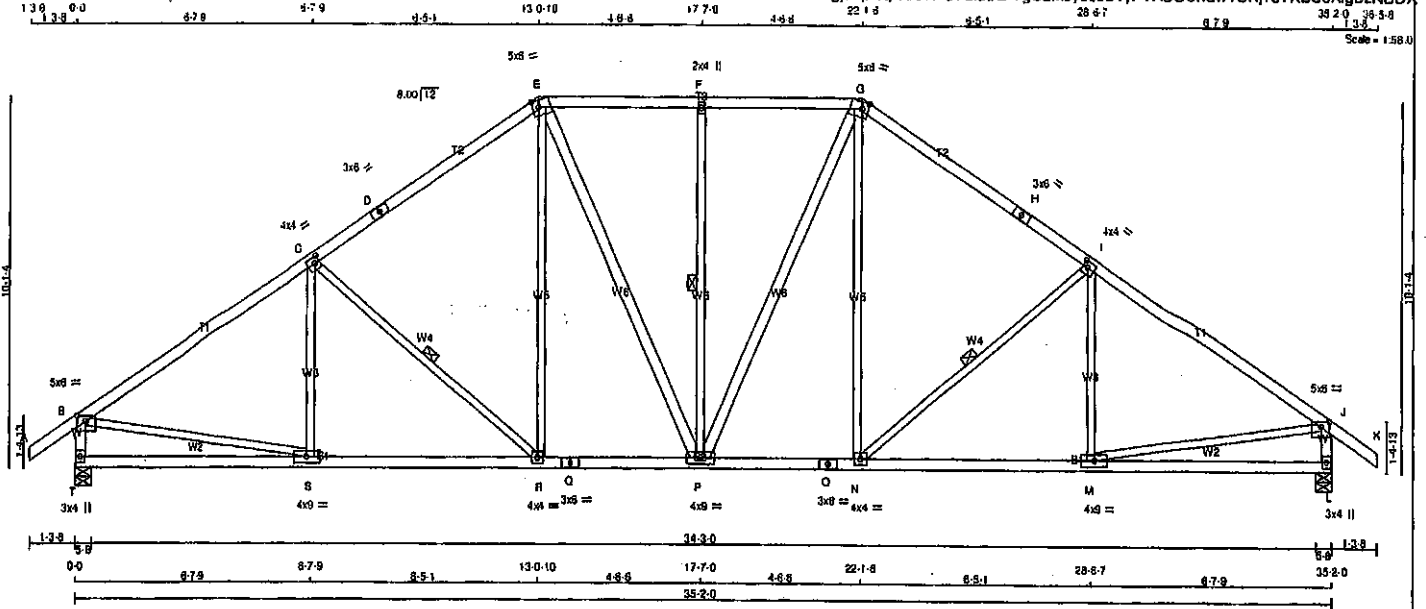
Structural component only  
DWG# T-2007150



|                                                                                    |            |          |     |                  |          |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169                                                                             | T26        | 5        | 1   | GREEN PARK HOMES |          |
| Version 8.310 5 Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:49:32 2020 Page 1 |            |          |     |                  |          |

Tamarack Roof Truss, Burlington

ID:K7TPdghj0npl1qYobWfOfzideG-TgCuMJyosJC7yPVA3e9rfawTUKjTsYXBCoXigDzNBdX



TOTAL WEIGHT = 5 X 172 = 858 lb (M/P)

| LUMBER   | N. L. G. A. RULES | CHOROS | SIZE | LUMBER | DESCR. |
|----------|-------------------|--------|------|--------|--------|
| A - D    | 2x4               | DRY    | No.2 | SPF    |        |
| D - E    | 2x4               | DRY    | No.2 | SPF    |        |
| E - G    | 2x4               | DRY    | No.2 | SPF    |        |
| G - H    | 2x4               | DRY    | No.2 | SPF    |        |
| H - K    | 2x4               | DRY    | No.2 | SPF    |        |
| T - B    | 2x4               | DRY    | No.2 | SPF    |        |
| L - J    | 2x4               | DRY    | No.2 | SPF    |        |
| T - Q    | 2x4               | DRY    | No.2 | SPF    |        |
| Q - O    | 2x4               | DRY    | No.2 | SPF    |        |
| O - L    | 2x4               | DRY    | No.2 | SPF    |        |
| ALL WEBS | 2x3               | DRY    | No.2 | SPF    |        |
| EXCEPT   |                   |        |      |        |        |
| E - P    | 2x4               | DRY    | No.2 | SPF    |        |
| P - G    | 2x4               | DRY    | No.2 | SPF    |        |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| JT TYPE                     |      |     |     |           |
| B TMVW-p                    | MT20 | 5.0 | 8.0 | 1.75 2.75 |
| C TMVW-l                    | MT20 | 4.0 | 4.0 | 2.00 1.50 |
| D TS-I                      | MT20 | 3.0 | 8.0 |           |
| E TTWW-m                    | MT20 | 5.0 | 8.0 | 2.25 2.00 |
| F TMVW-w                    | MT20 | 2.0 | 4.0 |           |
| G TTWW-m                    | MT20 | 5.0 | 8.0 | 2.25 2.00 |
| H TS-I                      | MT20 | 3.0 | 8.0 |           |
| I TMVW-l                    | MT20 | 4.0 | 4.0 | 2.00 1.50 |
| J TMVW-p                    | MT20 | 5.0 | 8.0 | 1.75 2.75 |
| L BMV-l-p                   | MT20 | 3.0 | 4.0 |           |
| M BMVW-l                    | MT20 | 4.0 | 9.0 |           |
| N BMVW-l                    | MT20 | 4.0 | 9.0 |           |
| O BS-I                      | MT20 | 3.0 | 8.0 |           |
| P BMVW-l                    | MT20 | 4.0 | 9.0 |           |
| Q BS-I                      | MT20 | 3.0 | 8.0 |           |
| R BMVW-l                    | MT20 | 4.0 | 9.0 |           |
| S BMVW-l                    | MT20 | 4.0 | 9.0 |           |
| T BMV-l-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 | DOWN             | HORIZ | UPLIFT |
| JT VERT        | 2085           | 0                | 0     | 5-8    |
| T VERT         | 2085           | 0                | 0     | 5-8    |
| L VERT         | 2085           | 0                | 0     | 5-8    |

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |
|----------------------|----------|---------|---------------------|
|                      | SNOW     | LIVE    | PERM. LIVE          |
| JT COMBINED          | 970 / 0  | 0 / 0   | 0 / 0               |
| T COMBINED           | 970 / 0  | 0 / 0   | 0 / 0               |
| L COMBINED           | 970 / 0  | 0 / 0   | 0 / 0               |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 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, F-P, I-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)

| CHOROS | MAX. FACTORED | FACTORED             | WEBS                 | MAX. FACTORED     |
|--------|---------------|----------------------|----------------------|-------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF)     | MAX. UNBRACED LENGTH | MEMB. FORCE (LBS) |
| FR-TO  |               | FROM TO              |                      | FR-TO             |
| A-B    | 0 / 35        | -91.8 -91.8 0.12 (1) | 10.00                | S-G -189 / 48     |
| B-C    | -2359 / 0     | -91.8 -91.8 0.09 (1) | 3.77                 | C-R -485 / 0      |
| C-D    | -1996 / 0     | -91.8 -91.8 0.62 (1) | 4.11                 | R-E 0 / 418       |
| D-E    | -1996 / 0     | -91.8 -91.8 0.62 (1) | 4.11                 | E-P 0 / 315       |
| E-F    | -1781 / 0     | -91.8 -91.8 0.27 (1) | 4.77                 | P-F -502 / 0      |
| F-G    | -1781 / 0     | -91.8 -91.8 0.27 (1) | 4.77                 | G-P 0 / 315       |
| G-H    | -1996 / 0     | -91.8 -91.8 0.62 (1) | 4.11                 | H-G 0 / 418       |
| H-I    | -1996 / 0     | -91.8 -91.8 0.62 (1) | 4.11                 | I-N -189 / 48     |
| I-J    | -2358 / 0     | -91.8 -91.8 0.09 (1) | 3.77                 | N-J 0 / 2022      |
| J-K    | 0 / 35        | -91.8 -91.8 0.12 (1) | 10.00                | B-S 0 / 2021      |
| T-B    | -2014 / 0     | 0.0 0.0 0.21 (1)     | 5.85                 | M-J 0 / 2021      |
| L-J    | -2014 / 0     | 0.0 0.0 0.21 (1)     | 5.85                 |                   |
| T-S    | 0 / 0         | -18.5 -18.5 0.19 (4) | 10.00                |                   |
| S-R    | 0 / 1908      | -18.5 -18.5 0.42 (1) | 10.00                |                   |
| R-Q    | 0 / 1629      | -18.5 -18.5 0.32 (1) | 10.00                |                   |
| Q-P    | 0 / 1629      | -18.5 -18.5 0.32 (1) | 10.00                |                   |
| P-O    | 0 / 1629      | -18.5 -18.5 0.32 (1) | 10.00                |                   |
| O-N    | 0 / 1629      | -18.5 -18.5 0.32 (1) | 10.00                |                   |
| N-M    | 0 / 1995      | -18.5 -18.5 0.42 (1) | 10.00                |                   |
| M-L    | 0 / 0         | -18.5 -18.5 0.19 (4) | 10.00                |                   |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | DL = 25.8 | P6F |
|            | LL = 8.0  | P6F |
| BOT CH.    | DL = 0.0  | P6F |
|            | LL = 7.4  | P6F |
| TOTAL LOAD | = 39.0    | P6F |

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (LL) = L/899 (0.09")  
ALLOWABLE DEFL. (TL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.18")

CSI: TC=0.69/1.00 (B-C:1), BC=0.42/1.00 (R-S:1), WB=0.45/1.00 (B-S:1), SS=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR   | SECTION            |
|-----------------|---------|--------------------|
| (PSI)           | (PL)    | (PL)               |
| MT20            | 618 354 | 1657 788 1987 1658 |

PLATE PLACEMENT TOL. = 0.250 inches

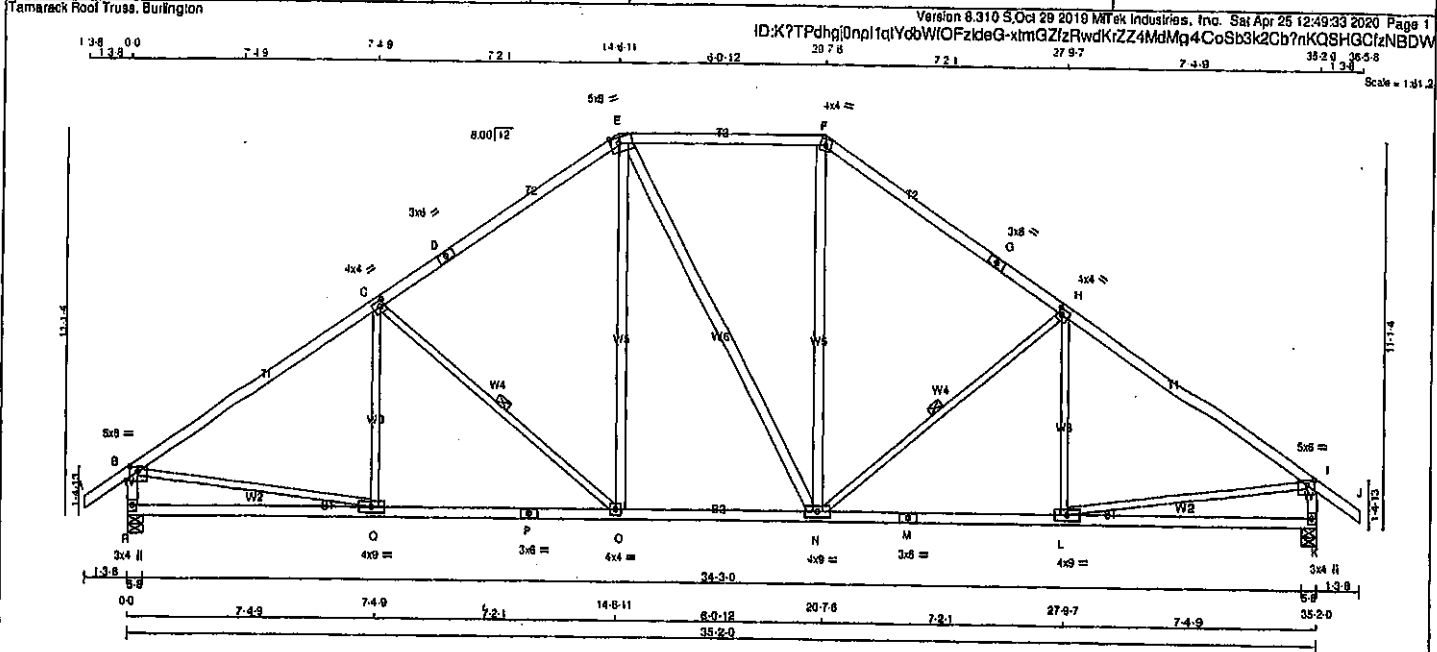
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (B) (INPUT = 0.90)  
JSI METAL= 0.50 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007152

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408169</b>       | TRUSS NAME<br><b>T27</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                      |          |



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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-p  | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| C  | TMVW-l  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D  | TS-l    | MT20   | 3.0 | 6.0 |      |      |
| E  | TTWV-m  | MT20   | 5.0 | 6.0 | 2.00 | 3.00 |
| F  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| G  | TS-l    | MT20   | 3.0 | 6.0 |      |      |
| H  | TMVW-l  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| I  | TMVW-p  | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| K  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| L  | BMVW-l  | MT20   | 4.0 | 9.0 |      |      |
| M  | BS-l    | MT20   | 3.0 | 6.0 |      |      |
| N  | BMVWV-l | MT20   | 4.0 | 9.0 |      |      |
| O  | BMVW-l  | MT20   | 4.0 | 4.0 |      |      |
| P  | BS-l    | MT20   | 3.0 | 6.0 |      |      |
| Q  | BMVW-l  | MT20   | 4.0 | 9.0 |      |      |
| R  | 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 | IN-SX | IN-SX | BRG  | BRG |
| R        | 2065 | 0        | 2065 | 0                | 0      | 5-8   | 5-8   |      |     |
| K        | 2065 | 0        | 2065 | 0                | 0      | 5-8   | 5-8   |      |     |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX MIN | COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND    | DEAD  | SOIL  |
|----|----------|---------|---------------------|-------|-------|------------|---------|-------|-------|
| R  | 1458     | 970 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0      | 488 / 0 | 0 / 0 | 0 / 0 |
| K  | 1458     | 970 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0      | 488 / 0 | 0 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.45 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-O, H-N.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                  |                           | WEBS  |                           |                           |                           |
|--------|---------------------------|------------------|---------------------------|-------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. UNBRACED LENGTH (FT) |
| FR-TO  |                           |                  |                           | FR-TO |                           |                           |                           |
| A-B    | 0 / 35                    | -91.8            | -91.8 0.12 (1)            | 10.00 | Q-C                       | -139 / 78                 | 0.09 (1)                  |
| B-C    | -2358 / 0                 | -91.8            | -91.8 0.89 (1)            | 3.45  | C-O                       | -805 / 0                  | 0.38 (1)                  |
| C-D    | -1888 / 0                 | -91.8            | -91.8 0.78 (1)            | 3.91  | O-E                       | 0 / 499                   | 0.08 (1)                  |
| D-E    | -1888 / 0                 | -91.8            | -91.8 0.78 (1)            | 3.91  | E-N                       | 0 / 0                     | 0.00 (1)                  |
| E-F    | -1538 / 0                 | -91.8            | -91.8 0.47 (1)            | 4.74  | N-F                       | 0 / 500                   | 0.08 (1)                  |
| F-G    | -1888 / 0                 | -91.8            | -91.8 0.78 (1)            | 3.91  | H-H                       | -604 / 0                  | 0.38 (1)                  |
| G-H    | -1888 / 0                 | -91.8            | -91.8 0.78 (1)            | 3.91  | L-H                       | -140 / 75                 | 0.09 (1)                  |
| H-I    | -2357 / 0                 | -91.8            | -91.8 0.89 (1)            | 3.45  | Q-Q                       | 0 / 2020                  | 0.45 (1)                  |
| I-J    | 0 / 35                    | -91.8            | -91.8 0.12 (1)            | 10.00 | L-I                       | 0 / 2019                  | 0.45 (1)                  |
| R-B    | -2009 / 0                 | 0.0              | 0.0 0.21 (1)              | 5.35  |                           |                           |                           |
| K-I    | -2009 / 0                 | 0.0              | 0.0 0.21 (1)              | 5.35  |                           |                           |                           |
| R-Q    | 0 / 0                     | -18.5            | -18.5 0.25 (4)            | 10.00 |                           |                           |                           |
| Q-P    | 0 / 1989                  | -18.5            | -18.5 0.45 (1)            | 10.00 |                           |                           |                           |
| P-O    | 0 / 1989                  | -18.5            | -18.5 0.45 (1)            | 10.00 |                           |                           |                           |
| O-N    | 0 / 1538                  | -18.5            | -18.5 0.33 (1)            | 10.00 |                           |                           |                           |
| N-M    | 0 / 1989                  | -18.5            | -18.5 0.45 (1)            | 10.00 |                           |                           |                           |
| M-L    | 0 / 1989                  | -18.5            | -18.5 0.45 (1)            | 10.00 |                           |                           |                           |
| L-K    | 0 / 0                     | -18.5            | -18.5 0.24 (4)            | 10.00 |                           |                           |                           |

TOTAL WEIGHT = 2 X 168 = 336 LBS

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(85 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (LL) = L/899 (0.09")  
ALLOWABLE DEFL. (TL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (TL) = L/899 (0.20")

CSI: TC=0.89/1.00 (B-C:1), BC=0.45/1.00 (O-Q:1), WB=0.45/1.00 (B-C:1), SSI=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

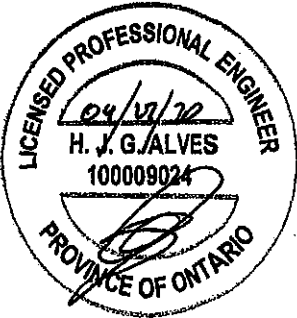
##### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.80 (F) (INPUT = 0.80)  
JSI METAL = 0.63 (P) (INPUT = 1.00)



Structural component only  
DWG# T-2007153

|                           |                          |                      |                 |                                 |                  |          |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------------|------------------|----------|
| JOB NAME<br><b>408169</b> | TRUSS NAME<br><b>T28</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>TRUSS DESC.</b> | GREEN PARK HOMES | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|---------------------------------|------------------|----------|

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:49:34 2020 Page 1  
ID:k?TPdhgJOnplqYdbWIOFzIdG-P3Jfn?\_3gwSIBjYB3BJk77uz8RBKVIUJ6OpI5zNBDV  
Tamarack Roof Truss, Burlington  
Scale = 1/4"=1'-0"

**TOTAL WEIGHT = 2 X 122 = 245 LB**

| <b>LUMBER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                 |           | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |           |           | <b>DESIGN CRITERIA</b> |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>N. L. G. A. RULES</b><br>CHORDS SIZE LUMBER DESCR.<br>A - C 2x4 DRY No.2 SPF<br>C - F 2x4 DRY No.2 SPF<br>F - G 2x4 DRY No.2 SPF<br>N - B 2x6 DRY No.2 SPF<br>H - G 2x4 DRY No.2 SPF<br>N - K 2x6 DRY No.2 SPF<br>K - H 2x6 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF EXCEPT<br>DRY: SEASONED LUMBER.<br>DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:<br>CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)<br>TOP CHORDS : (0.122"x3") SPIRAL NAILS<br>A-C 1 12 TOP<br>C-F 1 12 TOP<br>F-G 1 12 TOP<br>H-G 1 12 TOP<br>N-B 2 12 TOP<br>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS<br>N-K 2 12 TOP<br>K-H 2 12 SIDE(183.1)<br>WEBS : (0.122"x3") SPIRAL NAILS<br>E-J 1 6 SIDE(77.0)<br>2x3 1 6<br>NAILS TO BE DRIVEN FROM ONE SIDE ONLY.<br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br>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.<br>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. |                   |                 |           | <b>BEARINGS</b><br>FACTORED MAXIMUM FACTORED INPUT REQD<br>GROSS REACTION GROSS REACTION BRG BRG<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>N 2088 0 2088 0 0 5-8 5-8<br>H 2756 0 2756 0 0 MECHANICAL<br>A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3-8.<br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX/MIN COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>N 1470 994 / 0 0 / 0 0 / 0 478 / 0 0 / 0<br>H 1841 1320 / 0 0 / 0 0 / 0 620 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) N<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.78 FT.<br>MAX. UNBRADED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.<br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)<br><table style="width:100%; font-size: small;"> <thead> <tr> <th colspan="2">C H O R D S</th> <th colspan="2">F A C T O R E D</th> <th colspan="2">M E M B .</th> <th colspan="2">W E B S</th> </tr> <tr> <th>M E M B .</th> <th>F O R C E (L B S)</th> <th>V E R T .</th> <th>H O R Z .</th> <th>M E M B .</th> <th>F O R C E (L B S)</th> <th>V E R T .</th> <th>H O R Z .</th> </tr> </thead> <tbody> <tr> <td>A-B</td> <td>0 / 35</td> <td>-91.8</td> <td>-91.8</td> <td>0.07 (1)</td> <td>10.00</td> <td>M-O</td> <td>-218 / 22</td> </tr> <tr> <td>B-C</td> <td>-2383 / 0</td> <td>-91.8</td> <td>-91.8</td> <td>0.37 (1)</td> <td>5.41</td> <td>C-L</td> <td>0 / 1550</td> </tr> <tr> <td>C-D</td> <td>-3093 / 0</td> <td>-91.8</td> <td>-91.8</td> <td>0.24 (1)</td> <td>5.03</td> <td>L-D</td> <td>-928 / 0</td> </tr> <tr> <td>D-E</td> <td>-3519 / 0</td> <td>-91.8</td> <td>-91.8</td> <td>0.25 (1)</td> <td>4.78</td> <td>D-J</td> <td>0 / 589</td> </tr> <tr> <td>E-F</td> <td>-3519 / 0</td> <td>-91.8</td> <td>-91.8</td> <td>0.24 (1)</td> <td>4.79</td> <td>J-E</td> <td>-508 / 0</td> </tr> <tr> <td>F-G</td> <td>-2352 / 0</td> <td>-91.8</td> <td>-91.8</td> <td>0.16 (1)</td> <td>5.69</td> <td>J-F</td> <td>0 / 2156</td> </tr> <tr> <td>N-B</td> <td>-2037 / 0</td> <td>0.0</td> <td>0.0</td> <td>0.07 (1)</td> <td>7.81</td> <td>I-F</td> <td>-548 / 0</td> </tr> <tr> <td>H-G</td> <td>-2632 / 0</td> <td>0.0</td> <td>0.0</td> <td>0.19 (1)</td> <td>7.01</td> <td>B-M</td> <td>0 / 1991</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>I-G</td> <td>0 / 2264</td> </tr> </tbody> </table> |                   |           |           | C H O R D S            |  | F A C T O R E D |  | M E M B . |  | W E B S |  | M E M B . | F O R C E (L B S) | V E R T . | H O R Z . | M E M B . | F O R C E (L B S) | V E R T . | H O R Z . | A-B | 0 / 35 | -91.8 | -91.8 | 0.07 (1) | 10.00 | M-O | -218 / 22 | B-C | -2383 / 0 | -91.8 | -91.8 | 0.37 (1) | 5.41 | C-L | 0 / 1550 | C-D | -3093 / 0 | -91.8 | -91.8 | 0.24 (1) | 5.03 | L-D | -928 / 0 | D-E | -3519 / 0 | -91.8 | -91.8 | 0.25 (1) | 4.78 | D-J | 0 / 589 | E-F | -3519 / 0 | -91.8 | -91.8 | 0.24 (1) | 4.79 | J-E | -508 / 0 | F-G | -2352 / 0 | -91.8 | -91.8 | 0.16 (1) | 5.69 | J-F | 0 / 2156 | N-B | -2037 / 0 | 0.0 | 0.0 | 0.07 (1) | 7.81 | I-F | -548 / 0 | H-G | -2632 / 0 | 0.0 | 0.0 | 0.19 (1) | 7.01 | B-M | 0 / 1991 |  |  |  |  |  |  | I-G | 0 / 2264 | <b>SPECIFIED LOADS:</b><br>TOP CH. LL = 25.6 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 8.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><b>SPACING = 24.0 IN. C/C</b><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF CBC 2018, OBC 2012, ABC 2019<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 088-09, CSA 088-14<br>- TPIC 2011, TPIC 2014<br>(85 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.8 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.85")<br>CALCULATED VERT. DEFL.(LL) = L/989 (0.06")<br>ALLOWABLE DEFL.(TL)= L/360 (0.85")<br>CALCULATED VERT. DEFL.(TL) = L/989 (0.11")<br>CSI: TC=0.37/1.00 (B-C:1), BC=0.27/1.00 (J-L:1), WB=0.28/1.00 (G-I:1), SI=0.34/1.00 (J-L:1)<br>DCL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00<br>COMPANION LIVE LOAD FACTOR = 1.00<br>AUTOSOLVE RIGHT HEEL ONLY<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.<br>NAIL VALUES<br>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 618 354 1887 788 1887 1886<br>PLATE PLACEMENT TOL. = 0.250 inches<br>PLATE ROTATION TOL. = 5.0 Deg.<br>JSI GRIP = 0.80 (F) (INPUT = 0.80 )<br>JSI METAL = 0.45 (G) (INPUT = 1.00 ) |  |  |  |
| C H O R D S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | F A C T O R E D |           | M E M B .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | W E B S   |           |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| M E M B .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | F O R C E (L B S) | V E R T .       | H O R Z . | M E M B .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F O R C E (L B S) | V E R T . | H O R Z . |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| A-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 / 35            | -91.8           | -91.8     | 0.07 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10.00             | M-O       | -218 / 22 |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| B-C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -2383 / 0         | -91.8           | -91.8     | 0.37 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5.41              | C-L       | 0 / 1550  |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| C-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -3093 / 0         | -91.8           | -91.8     | 0.24 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5.03              | L-D       | -928 / 0  |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| D-E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -3519 / 0         | -91.8           | -91.8     | 0.25 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.78              | D-J       | 0 / 589   |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| E-F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -3519 / 0         | -91.8           | -91.8     | 0.24 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.79              | J-E       | -508 / 0  |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| F-G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -2352 / 0         | -91.8           | -91.8     | 0.16 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5.69              | J-F       | 0 / 2156  |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| N-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -2037 / 0         | 0.0             | 0.0       | 0.07 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7.81              | I-F       | -548 / 0  |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| H-G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -2632 / 0         | 0.0             | 0.0       | 0.19 (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7.01              | B-M       | 0 / 1991  |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   | I-G       | 0 / 2264  |                        |  |                 |  |           |  |         |  |           |                   |           |           |           |                   |           |           |     |        |       |       |          |       |     |           |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |         |     |           |       |       |          |      |     |          |     |           |       |       |          |      |     |          |     |           |     |     |          |      |     |          |     |           |     |     |          |      |     |          |  |  |  |  |  |  |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |

Structural component only  
DWG# T-2007154 1/2

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408169              | TRUSS NAME<br>T28 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | TRUSS DESC.                   |          |

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 28 12:49:34 2020 Page 2  
ID:K?TPdhi0npl1q1YdbW/QFzdeG-P3J/n? 3gwSIEIYB9BJk??uz8R8KVUJf6Qp15zNBDV

**PLATES (table in inches)**

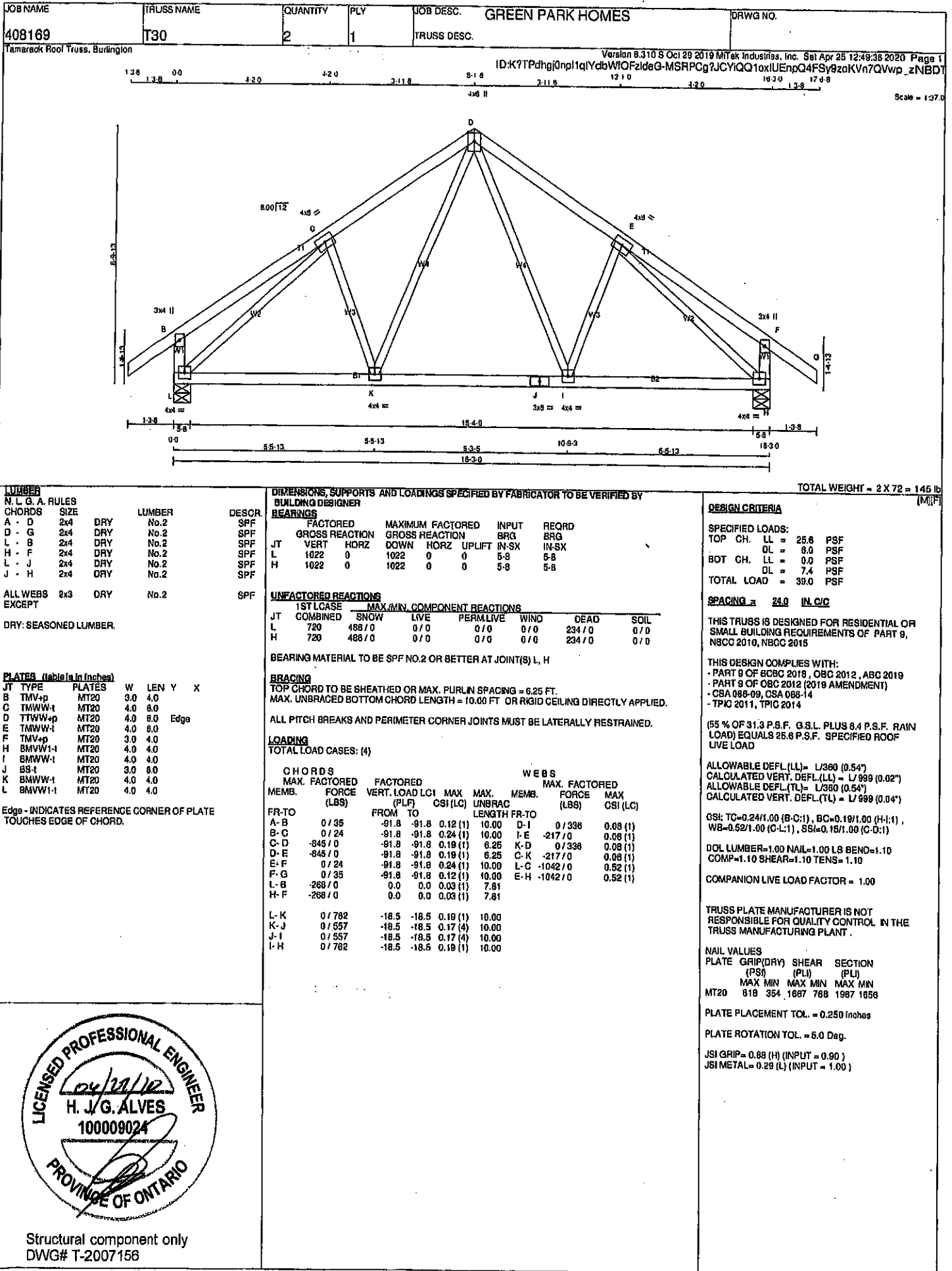
| JT      | TYPE   | PLATES | W   | LEN | Y    | X    |
|---------|--------|--------|-----|-----|------|------|
| B       | TMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 1.75 |
| C       | TTWW+m | MT20   | 5.0 | 8.0 | 2.00 | 1.50 |
| D       | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| E       | TMVW+w | MT20   | 2.0 | 4.0 |      |      |
| F       | TTWW-m | MT20   | 5.0 | 8.0 | 2.00 | 1.50 |
| G       | TMVW+p | MT20   | 5.0 | 8.0 | Edge |      |
| H       | BMV1+p | MT20   | 3.0 | 8.0 |      |      |
| I, L, M |        |        |     |     |      |      |
| J       | BMVW-t | MT20   | 5.0 | 8.0 |      |      |
| K       | BS-t   | MT20   | 5.0 | 8.0 |      |      |
| N       | BMV1+p | MT20   | 3.0 | 8.0 |      |      |

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



Structural component only  
DWG# T-2007154 *2/1*

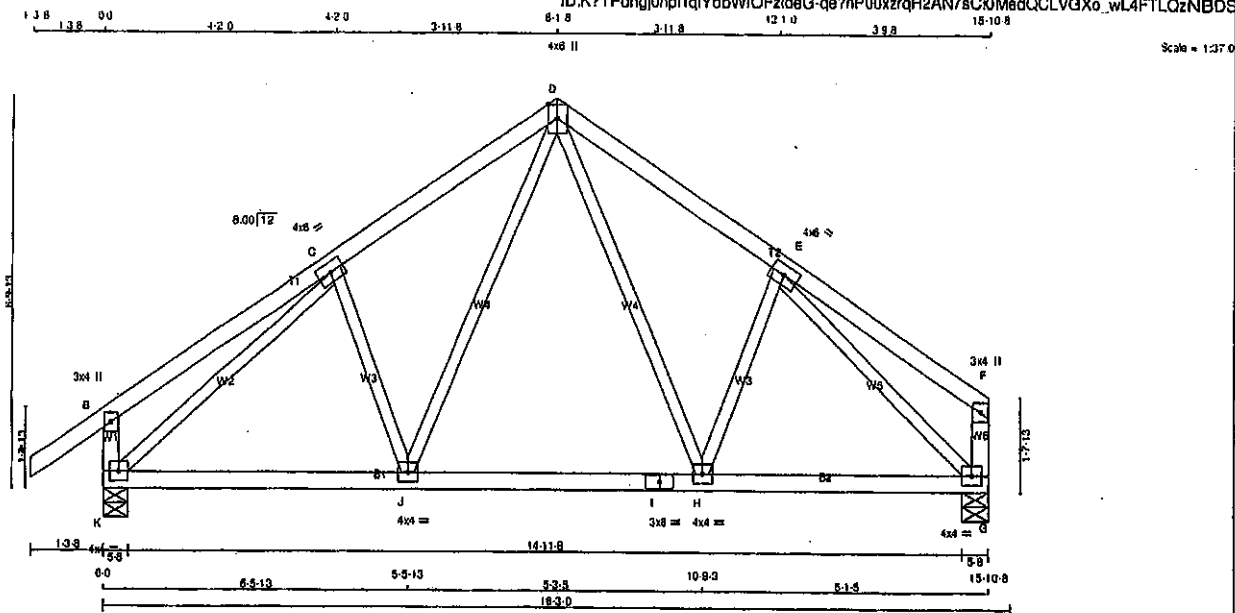




|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408169   | T30A       | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 70 = 140 lb

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

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table in inches) | JT     | TYPE | PLATES | W   | LEN | Y | X    |
|--------------------------|--------|------|--------|-----|-----|---|------|
| B                        | TMV+p  | MT20 | 3.0    | 4.0 |     |   |      |
| C                        | TMVW-1 | MT20 | 4.0    | 8.0 |     |   |      |
| D                        | TTWV+p | MT20 | 4.0    | 8.0 |     |   | Edge |
| E                        | TMVW-1 | MT20 | 4.0    | 8.0 |     |   |      |
| F                        | TMV+p  | MT20 | 3.0    | 4.0 |     |   |      |
| G                        | BMVW-1 | MT20 | 4.0    | 4.0 |     |   |      |
| H                        | BMVW-1 | MT20 | 4.0    | 4.0 |     |   |      |
| I                        | BS-1   | MT20 | 3.0    | 6.0 |     |   |      |
| J                        | BMVW-1 | MT20 | 4.0    | 4.0 |     |   |      |
| K                        | BMVW-1 | MT20 | 4.0    | 4.0 |     |   |      |

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

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|----------------|------------------|-------|------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT       | VERT           | HORZ             | DOWN  | HORZ |
| K        | 1001           | 0                | 1001  | 0    |
| G        | 875            | 0                | 875   | 0    |

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |
|----------------------|----------|---------|---------------------|
| JT                   | COMBINED | SNOW    | LIVE                |
| K                    | 703      | 478 / 0 | 0 / 0               |
| G                    | 619      | 408 / 0 | 0 / 0               |

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED | MEMB.      | FORCE    | VERT. LOAD | LC1  | MAX       | MAX.     | MEMB.      | MAX. FACTORED |
|--------|---------------|----------|------------|----------|------------|------|-----------|----------|------------|---------------|
| FR-TO  | MEMB.         | FORCE    | VERT. LOAD | LC1      | MAX        | MAX. | MEMB.     | FORCE    | VERT. LOAD | LC1           |
| A-B    | 0 / 35        | -91.8    | -91.8      | 0.12 (1) | 10.00      | D-H  | 0 / 272   | 0.08 (1) |            |               |
| B-C    | 0 / 24        | -91.8    | -91.8      | 0.24 (1) | 10.00      | H-E  | -180 / 2  | 0.05 (1) |            |               |
| C-D    | -817 / 0      | -91.8    | -91.8      | 0.18 (1) | 8.25       | J-D  | 0 / 342   | 0.08 (1) |            |               |
| D-E    | -783 / 0      | -91.8    | -91.8      | 0.18 (1) | 8.25       | C-J  | -222 / 0  | 0.08 (1) |            |               |
| E-F    | 0 / 24        | -91.8    | -91.8      | 0.22 (1) | 10.00      | K-C  | -1012 / 0 | 0.51 (1) |            |               |
| K-B    | -288 / 0      | 0.0      | 0.0        | 0.03 (1) | 7.81       | E-G  | -992 / 0  | 0.44 (1) |            |               |
| G-F    | -124 / 0      | 0.0      | 0.0        | 0.01 (1) | 7.81       |      |           |          |            |               |
| K-J    | 0 / 740       | -18.5    | -18.5      | 0.18 (1) | 10.00      |      |           |          |            |               |
| J-I    | 0 / 531       | -18.5    | -18.5      | 0.17 (4) | 10.00      |      |           |          |            |               |
| I-H    | 0 / 531       | -18.5    | -18.5      | 0.17 (4) | 10.00      |      |           |          |            |               |
| H-G    | 0 / 691       | -18.5    | -18.5      | 0.17 (1) | 10.00      |      |           |          |            |               |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 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, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(56 % OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.53")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.53")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.24/1.00 (B-C:1), BC=0.18/1.00 (J-K:1),

WB=0.51/1.00 (C-K:1), SSI=0.15/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LB BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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 1587 789 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (K) (INPUT = 0.90)  
JSI METAL= 0.28 (K) (INPUT = 1.00)

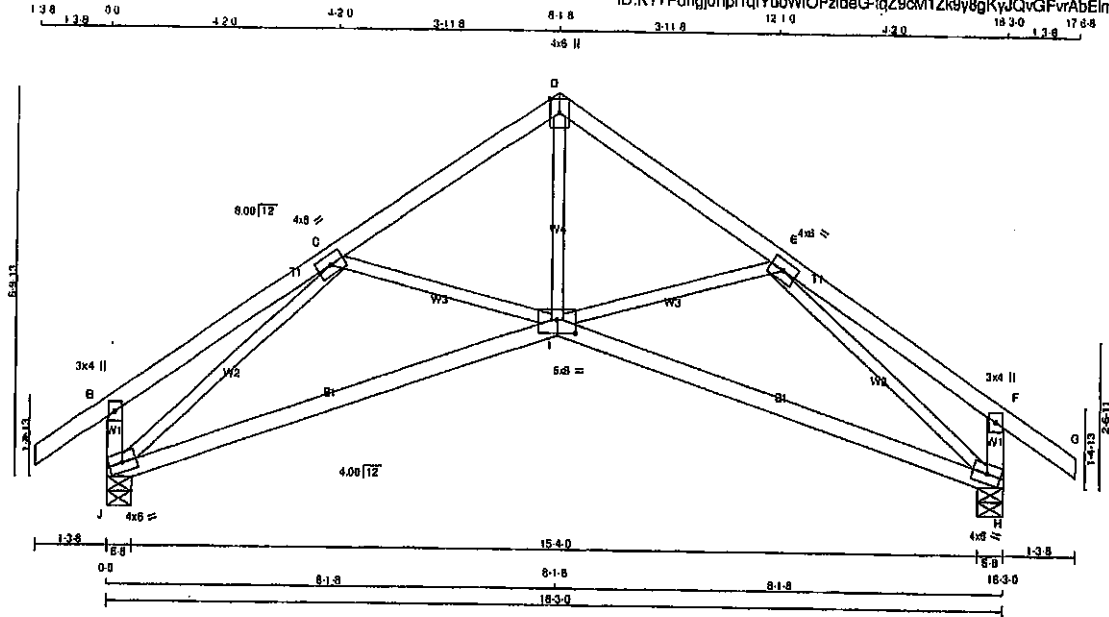


Structural component only  
DWG# T-2007157

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408169   | T30S       | 2        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

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Scale = 1:37.5

**LUMBER** N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER TOTAL WEIGHT = 2 X 67 = 133 lb

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| A - D  | 2x4  | DRY    | No.2   |
| D - G  | 2x4  | DRY    | No.2   |
| J - B  | 2x4  | DRY    | No.2   |
| H - F  | 2x4  | DRY    | No.2   |
| J - I  | 2x4  | DRY    | No.2   |
| I - H  | 2x4  | DRY    | No.2   |

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

**PLATES** (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMVW-1  | MT20   | 4.0 | 8.0 |      |      |
| D  | TTW+p   | MT20   | 4.0 | 8.0 | Edge |      |
| E  | TMVW-1  | MT20   | 4.0 | 8.0 |      |      |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW1-1 | MT20   | 4.0 | 8.0 |      |      |
| I  | BSVWV-p | MT20   | 5.0 | 8.0 | 2.75 | 4.00 |
| J  | BMVW1-1 | MT20   | 4.0 | 8.0 |      |      |

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

**BEARINGS**

| JT | VERT | HORZ | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|------|------|-------------------------|---------------------------------|-----------|----------|
| J  | 1022 | 0    | 1022                    | 0                               | 5-8       | 5-8      |
| H  | 1022 | 0    | 1022                    | 0                               | 5-8       | 5-8      |

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW    | LIVE  | PERM LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| J  | 720      | 488 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |
| H  | 720      | 488 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.76 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 / 35                    | -91.8 -91.8               | 0.12 (1)      | I-D   | 0 / 842                   | 0.21 (1)      |  |
| B-C    | 0 / 22                    | -91.8 -91.8               | 0.22 (1)      | I-E   | -143 / 11                 | 0.05 (1)      |  |
| C-D    | -1134 / 0                 | -91.8 -91.8               | 0.19 (1)      | C-I   | -143 / 11                 | 0.05 (1)      |  |
| D-E    | -1134 / 0                 | -91.8 -91.8               | 0.19 (1)      | J-G   | -1478 / 0                 | 0.78 (1)      |  |
| E-F    | 0 / 22                    | -91.8 -91.8               | 0.22 (1)      | E-H   | -1478 / 0                 | 0.78 (1)      |  |
| F-G    | 0 / 35                    | -91.8 -91.8               | 0.12 (1)      |       |                           |               |  |
| J-B    | -273 / 0                  | 0.0 0.0                   | 0.03 (1)      |       |                           |               |  |
| H-F    | -273 / 0                  | 0.0 0.0                   | 0.03 (1)      |       |                           |               |  |
| J-I    | 0 / 1120                  | -18.5 -18.5               | 0.44 (4)      |       |                           |               |  |
| I-H    | 0 / 1120                  | -18.5 -18.5               | 0.44 (4)      |       |                           |               |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |            |
|------------|------------|
| TOP CH. LL | = 25.6 PSF |
| DL         | = 8.0 PSF  |
| BOT CH. LL | = 0.0 PSF  |
| DL         | = 7.4 PSF  |
| TOTAL LOAD | = 39.0 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 NBC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2018 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(TL) = L/789 (0.25")

CSI: TC=0.22/1.00 (E-F:1), BC=0.44/1.00 (H:4), WB=0.78/1.00 (C-J:1), SS=0.15/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 | 1687 788 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)  
JSI METAL= 0.35 (H) (INPUT = 1.00)

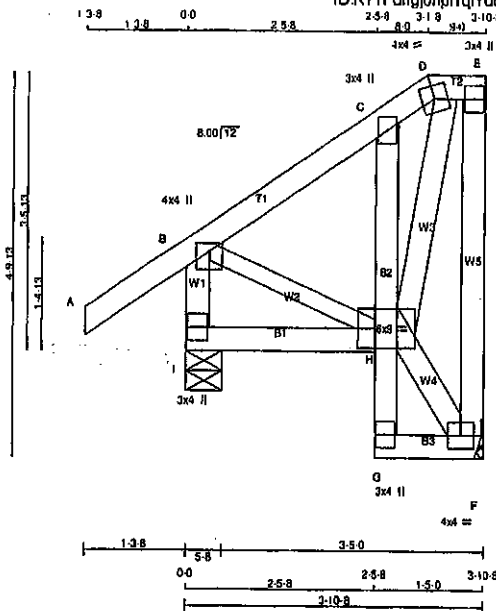


Structural component only  
DWG# T-2007158

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169   | T31S       | 1        | 1   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

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Scale = 1/20.0

| CHORDS   | SIZE | DRY | No.2 |
|----------|------|-----|------|
| A - D    | 2x4  | DRY | No.2 |
| D - E    | 2x4  | DRY | No.2 |
| F - E    | 2x4  | DRY | No.2 |
| I - B    | 2x4  | DRY | No.2 |
| I - H    | 2x4  | DRY | No.2 |
| G - C    | 2x4  | DRY | No.2 |
| G - F    | 2x4  | DRY | No.2 |
| ALL WEBS | 2x4  | DRY | No.2 |
| EXCEPT   |      |     |      |
| B - H    | 2x3  | DRY | No.2 |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE      | PLATES | W   | LEN | Y    | X    |
|----|-----------|--------|-----|-----|------|------|
| S  | TMVW+p    | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| D  | TMV+p     | MT20   | 3.0 | 4.0 |      |      |
| O  | TTW+m     | MT20   | 4.0 | 4.0 |      |      |
| E  | TMV+p     | MT20   | 3.0 | 4.0 |      |      |
| F  | BMVW1-t   | MT20   | 4.0 | 4.0 |      |      |
| G  | BMV+p     | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVWVW1-t | MT20   | 6.0 | 9.0 | 3.00 | 2.75 |
| I  | 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 |
| F        | 193            | 0                | 193   | 0    |
| I        | 361            | 0                | 361   | 0    |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |
|----|----------|---------|---------------------|
|    | COMBINED | SNOW    | LIVE                |
| F  | 136      | 88 / 0  | 0 / 0               |
| I  | 282      | 181 / 0 | 0 / 0               |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS | MAX. FACTORED | FACTORED             | WEBS  | MAX. FACTORED |
|--------|---------------|----------------------|-------|---------------|
| MEMB.  | FORCE         | VERT. LOAD LC1       | MEMB. | FORCE         |
|        | (LBS)         | (PLF)                |       | (LBS)         |
| FR-TO  |               | FROM TO              | FR-TO |               |
| A-B    | 0 / 35        | -91.8 -91.8 0.14 (5) | 10.00 |               |
| B-C    | -87 / 0       | -91.8 -91.8 0.09 (1) | 8.25  |               |
| C-D    | -99 / 0       | -91.8 -91.8 0.07 (1) | 8.25  |               |
| D-E    | -11 / 0       | -91.8 -91.8 0.07 (1) | 8.25  |               |
| F-E    | -148 / 0      | 0.0 0.0 0.04 (1)     | 7.81  |               |
| I-B    | -327 / 0      | 0.0 0.0 0.02 (4)     | 7.81  |               |
| I-H    | 0 / 8         | -18.5 -18.5 0.03 (4) | 10.00 |               |
| G-H    | -2 / 8        | 0.0 0.0 0.05 (1)     | 10.00 |               |
| H-C    | -203 / 0      | 0.0 0.0 0.04 (1)     | 7.81  |               |
| G-F    | 0 / 30        | -18.5 -18.5 0.03 (1) | 10.00 |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 29 lb

(M)

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.19")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.19")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CSI: TO=0.14/1.00 (A-B:5), BC=0.05/1.00 (G-H:1), WB=0.03/1.00 (D-H:1), SSI=0.12/1.00 (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 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 789 1937 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

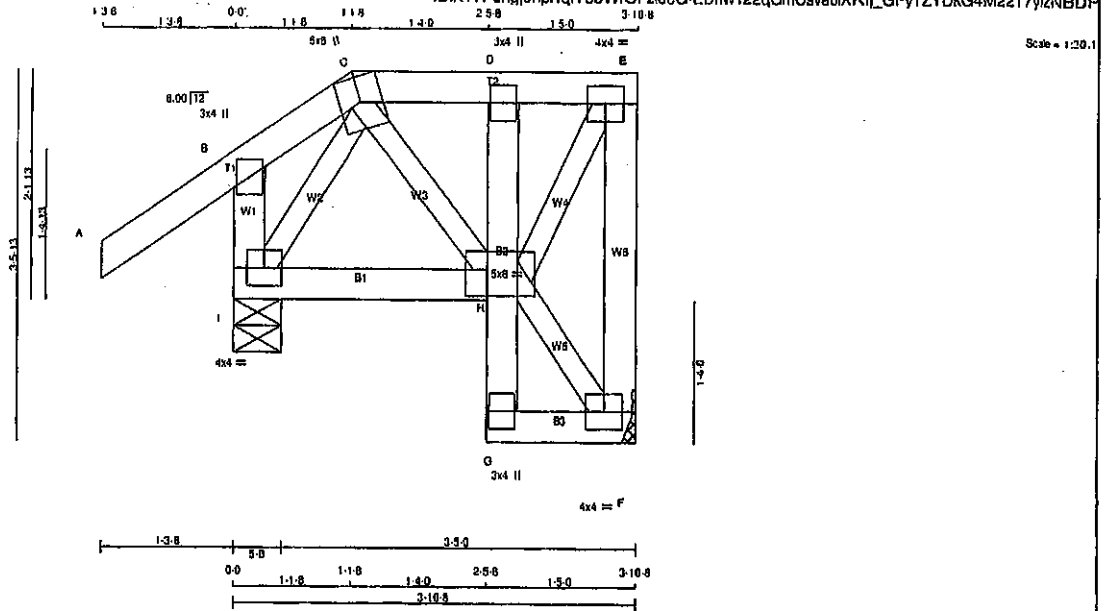
JSI GRIP = 0.23 (8) (INPUT = 0.90)  
JSI METAL = 0.07 (8) (INPUT = 1.00)



Structural component only  
DWG# T-2007159

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169                          | T32S       | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C TTWW+m | MT20   | 5.0 | 6.0 | Edge |      |
| D TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| E TMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| F BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| G BMV+p  | MT20   | 3.0 | 4.0 |      |      |
| H BVMW-1 | MT20   | 5.0 | 8.0 | 3.00 | 2.50 |
| I BMVW-1 | MT20   | 4.0 | 4.0 |      |      |

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

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

| BEARINGS |      | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|------|----------------|------------------|-------|------|
| JT       | VERT | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| F        | 191  | 0              | 191              | 0     | 0    |
| I        | 382  | 0              | 382              | 0     | 0    |

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

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|----------|---------|-------|-----------|-------|--------|-------|
| F  | 138      | 87 / 12 | 0 / 0 | 0 / 0     | 0 / 0 | 49 / 0 | 0 / 0 |
| I  | 283      | 182 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 71 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (6)

| CHORDS |                           | FACTORED   |                | WEBS  |                           |
|--------|---------------------------|------------|----------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD | LC1 MAX. (PLF) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FROM       | TO             | FR-TO |                           |
| A-B    | 0 / 35                    | -91.8      | -91.8 0.14 (5) | C-H   | 0 / 60                    |
| B-C    | -41 / 0                   | -91.8      | -91.8 0.13 (5) | H-F   | -7 / 0                    |
| C-D    | -89 / 0                   | -91.8      | -91.8 0.02 (1) | H-E   | 0 / 153                   |
| D-E    | -88 / 0                   | -91.8      | -91.8 0.02 (1) | I-C   | -100 / 34                 |
| F-E    | -175 / 0                  | 0.0        | 0.0 0.03 (1)   |       |                           |
| I-B    | -253 / 0                  | 0.0        | 0.0 0.03 (1)   |       |                           |
| I-H    | -18 / 53                  | -18.5      | -18.5 0.04 (4) |       |                           |
| G-H    | 0 / 13                    | 0.0        | 0.0 0.01 (1)   |       |                           |
| H-D    | -142 / 0                  | 0.0        | 0.0 0.01 (1)   |       |                           |
| G-F    | 0 / 5                     | -18.5      | -18.5 0.01 (4) |       |                           |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 25 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

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

(85 % OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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=0.14/1.00 (A-B-5), BC=0.04/1.00 (H-I-4),  
WB=0.03/1.00 (E-F-1), SSI=0.09/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

| PLATE | GRIP(ORY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
| (PSI) | (PLI)     | (PLI) | (PLI)              |
| MT20  | 618       | 354   | 1687 788 1887 1658 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (E) (INPUT = 0.80)  
JSI METAL= 0.09 (B) (INPUT = 1.00)

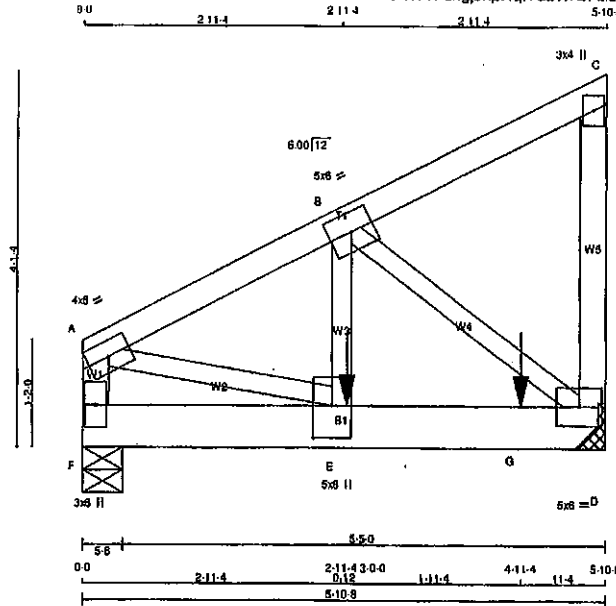


Structural component only  
DWG# T-2007160

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408169              | TRUSS NAME<br>T33 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   | TRUSS DESC.   |          |                               |          |

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Scale = 1:20.0



TOTAL WEIGHT = 2 X 29 = 58 lb

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| F - A                 | 2x4    | DRY  | No.2   |
| A - C                 | 2x4    | DRY  | No.2   |
| D - C                 | 2x4    | DRY  | No.2   |
| F - D                 | 2x8    | DRY  | No.2   |
| ALL WEBS              | 2x3    | DRY  | No.2   |
| DRY: SEASONED LUMBER. |        |      |        |

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)   |
|------------------------------------------|----------------------|--------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |              |
| F - A                                    | 12                   | TOP          |
| A - C                                    | 12                   | TOP          |
| C - D                                    | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| F - D                                    | 9                    | SIDE (305.2) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| B - E                                    | 2                    | SIDE (408.9) |
| 2x3                                      | 6                    |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| PLATES (table in inches) |        |        |     |     |           |
|--------------------------|--------|--------|-----|-----|-----------|
| JT                       | TYPE   | PLATES | W   | LEN | Y         |
| A                        | TMVW+  | MT20   | 4.0 | 6.0 | X         |
| B                        | TMVW+  | MT20   | 5.0 | 6.0 | Edge      |
| C                        | TMV+p  | MT20   | 3.0 | 4.0 |           |
| D                        | BMVW1+ | MT20   | 5.0 | 6.0 |           |
| E                        | BMVW1+ | MT20   | 5.0 | 6.0 | 4.25 2.50 |

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

| BEARINGS |      | FACTORED       | MAXIMUM FACTORED | INPUT | REQD       |
|----------|------|----------------|------------------|-------|------------|
| JT       | VERT | GROSS REACTION | GROSS REACTION   | BRG   | BRG        |
| F        | 1914 | 0              | 1914             | 0     | 5-8        |
| D        | 2859 | 0              | 2859             | 0     | MECHANICAL |

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

| UNFACTORED REACTIONS |          | 1ST LOOSE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|----------|-----------|------------------------------|
| JT                   | COMBINED | SNOW      | LIVE                         |
| F                    | 1348     | 916 / 0   | 0 / 0                        |
| D                    | 2015     | 1359 / 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 = 5.59 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| F-A    | -1877 / 0                 | A-E   | 0 / 2380                  |
| A-B    | -2668 / 0                 | E-B   | 0 / 2808                  |
| B-C    | -7 / 0                    | B-D   | -2898 / 0                 |
| D-C    | -120 / 0                  |       |                           |
| F-E    | 0 / 0                     |       |                           |
| E-G    | 0 / 2301                  |       |                           |
| G-D    | 0 / 2301                  |       |                           |

| FACTORED CONCENTRATED LOADS (LBS) |        | FACE  | DIR.  | TYPE | HEEL | CONN. |
|-----------------------------------|--------|-------|-------|------|------|-------|
| JT                                | LOC.   | LC1   | MAX-  | MAX+ |      |       |
| E                                 | 3-0-0  | -2737 | -2737 | ---  | BACK | VERT  |
| G                                 | 4-11-4 | -1388 | -1388 | ---  | BACK | VERT  |

**CONNECTION REQUIREMENTS**

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

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 38.0 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, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/989 (0.02")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TO=0.10/1.00 (A-F:1), BC=0.49/1.00 (D-E:1), WB=0.38/1.00 (B-D:1), SS=0.33/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

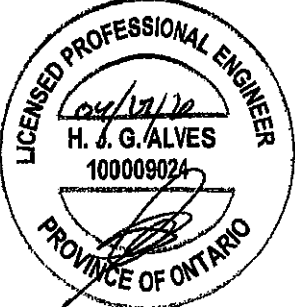
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 768 1987 1685

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.84 (B) (INPUT = 0.90)  
JSI METAL=0.44 (E) (INPUT = 1.00)



Structural component only  
DWG# T-2007161 1/2

CONTINUED ON PAGE 2

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408169                          | T33        | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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**PLATES (table in inches)**

| JT TYPE  | PLATES | W   | LEN | Y | X |
|----------|--------|-----|-----|---|---|
| F BMV1+p | MT20   | 3.0 | 6.0 |   |   |

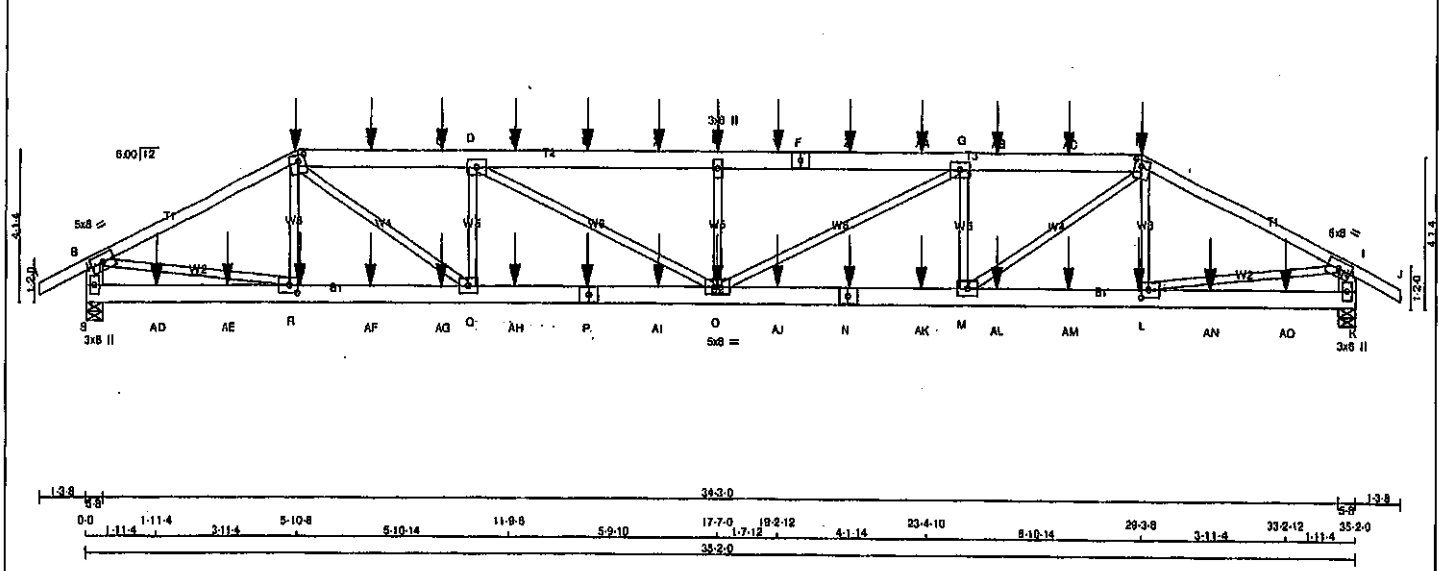
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.



Structural component only  
DWG# T-2007161 3/2

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | ORWG NO. |
|----------|------------|----------|-----|------------------|----------|
| 408170   | T40        | 1        | 2   | GREEN PARK HOMES |          |

|                                                                       |                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Tamarack Roof Truss, Burlington                                       | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 26 13:02:15 2020 Page 1 |
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| LUMBER          | N. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER | DESCR. |
|-----------------|-------------------|--------|------|-----|--------|--------|
| A - C           | 2x4               | DRY    | No.2 | SPF |        |        |
| O - F           | 2x8               | DRY    | No.2 | SPF |        |        |
| F - H           | 2x8               | DRY    | No.2 | SPF |        |        |
| H - J           | 2x8               | DRY    | No.2 | SPF |        |        |
| S - B           | 2x8               | DRY    | No.2 | SPF |        |        |
| K - I           | 2x8               | DRY    | No.2 | SPF |        |        |
| S - P           | 2x8               | DRY    | No.2 | SPF |        |        |
| P - N           | 2x8               | DRY    | No.2 | SPF |        |        |
| N - K           | 2x8               | DRY    | No.2 | SPF |        |        |
| ALL WEBS EXCEPT | 2x3               | DRY    | No.2 | SPF |        |        |

DRY: SEASONED LUMBER.

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

CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A-C 1 12 SIDE (81.0)

H-J 1 12 SIDE (81.0)

C-F 2 12 SIDE (81.0)

F-H 2 12 SIDE (81.0)

S-B 2 12 TOP

K-I 2 12 TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

S-P 2 12 SIDE (183.1)

P-N 2 12 SIDE (183.1)

N-K 2 12 SIDE (183.1)

WEBS : (0.122"x3") SPIRAL NAILS

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.



Structural component only  
DWG# T-2007168 1/L

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 |
| S        | 3331           | 0                | 3331  | 0    |
| K        | 3331           | 0                | 3331  | 0    |

| UNFACTORED REACTIONS | 1ST LOASE | MAX/MIN  | COMPONENT REACTIONS |
|----------------------|-----------|----------|---------------------|
|                      | COMBINED  | SNOW     | LIVE                |
| S                    | 2358      | 1544 / 0 | 0 / 0               |
| K                    | 2358      | 1544 / 0 | 0 / 0               |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 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.

| LOADING       | TOTAL LOAD CASES: (4) |
|---------------|-----------------------|
| CHORDS        | WEBS                  |
| MEMB.         | MEMB.                 |
| MAX. FACTORED | MAX. FACTORED         |
| FORCE         | FORCE                 |
| (LBS)         | (LBS)                 |
| VERT. LOAD    | VERT. LOAD            |
| LC1           | LC1                   |
| MAX           | MAX                   |
| CS1 (LC)      | CS1 (LC)              |
| UNBRAC        | UNBRAC                |
| LENGTH        | LENGTH                |
| FR-TO         | FR-TO                 |
| A-B           | 0 / 28                |
| B-C           | -5089 / 0             |
| C-T           | -8976 / 0             |
| T-U           | -8976 / 0             |
| U-D           | -8976 / 0             |
| D-V           | -8155 / 0             |
| V-W           | -8155 / 0             |
| W-X           | -8155 / 0             |
| X-E           | -8155 / 0             |
| E-Y           | -8155 / 0             |
| Y-F           | -8155 / 0             |
| F-Z           | -8155 / 0             |
| Z-AA          | -8155 / 0             |
| AA-G          | -8155 / 0             |
| G-AB          | -8976 / 0             |
| AB-AC         | -8976 / 0             |
| AC-H          | -8976 / 0             |
| H-I           | -5089 / 0             |
| I-J           | 0 / 28                |
| J-B           | -3250 / 0             |
| K-I           | -3250 / 0             |
| SAD           | 0 / 0                 |
| AD-AE         | 0 / 0                 |
| AE-R          | 0 / 0                 |
| RAF           | 0 / 4557              |
| AF-AG         | 0 / 4557              |
| AG-O          | 0 / 4557              |
| O-AH          | 0 / 8976              |
| AH-P          | 0 / 8976              |
| P-AI          | 0 / 8976              |
| AI-O          | 0 / 8976              |
| O-AJ          | 0 / 8976              |
| AJ-N          | 0 / 8976              |
| N-AK          | 0 / 8976              |
| AK-M          | 0 / 8976              |
| M-AL          | 0 / 4557              |
| AL-AM         | 0 / 4557              |
| AM-L          | 0 / 4557              |
| L-AN          | 0 / 0                 |
| AN-AO         | 0 / 0                 |
| AO-K          | 0 / 0                 |

TOTAL WEIGHT = 2 X 169 = 338 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCO 2010, NBCO 2012, ABC 2010
- PART 9 OF NBCO 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.17')

CALCULATED VERT. DEFL. (LL) = U/999 (0.21')

ALLOWABLE DEFL. (TL) = L/360 (1.17')

CALCULATED VERT. DEFL. (TL) = U/999 (0.39')

CSI: TC=0.52/1.00 (B-C:1), SC=0.52/1.00 (O-Q:1), WB=0.57/1.00 (B-R:1), SS=0.19/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 384 1867 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.67 (P) (INPUT = 1.00)

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | T40        | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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# PLATES (tablets in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-I | MT20   | 5.0 | 8.0 |      |      |
| C  | TTWW+m | MT20   | 5.0 | 8.0 | 2.00 | 2.25 |
| D  | TMVW-I | MT20   | 5.0 | 8.0 |      |      |
| E  | TMVW+u | MT20   | 3.0 | 8.0 |      |      |
| F  | TS-I   | MT20   | 5.0 | 8.0 |      |      |
| G  | TMVW-I | MT20   | 5.0 | 8.0 |      |      |
| H  | TTWW+m | MT20   | 5.0 | 8.0 | 2.00 | 2.25 |
| I  | TMVW-I | MT20   | 5.0 | 8.0 |      |      |
| K  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |
| L  | BMVW-I | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| M  | BMVW-I | MT20   | 5.0 | 8.0 |      |      |
| N  | BS-I   | MT20   | 5.0 | 8.0 |      |      |
| O  | BMVW-I | MT20   | 5.0 | 8.0 |      |      |
| P  | BS-I   | MT20   | 5.0 | 8.0 |      |      |
| Q  | BMVW-I | MT20   | 5.0 | 8.0 |      |      |
| R  | BMVW-I | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| S  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |

## FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| C  | 5-10-8  | -437 | -437 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| E  | 17-7-0  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| H  | 29-3-8  | -437 | -437 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L  | 29-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 21-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 17-7-0  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 13-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 5-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 7-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 9-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 11-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W  | 13-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X  | 15-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y  | 19-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z  | 21-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 23-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 25-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC | 27-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 1-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 3-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 7-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 9-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 11-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 15-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 19-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 23-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 25-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AM | 27-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AN | 31-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AO | 33-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

## CONNECTION REQUIREMENTS

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



Structural component only  
DWG# T-2007168



|                    |                    |               |          |                               |          |
|--------------------|--------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408170 | TRUSS NAME<br>T40Z | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|--------------------|---------------|----------|-------------------------------|----------|

Tamarack Roof Truss, Burlington

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**PLATES (table in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | 2.00 | 3.50 |
| C  | TTWW+m | MT20   | 6.0 | 9.0 | Edge |      |
| D  | TMWW-l | MT20   | 5.0 | 8.0 |      |      |
| E  | TMW+w  | MT20   | 3.0 | 6.0 |      |      |
| F  | TS-l   | MT20   | 5.0 | 6.0 |      |      |
| G  | TMWW-l | MT20   | 5.0 | 6.0 |      |      |
| H  | TTWW+m | MT20   | 8.0 | 9.0 | Edge |      |
| I  | TMVW-p | MT20   | 5.0 | 8.0 | 2.00 | 3.50 |
| K  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| L  | BMWW-l | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| M  | BMWW+l | MT20   | 8.0 | 9.0 | 4.50 | 2.50 |
| N  | BS-l   | MT20   | 5.0 | 8.0 |      |      |
| O  | BMWW-l | MT20   | 5.0 | 8.0 |      |      |
| P  | BS-l   | MT20   | 5.0 | 8.0 |      |      |
| Q  | BMWW+l | MT20   | 6.0 | 9.0 | 4.50 | 2.50 |
| R  | BMWW-l | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| S  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

**CONNECTION REQUIREMENTS**

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

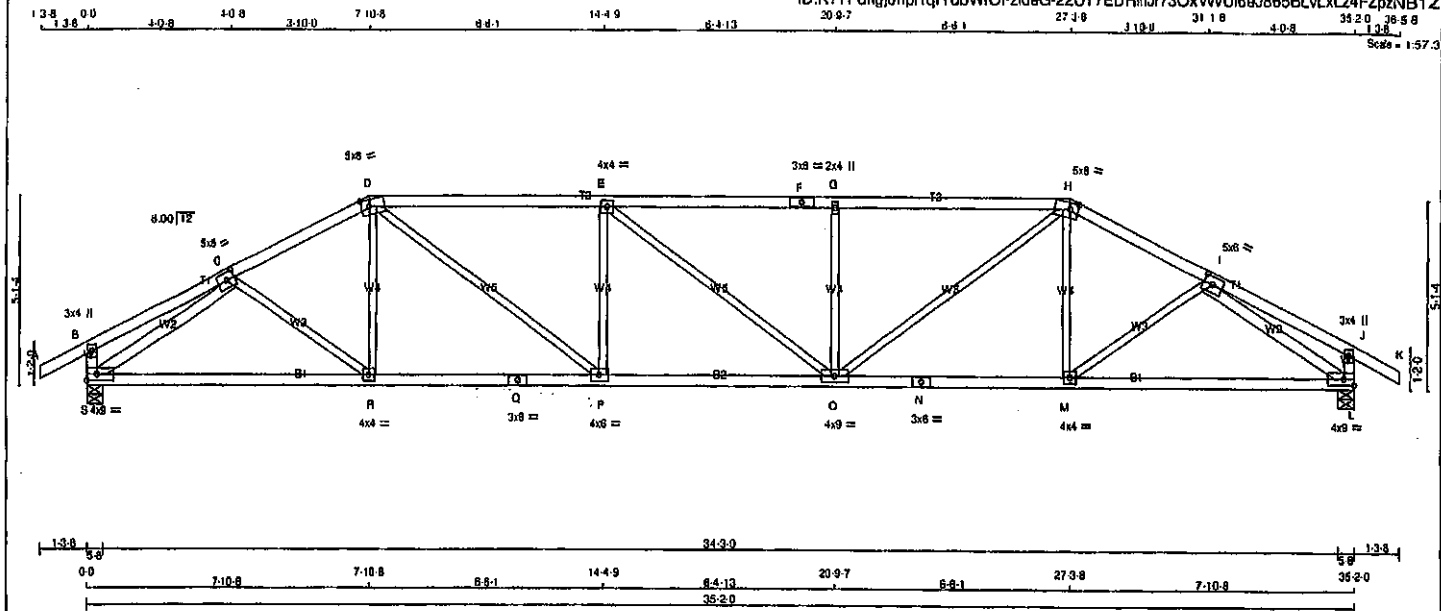


Structural component only  
DWG# T-2007169

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170   | T41        | 2        | 1   | GREEN PARK HOMES |          |

Tambrack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 139 = 278 lb

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) | JT TYPE | PLATES | W   | LEN  | Y    | X    |
|--------------------------|---------|--------|-----|------|------|------|
| B TMV-p                  | MT20    | 3.0    | 4.0 |      |      |      |
| C TMVW-i                 | MT20    | 5.0    | 8.0 | 2.50 | 2.75 |      |
| D TTWW-m                 | MT20    | 5.0    | 8.0 | 2.25 | 2.75 |      |
| E TMVW-i                 | MT20    | 4.0    | 4.0 |      |      |      |
| F TS-i                   | MT20    | 3.0    | 8.0 |      |      |      |
| G TMVW-w                 | MT20    | 2.0    | 4.0 |      |      |      |
| H TTWW-m                 | MT20    | 5.0    | 8.0 | 2.25 | 2.75 |      |
| I TMVW-i                 | MT20    | 5.0    | 8.0 | 2.50 | 2.75 |      |
| J TMV-p                  | MT20    | 3.0    | 4.0 |      |      |      |
| L BMVW-i                 | MT20    | 4.0    | 9.0 |      |      | Edge |
| M BMVW-i                 | MT20    | 4.0    | 4.0 |      |      |      |
| N SS-i                   | MT20    | 3.0    | 8.0 |      |      |      |
| O BMVW-w                 | MT20    | 4.0    | 9.0 |      |      |      |
| P BMVW-i                 | MT20    | 4.0    | 8.0 |      |      |      |
| Q SS-i                   | MT20    | 3.0    | 8.0 |      |      |      |
| R BMVW-i                 | MT20    | 4.0    | 4.0 |      |      |      |
| S BMVW-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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQD |
|----------|-------------------------|---------------------------------|-------|------|
| JT       | VERT                    | HORZ                            | DOWN  | HORZ |
| S        | 2063                    | 0                               | 0     | 5-8  |
| L        | 2063                    | 0                               | 0     | 5-8  |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|---------|-------|------------|-------|---------|-------|
| S  | 1457      | 969 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |
| L  | 1457      | 969 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.94 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                                 |                                 |                 |                          | WEBS  |                                 |                 |          |  |  |  |
|--------|---------------------------------|---------------------------------|-----------------|--------------------------|-------|---------------------------------|-----------------|----------|--|--|--|
| MEMB.  | MAX. FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | LC1<br>CSI (LC) | MAX.<br>UNBRAC<br>LENGTH | MEMB. | MAX. FACTORED<br>FORCE<br>(LBS) | MAX<br>CSI (LC) |          |  |  |  |
| FR-TO  |                                 | FROM TO                         |                 |                          | FR-TO |                                 |                 |          |  |  |  |
| A-B    | 0 / 28                          | -91.8                           | -91.8           | 0.12 (1)                 | 10.00 | C-R                             | 0 / 93          | 0.03 (4) |  |  |  |
| B-C    | 0 / 16                          | -91.8                           | -91.8           | 0.20 (1)                 | 10.00 | R-D                             | 0 / 121         | 0.04 (4) |  |  |  |
| C-D    | -2799 / 0                       | -91.8                           | -91.8           | 0.32 (1)                 | 3.88  | D-P                             | 0 / 1267        | 0.29 (1) |  |  |  |
| D-E    | -3508 / 0                       | -91.8                           | -91.8           | 0.86 (1)                 | 2.94  | P-E                             | -843 / 0        | 0.25 (1) |  |  |  |
| E-F    | -3507 / 0                       | -91.8                           | -91.8           | 0.93 (1)                 | 2.94  | E-O                             | -2 / 0          | 0.00 (1) |  |  |  |
| F-G    | -3507 / 0                       | -91.8                           | -91.8           | 0.93 (1)                 | 2.94  | O-G                             | -843 / 0        | 0.25 (1) |  |  |  |
| G-H    | -3507 / 0                       | -91.8                           | -91.8           | 0.94 (1)                 | 2.95  | O-H                             | 0 / 1266        | 0.28 (1) |  |  |  |
| H-I    | -2799 / 0                       | -91.8                           | -91.8           | 0.32 (1)                 | 3.88  | M-H                             | 0 / 121         | 0.04 (4) |  |  |  |
| I-J    | 0 / 16                          | -91.8                           | -91.8           | 0.20 (1)                 | 10.00 | M-I                             | 0 / 93          | 0.03 (4) |  |  |  |
| J-K    | 0 / 28                          | -91.8                           | -91.8           | 0.12 (1)                 | 10.00 | S-C                             | -2974 / 0       | 0.83 (1) |  |  |  |
| S-B    | -270 / 0                        | 0.0                             | 0.0             | 0.03 (1)                 | 7.81  | I-L                             | -2974 / 0       | 0.83 (1) |  |  |  |
| L-J    | -270 / 0                        | 0.0                             | 0.0             | 0.03 (1)                 | 7.81  |                                 |                 |          |  |  |  |
|        |                                 |                                 |                 |                          |       |                                 |                 |          |  |  |  |
| S-R    | 0 / 2417                        | -18.5                           | -18.5           | 0.53 (1)                 | 10.00 |                                 |                 |          |  |  |  |
| R-Q    | 0 / 2489                        | -18.5                           | -18.5           | 0.54 (1)                 | 10.00 |                                 |                 |          |  |  |  |
| Q-P    | 0 / 2489                        | -18.5                           | -18.5           | 0.54 (1)                 | 10.00 |                                 |                 |          |  |  |  |
| P-O    | 0 / 3509                        | -18.5                           | -18.5           | 0.64 (1)                 | 10.00 |                                 |                 |          |  |  |  |
| O-N    | 0 / 2489                        | -18.5                           | -18.5           | 0.54 (1)                 | 10.00 |                                 |                 |          |  |  |  |
| N-M    | 0 / 2489                        | -18.5                           | -18.5           | 0.54 (1)                 | 10.00 |                                 |                 |          |  |  |  |
| M-L    | 0 / 2417                        | -18.5                           | -18.5           | 0.53 (1)                 | 10.00 |                                 |                 |          |  |  |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |        |     |
|------------|--------|-----|
| TOP CH. LL | = 25.6 | PSF |
| DL         | = 8.0  | PSF |
| BOT CH. LL | = 0.0  | PSF |
| DL         | = 7.4  | PSF |
| TOTAL LOAD | = 38.0 | 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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.41")

CSI: TC=0.95/1.00 (D-E), BC=0.84/1.00 (O-P),  
WB=0.93/1.00 (I-L), SS=0.28/1.00 (D-E)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR | SECTION |
|-----------------|-------|---------|
| (PSI)           | (PL)  | (PL)    |
| MAX             | MIN   | MAX     |
| MT20            | 818   | 354     |
|                 | 1697  | 788     |
|                 | 1997  | 1856    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (L) (INPUT = 0.90)  
JSI METAL = 0.77 (N) (INPUT = 1.00)



Structural component only  
DWG# T-2007170

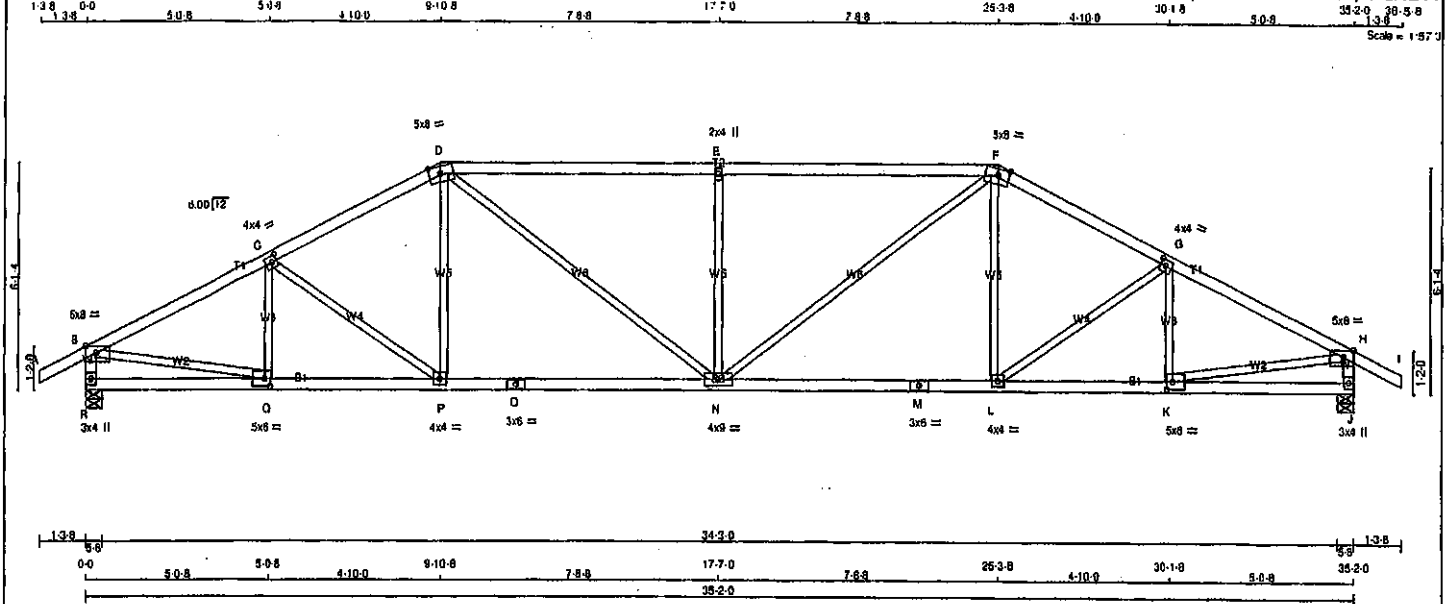
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408170   | T42        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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ID:K?TPdngi0npl1q1YdbWIOFzIdeG-WE2rKaEwWz9THdaVEQJEKBSUWUW4PP4adqo5FzNB1Y

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



TOTAL WEIGHT = 2 X 139 = 277 lb (MT/F)

| 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   |
| I - B             | 2x4    | DRY  | No.2   |
| J - H             | 2x4    | DRY  | No.2   |
| R - O             | 2x4    | DRY  | No.2   |
| O - M             | 2x4    | DRY  | No.2   |
| M - J             | 2x4    | DRY  | No.2   |
| ALL WEBS EXCEPT   | 2x3    | DRY  | No.2   |

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| D  | TMWW-I | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| G  | TTWW-m | MT20   | 5.0 | 8.0 | 2.25 | 3.75 |
| E  | TMW-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW-m | MT20   | 5.0 | 8.0 | 2.25 | 3.75 |
| G  | TMWW-I | 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  | BMWW-I | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| L  | BMWW-I | MT20   | 4.0 | 4.0 |      |      |
| M  | BS-I   | MT20   | 3.0 | 8.0 |      |      |
| N  | BMWW-I | MT20   | 4.0 | 9.0 |      |      |
| O  | BS-I   | MT20   | 3.0 | 8.0 |      |      |
| P  | BMWW-I | MT20   | 4.0 | 4.0 |      |      |
| Q  | BMWW-I | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| R  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |

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

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

##### BEARINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| R  | 2063           | 0                | 2063  | 0    |
| J  | 2063           | 0                | 2063  | 0    |

##### UNFACTORED REACTIONS

| JT | 1ST LOOSE | MAX. MIN. COMPONENT REACTIONS |       |            |       |         |       |
|----|-----------|-------------------------------|-------|------------|-------|---------|-------|
|    | COMBINED  | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| R  | 1457      | 989 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |
| J  | 1457      | 989 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.78 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 / 28                    | -91.8                     | -91.8 0.12 (1) | 10.00 | Q-C                       | -363 / 0      | 0.08 (1) |
| B-C    | -2834 / 0                 | -91.8                     | -91.8 0.39 (1) | 3.81  | C-P                       | -210 / 0      | 0.13 (1) |
| C-D    | -2887 / 0                 | -91.8                     | -91.8 0.37 (1) | 3.91  | P-D                       | 0 / 248       | 0.08 (4) |
| D-E    | -3080 / 0                 | -91.8                     | -91.8 0.97 (1) | 2.78  | D-N                       | 0 / 844       | 0.19 (1) |
| E-F    | -3080 / 0                 | -91.8                     | -91.8 0.97 (1) | 2.78  | N-E                       | -872 / 0      | 0.51 (1) |
| F-G    | -2887 / 0                 | -91.8                     | -91.8 0.37 (1) | 3.91  | N-F                       | 0 / 844       | 0.06 (4) |
| G-H    | -2834 / 0                 | -91.8                     | -91.8 0.39 (1) | 3.81  | L-F                       | 0 / 248       | 0.08 (4) |
| H-I    | 0 / 28                    | -91.8                     | -91.8 0.12 (1) | 10.00 | L-G                       | -210 / 0      | 0.13 (1) |
| R-B    | -2018 / 0                 | 0.0                       | 0.0 0.20 (1)   | 5.94  | K-G                       | -363 / 0      | 0.08 (1) |
| J-H    | -2018 / 0                 | 0.0                       | 0.0 0.20 (1)   | 5.94  | B-Q                       | 0 / 2591      | 0.58 (1) |
| R-Q    | 0 / 0                     | -18.5                     | -18.5 0.10 (4) | 10.00 | K-H                       | 0 / 2591      | 0.58 (1) |
| Q-P    | 0 / 2555                  | -18.5                     | -18.5 0.51 (1) | 10.00 |                           |               |          |
| P-O    | 0 / 2388                  | -18.5                     | -18.5 0.49 (1) | 10.00 |                           |               |          |
| O-N    | 0 / 2388                  | -18.5                     | -18.5 0.49 (1) | 10.00 |                           |               |          |
| N-M    | 0 / 2388                  | -18.5                     | -18.5 0.49 (1) | 10.00 |                           |               |          |
| M-L    | 0 / 2388                  | -18.5                     | -18.5 0.49 (1) | 10.00 |                           |               |          |
| L-K    | 0 / 2555                  | -18.5                     | -18.5 0.51 (1) | 10.00 |                           |               |          |
| K-J    | 0 / 0                     | -18.5                     | -18.5 0.10 (4) | 10.00 |                           |               |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|         |             |     |
|---------|-------------|-----|
| TOP CH. | LL = 25.6   | PSF |
|         | DL = 8.0    | PSF |
| BOT CH. | LL = 0.0    | PSF |
|         | DL = 7.4    | PSF |
| TOTAL   | LOAD = 39.0 | PSF |

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2016

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 085-14
- TPIC 2011, TPIC 2014

(58 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (1.17")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.17")  
ALLOWABLE DEFL.(TL) =  $L/360$  (1.17")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.34")

CSI: TC=0.97/1.00 (D-E:1), BC=0.51/1.00 (P-Q:1),  
WB=0.59/1.00 (B-Q:1), SS=0.34/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

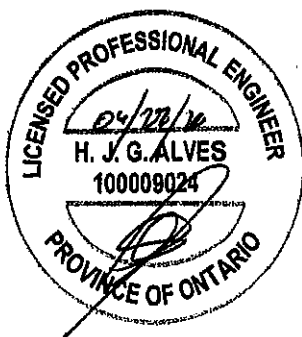
##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR   | SECTION  |
|-----------------|---------|----------|
| (PS)            | (PL)    | (PL)     |
| MAX MIN         | MAX MIN | MAX MIN  |
| MT20            | 818 354 | 1687 788 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.87 (F) (INPUT = 0.90)  
JSI METAL=0.75 (M) (INPUT = 1.00)



Structural component only  
DWG# T-2007171

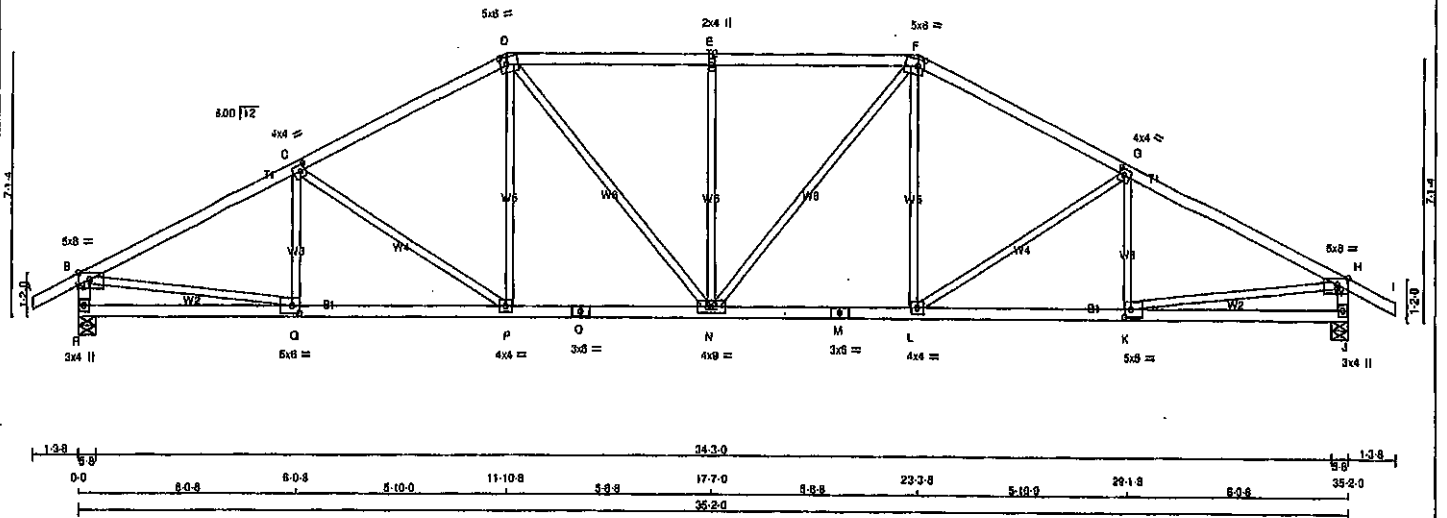
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408170   | T43        | 2        | 1   | TRUSS DESC. |                  |          |

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ID:K?TPdngj0npl1qYdbWfOFzIdaG-QcEYwFYtHhZ04RCm3xxynXkjmWqOpsVEoH2LdizNB1X

1.38 0.0 6.08 8.08 11.10.8 17.7.0 23.3.8 29.1.8 35.2.0 35.2.0 1.38  
1.38 0.0 6.08 8.08 11.10.8 17.7.0 23.3.8 29.1.8 35.2.0 35.2.0 1.38  
Scale = 1:97.0



TOTAL WEIGHT = 2 X 145 = 289 lb

| CHORDS          | SIZE | LUMBER | DESCR. |
|-----------------|------|--------|--------|
| A - D           | 2x4  | DRY    | No.2   |
| D - F           | 2x4  | DRY    | No.2   |
| F - I           | 2x4  | DRY    | No.2   |
| I - B           | 2x4  | DRY    | No.2   |
| J - H           | 2x4  | DRY    | No.2   |
| R - O           | 2x4  | DRY    | No.2   |
| O - M           | 2x4  | DRY    | No.2   |
| M - J           | 2x4  | DRY    | No.2   |
| ALL WEBS EXCEPT | 2x3  | DRY    | No.2   |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | TYPE     | SIZE | W   | LEN | Y    | X    |
|-----------------------------|----------|------|-----|-----|------|------|
| B                           | TMVW-p   | MT20 | 5.0 | 8.0 | Edge | 3.50 |
| C                           | TMVW-l   | MT20 | 4.0 | 4.0 | 2.00 | 1.75 |
| D                           | TTWW-m   | MT20 | 5.0 | 6.0 | 2.25 | 2.00 |
| E                           | TMVW-w   | MT20 | 2.0 | 4.0 |      |      |
| F                           | TTWW-m   | MT20 | 5.0 | 6.0 | 2.25 | 2.00 |
| G                           | TMVW-l   | 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-l   | MT20 | 5.0 | 8.0 | 2.50 | 2.25 |
| L                           | BMVW-l   | MT20 | 4.0 | 4.0 |      |      |
| M                           | BS-l     | MT20 | 3.0 | 6.0 |      |      |
| N                           | BMVW-w-l | MT20 | 4.0 | 9.0 |      |      |
| O                           | BS-l     | MT20 | 3.0 | 6.0 |      |      |
| P                           | BMVW-l   | MT20 | 4.0 | 4.0 |      |      |
| Q                           | BMVW-l   | MT20 | 5.0 | 8.0 | 2.50 | 2.25 |
| R                           | BMV1+p   | MT20 | 3.0 | 4.0 |      |      |

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

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

| FACTORED       | MAXIMUM FACTORED | INPUT  | REQD  |
|----------------|------------------|--------|-------|
| GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| JT VERT        | DOWN             | UPLIFT | IN-SX |
| R 2083         | 0                | 2083   | 0     |
| J 2083         | 0                | 2083   | 0     |

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |      |
|----------|----------|-------------------------------|-------|-----------|-------|---------|------|
| JT       | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL |
| R        | 1457     | 969 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0    |
| J        | 1457     | 969 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0    |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 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    |              |                    |       |                           |              |  |
| A-B    | 0 / 28                    | -91.8                     | -91.8 | 0.12 (1)     | 10.00              | Q-C   | -285 / 12                 | 0.07 (1)     |  |
| B-C    | -2889 / 0                 | -91.8                     | -91.8 | 0.58 (1)     | 3.58               | C-P   | -435 / 0                  | 0.42 (1)     |  |
| C-D    | -2639 / 0                 | -91.8                     | -91.8 | 0.52 (1)     | 3.83               | P-D   | 0 / 350                   | 0.08 (1)     |  |
| D-E    | -2559 / 0                 | -91.8                     | -91.8 | 0.48 (1)     | 3.85               | D-N   | 0 / 462                   | 0.11 (1)     |  |
| E-F    | -2559 / 0                 | -91.8                     | -91.8 | 0.48 (1)     | 3.85               | N-E   | -841 / 0                  | 0.56 (1)     |  |
| F-G    | -2539 / 0                 | -91.8                     | -91.8 | 0.82 (1)     | 3.83               | N-F   | 0 / 462                   | 0.11 (1)     |  |
| G-H    | -2889 / 0                 | -91.8                     | -91.8 | 0.58 (1)     | 3.58               | L-F   | 0 / 350                   | 0.08 (1)     |  |
| H-I    | 0 / 28                    | -91.8                     | -91.8 | 0.12 (1)     | 10.00              | L-G   | -435 / 0                  | 0.42 (1)     |  |
| R-B    | -2014 / 0                 | 0.0                       | 0.0   | 0.20 (1)     | 5.95               | K-G   | -255 / 12                 | 0.07 (1)     |  |
| J-H    | -2014 / 0                 | 0.0                       | 0.0   | 0.20 (1)     | 5.95               | B-Q   | 0 / 2835                  | 0.59 (1)     |  |
|        |                           |                           |       |              |                    | K-H   | 0 / 2835                  | 0.59 (1)     |  |
| R-Q    | 0 / 0                     | -18.5                     | -18.5 | 0.15 (4)     | 10.00              |       |                           |              |  |
| Q-P    | 0 / 2809                  | -18.5                     | -18.5 | 0.49 (1)     | 10.00              |       |                           |              |  |
| P-O    | 0 / 2249                  | -18.5                     | -18.5 | 0.43 (1)     | 10.00              |       |                           |              |  |
| O-N    | 0 / 2249                  | -18.5                     | -18.5 | 0.43 (1)     | 10.00              |       |                           |              |  |
| N-M    | 0 / 2249                  | -18.5                     | -18.5 | 0.43 (1)     | 10.00              |       |                           |              |  |
| M-L    | 0 / 2249                  | -18.5                     | -18.5 | 0.43 (1)     | 10.00              |       |                           |              |  |
| L-K    | 0 / 2809                  | -18.5                     | -18.5 | 0.49 (1)     | 10.00              |       |                           |              |  |
| K-J    | 0 / 0                     | -18.5                     | -18.5 | 0.15 (4)     | 10.00              |       |                           |              |  |

#### DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 8 OF NBCO 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")

CALCULATED VERT. DEFL.(LL) = L/999 (0.15")

ALLOWABLE DEFL.(TL) = L/360 (1.17")

CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.58/1.00 (B-C:1), BC=0.49/1.00 (P-Q:1),

WB=0.59/1.00 (B-Q:1), SS=0.25/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR   | SECTION  |
|-----------------|---------|----------|
| (PSI)           | (PLI)   | (PLI)    |
| MAX MIN         | MAX MIN | MAX MIN  |
| MT20            | 816 354 | 1687 768 |
|                 | 1987    | 1658     |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

JSI METAL = 0.89 (M) (INPUT = 1.00)



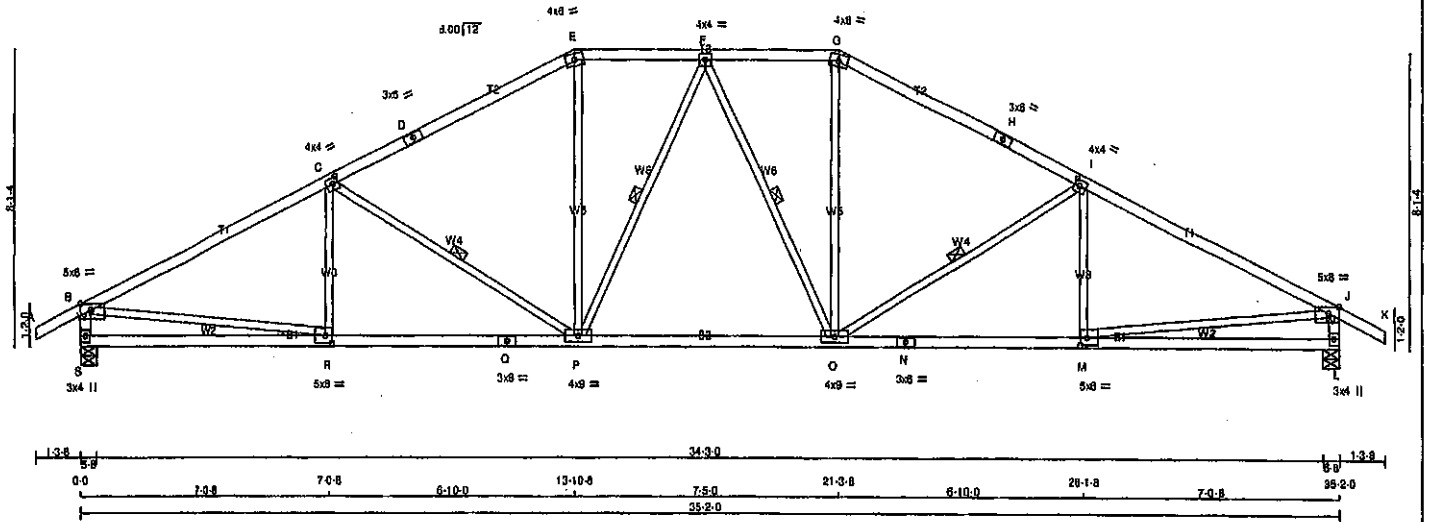
Structural component only  
DWG# T-2007172

|                    |                   |               |          |                               |          |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408170 | TRUSS NAME<br>T44 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|

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ID:K7TPdhg|Dnpl1q|YdbWIOFzIdG-SdAc|GGA2a5ibnyo|SBKIGrDK9|YJhN1xJv98zNB1W

Scale = 1:50.0



TOTAL WEIGHT = 2 X 145 = 291 lb

| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - D             | 2x4    | DRY  | No.2   |
| D - E             | 2x4    | DRY  | No.2   |
| E - G             | 2x4    | DRY  | No.2   |
| G - H             | 2x4    | DRY  | No.2   |
| H - K             | 2x4    | DRY  | No.2   |
| S - B             | 2x4    | DRY  | No.2   |
| L - J             | 2x4    | DRY  | No.2   |
| S - Q             | 2x4    | DRY  | No.2   |
| Q - N             | 2x4    | DRY  | No.2   |
| N - L             | 2x4    | DRY  | No.2   |

ALL WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |     |               |
|-----------------------------|--------|--------|-----|---------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X       |
| B                           | TMWV-p | MT20   | 5.0 | 8.0 Edge 3.50 |
| C                           | TMWW-t | MT20   | 4.0 | 4.0 2.00 1.75 |
| D                           | TS-t   | MT20   | 3.0 | 8.0           |
| E                           | TTW-m  | MT20   | 4.0 | 8.0           |
| F                           | TMWW-t | MT20   | 4.0 | 4.0           |
| G                           | TTW-m  | MT20   | 4.0 | 8.0           |
| H                           | TS-t   | MT20   | 3.0 | 8.0           |
| I                           | TMWW-t | MT20   | 4.0 | 4.0 2.00 1.75 |
| J                           | TMWV-p | MT20   | 5.0 | 8.0 Edge 3.50 |
| L                           | BMV1+p | MT20   | 3.0 | 4.0           |
| M                           | BMWW-t | MT20   | 5.0 | 8.0 2.50 2.25 |
| N                           | BS-t   | MT20   | 3.0 | 8.0           |
| O                           | BMWW-t | MT20   | 4.0 | 8.0           |
| P                           | BMWW-t | MT20   | 4.0 | 8.0           |
| Q                           | BS-t   | MT20   | 3.0 | 8.0           |
| R                           | BMWW-t | MT20   | 5.0 | 8.0 2.50 2.25 |
| S                           | BMV1+p | MT20   | 3.0 | 4.0           |

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

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

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG |       | REQRD BRG |       |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|-------|-----------|-------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX | IN-SX     | IN-SX |
| S        | 2083 | 0                       | 2083 | 0                               | 0      | 5-8       | 5-8   |           |       |
| L        | 2083 | 0                       | 2083 | 0                               | 0      | 5-8       | 5-8   |           |       |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |       |            |       |         |       |
|-----------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| S         | 1457     | 989 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |
| L         | 1457     | 989 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 488 / 0 | 0 / 0 |

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

#### BRACING

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-P, F-P, F-O, I-O.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                  |                           | WEBS  |                           |                           |                           |
|--------|---------------------------|------------------|---------------------------|-------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. UNBRACED LENGTH (FT) |
| FR-TO  |                           |                  |                           | FR-TO |                           |                           |                           |
| A-B    | 0 / 28                    | -91.8            | -91.8 0.12 (1)            | 10.00 | R-C                       | -182 / 52                 | 0.08 (1)                  |
| B-C    | -2908 / 0                 | -91.8            | -91.8 0.83 (1)            | 3.25  | C-P                       | -637 / 0                  | 0.28 (1)                  |
| C-D    | -2373 / 0                 | -91.8            | -91.8 0.72 (1)            | 3.68  | P-E                       | 0 / 874                   | 0.15 (1)                  |
| D-E    | -2373 / 0                 | -91.8            | -91.8 0.72 (1)            | 3.68  | P-F                       | -222 / 0                  | 0.11 (1)                  |
| E-F    | -2100 / 0                 | -91.8            | -91.8 0.19 (1)            | 4.83  | F-O                       | -222 / 0                  | 0.11 (1)                  |
| F-G    | -2100 / 0                 | -91.8            | -91.8 0.19 (1)            | 4.83  | O-G                       | 0 / 874                   | 0.15 (1)                  |
| G-H    | -2373 / 0                 | -91.8            | -91.8 0.72 (1)            | 3.68  | O-I                       | -837 / 0                  | 0.29 (1)                  |
| H-I    | -2373 / 0                 | -91.8            | -91.8 0.72 (1)            | 3.68  | M-I                       | -182 / 52                 | 0.08 (1)                  |
| I-J    | -2908 / 0                 | -91.8            | -91.8 0.83 (1)            | 3.25  | B-R                       | 0 / 2849                  | 0.80 (1)                  |
| J-K    | 0 / 28                    | -91.8            | -91.8 0.12 (1)            | 10.00 | M-J                       | 0 / 2849                  | 0.80 (1)                  |
| S-B    | -2008 / 0                 | 0.0              | 0.0 0.20 (1)              | 5.98  |                           |                           |                           |
| L-J    | -2008 / 0                 | 0.0              | 0.0 0.20 (1)              | 5.98  |                           |                           |                           |
| S-R    | 0 / 0                     | -18.5            | -18.5 0.20 (4)            | 10.00 |                           |                           |                           |
| R-Q    | 0 / 2830                  | -18.5            | -18.5 0.52 (1)            | 10.00 |                           |                           |                           |
| Q-P    | 0 / 2630                  | -18.5            | -18.5 0.52 (1)            | 10.00 |                           |                           |                           |
| P-O    | 0 / 2193                  | -18.5            | -18.5 0.45 (1)            | 10.00 |                           |                           |                           |
| O-N    | 0 / 2630                  | -18.5            | -18.5 0.52 (1)            | 10.00 |                           |                           |                           |
| N-M    | 0 / 2830                  | -18.5            | -18.5 0.52 (1)            | 10.00 |                           |                           |                           |
| M-L    | 0 / 0                     | -18.5            | -18.5 0.20 (4)            | 10.00 |                           |                           |                           |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 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, NBCG 2010, NBCG 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(85 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.14")  
ALLOWABLE DEFL. (TL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.30")

CSI: TC=0.83/1.00 (B-C:1), BC=0.52/1.00 (P-R:1),  
WB=0.60/1.00 (B-R:1), 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

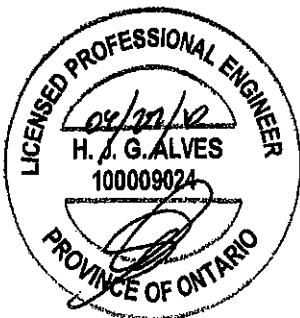
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP (PSI) SHEAR SECTION (PLI) (PLI)  
MAX MIN MAX MIN  
MT20 618 354 1667 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

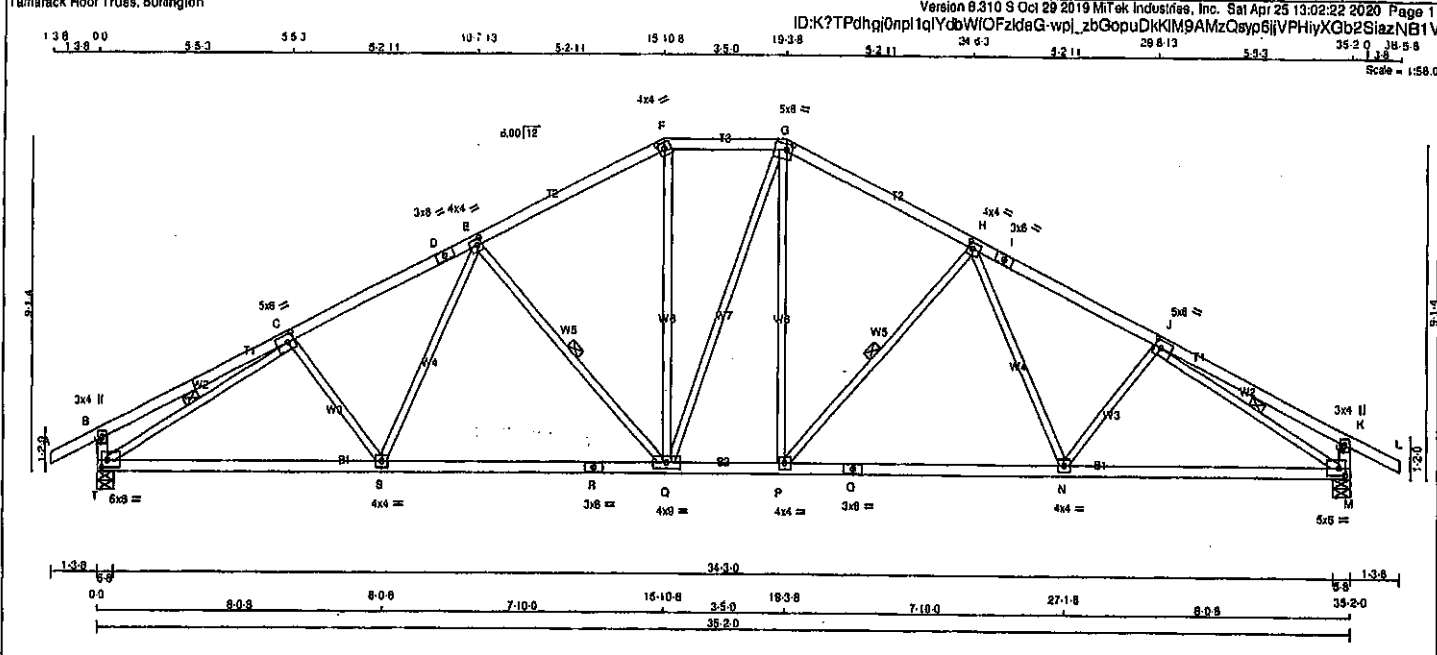
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (M) (INPUT = 0.90)  
JSI METAL = 0.79 (Q) (INPUT = 1.00)



Structural component only  
DWG# T-2007173

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408170</b>       | TRUSS NAME<br><b>T45</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |



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

| CHORDS   | SIZE | LUMBER   | DESCR. |
|----------|------|----------|--------|
| A - D    | 2x4  | DRY No.2 | SPF    |
| D - F    | 2x4  | DRY No.2 | SPF    |
| F - G    | 2x4  | DRY No.2 | SPF    |
| G - I    | 2x4  | DRY No.2 | SPF    |
| I - L    | 2x4  | DRY No.2 | SPF    |
| L - B    | 2x4  | DRY No.2 | SPF    |
| M - K    | 2x4  | DRY No.2 | SPF    |
| T - R    | 2x4  | DRY No.2 | SPF    |
| R - O    | 2x4  | DRY No.2 | SPF    |
| O - M    | 2x4  | DRY No.2 | SPF    |
| ALL WEBS | 2x3  | DRY No.2 | SPF    |

EXCEPT  
DRY: SEASONED LUMBER.

**PLATES (table in inches)**

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C TMWW-1 | MT20   | 5.0 | 8.0 | 2.50 | 2.25 |
| D TS-1   | MT20   | 3.0 | 8.0 |      |      |
| E TMWW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| F TTW-h  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| G TTWW-m | MT20   | 5.0 | 6.0 | 2.00 | 2.00 |
| H TMWW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| I TS-1   | MT20   | 3.0 | 8.0 |      |      |
| J TMWW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| K TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| M BMVW-1 | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| N, P, S  |        |     |     |      |      |
| N BMWW-1 | MT20   | 4.0 | 4.0 |      |      |
| O BS-1   | MT20   | 3.0 | 8.0 |      |      |
| Q BMWW-1 | MT20   | 4.0 | 9.0 |      |      |
| R BS-1   | MT20   | 3.0 | 8.0 |      |      |
| T BMVW-1 | MT20   | 5.0 | 8.0 | 2.25 | 2.00 |

**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 | 2063                    | 0                               | 5-8       | 5-8      |
| T       | 2063                    | 0                               | 5-8       | 5-8      |
| M       | 2063                    | 0                               | 5-8       | 5-8      |

**UNFACTORED REACTIONS**

|             | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |
|-------------|----------|---------|---------------------|
| JT COMBINED | SNOW     | LIVE    | PERM. LIVE          |
| T           | 1457     | 969 / 0 | 0 / 0               |
| M           | 1457     | 969 / 0 | 0 / 0               |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, 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 E-Q, H-P, C-T, 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) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | 0 / 28                    | C-S   | -110 / 37                 |
| B-C    | 0 / 19                    | S-E   | 0 / 278                   |
| C-D    | -2769 / 0                 | E-Q   | -681 / 0                  |
| D-E    | -2769 / 0                 | Q-F   | 0 / 613                   |
| E-F    | -2167 / 0                 | F-G   | 0 / 4                     |
| F-G    | -1925 / 0                 | G-H   | 0 / 609                   |
| G-H    | -2166 / 0                 | H-I   | -682 / 0                  |
| H-I    | -2760 / 0                 | I-J   | 0 / 278                   |
| I-J    | -2760 / 0                 | J-K   | -110 / 37                 |
| J-K    | 0 / 19                    | K-L   | -3040 / 0                 |
| K-L    | 0 / 28                    | L-M   | -3041 / 0                 |
| L-M    | -326 / 0                  | M-K   | 0 / 0                     |
| M-K    | -326 / 0                  |       |                           |
| T-S    | 0 / 2536                  |       |                           |
| S-R    | 0 / 2382                  |       |                           |
| R-Q    | 0 / 2382                  |       |                           |
| Q-P    | 0 / 1924                  |       |                           |
| P-O    | 0 / 2382                  |       |                           |
| O-N    | 0 / 2382                  |       |                           |
| N-M    | 0 / 2537                  |       |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**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 NBC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-08, CSA 088-14  
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")

CSH: TC=0.40/1.00 (H-J:1), BC=0.58/1.00 (M-N:1),  
WB=0.85/1.00 (J-M:1), SS=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1867 1656

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

JSI GRIP= 0.89 (M) (INPUT = 0.90)  
JSI METAL= 0.78 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007174

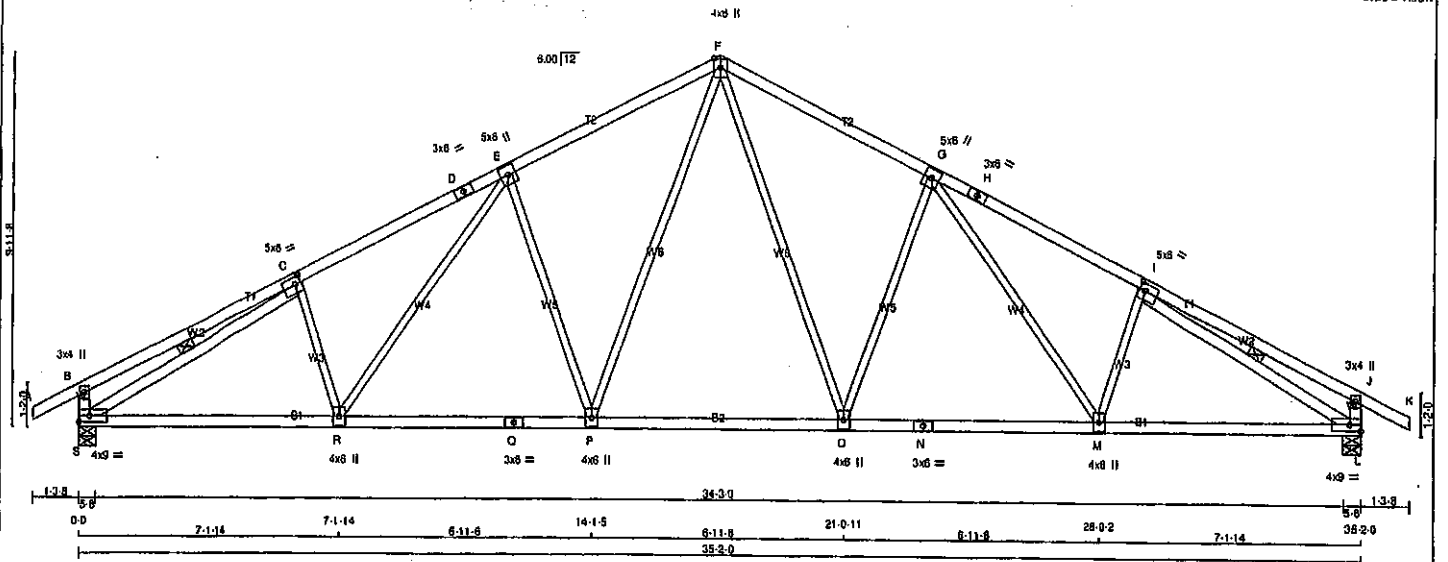
|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170   | T46        | 6        | 1   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

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1.38 0.0 7.1 14 7.1 14 5.1 8 14.1 5 5.1 8 21.0 11 5.1 8 28.0 2 7.1 14 38.2 0



TOTAL WEIGHT = 6 X 152 = 910 lb  
(M/F)

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| JT TYPE                     |      |     |     |           |
| B TMVp                      | MT20 | 3.0 | 4.0 |           |
| C TMWW-I                    | MT20 | 5.0 | 6.0 | 2.25 2.00 |
| D TS-I                      | MT20 | 3.0 | 6.0 |           |
| E TMWW-I                    | MT20 | 5.0 | 6.0 |           |
| F TTWWp                     | MT20 | 4.0 | 6.0 | Edge      |
| G TMWW-I                    | MT20 | 5.0 | 6.0 |           |
| H TS-I                      | MT20 | 3.0 | 6.0 |           |
| I TMWW-I                    | MT20 | 5.0 | 6.0 | 2.25 2.00 |
| J TMVp                      | MT20 | 3.0 | 4.0 |           |
| L BMVV-I                    | MT20 | 4.0 | 6.0 | Edge      |
| M, Q, P, R                  |      |     |     |           |
| N BMWW-I                    | MT20 | 4.0 | 6.0 |           |
| M BS-I                      | MT20 | 3.0 | 6.0 |           |
| Q BS-I                      | MT20 | 3.0 | 6.0 |           |
| S BMVV-I                    | MT20 | 4.0 | 6.0 | 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  |
|----------|----------------|------------------|-------|-------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT       | VERT           | DOWN             | UP    | IN-SX |
| S        | 2063           | 0                | 0     | 5-8   |
| L        | 2063           | 0                | 0     | 5-8   |

#### UNFACTORED REACTIONS

| 1ST LOOSE | MAX/MIN  | COMPONENT REACTIONS |       |           |       |         |       |
|-----------|----------|---------------------|-------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| S         | 1457     | 969 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0 / 0 |
| L         | 1457     | 969 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 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-S, I-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 | MEMB.     | MAX. FACTORED | FACTORED         | MAX      | WEBS  | MEMB. | MAX. FACTORED | FACTORED         | MAX      |
|--------|-----------|---------------|------------------|----------|-------|-------|---------------|------------------|----------|
|        |           | FORCE (LBS)   | VERT. LOAD (PLF) | LC1 (LC) |       |       | FORCE (LBS)   | VERT. LOAD (PLF) | LC1 (LC) |
| FR-TO  |           |               |                  |          | FR-TO |       |               |                  |          |
| A-B    | 0 / 28    | -91.8         | -91.8            | 0.12 (1) | 10.00 | F-O   | 0 / 896       | 0.19 (1)         |          |
| B-C    | 0 / 22    | -91.8         | -91.8            | 0.40 (1) | 10.00 | O-G   | -728 / 0      | 0.72 (1)         |          |
| C-D    | -2808 / 0 | -91.8         | -91.8            | 0.49 (1) | 3.75  | G-M   | 0 / 391       | 0.09 (1)         |          |
| D-E    | -2808 / 0 | -91.8         | -91.8            | 0.49 (1) | 3.75  | M-I   | -192 / 18     | 0.05 (1)         |          |
| E-F    | -2322 / 0 | -91.8         | -91.8            | 0.46 (1) | 4.07  | P-F   | 0 / 896       | 0.19 (1)         |          |
| F-G    | -2322 / 0 | -91.8         | -91.8            | 0.46 (1) | 4.07  | E-P   | -728 / 0      | 0.72 (1)         |          |
| G-H    | -2808 / 0 | -91.8         | -91.8            | 0.49 (1) | 3.75  | R-E   | 0 / 391       | 0.09 (1)         |          |
| H-I    | -2808 / 0 | -91.8         | -91.8            | 0.49 (1) | 3.75  | C-R   | -192 / 18     | 0.05 (1)         |          |
| I-J    | 0 / 22    | -91.8         | -91.8            | 0.40 (1) | 10.00 | S-C   | -3084 / 0     | 0.72 (1)         |          |
| J-K    | 0 / 28    | -91.8         | -91.8            | 0.12 (1) | 10.00 | I-L   | -3084 / 0     | 0.72 (1)         |          |
| S-B    | -344 / 0  | 0.0           | 0.0              | 0.03 (1) | 7.81  |       |               |                  |          |
| L-J    | -344 / 0  | 0.0           | 0.0              | 0.03 (1) | 7.81  |       |               |                  |          |
| S-R    | 0 / 2674  | -18.5         | -18.5            | 0.53 (1) | 10.00 |       |               |                  |          |
| R-Q    | 0 / 2291  | -18.5         | -18.5            | 0.47 (1) | 10.00 |       |               |                  |          |
| Q-P    | 0 / 2291  | -18.5         | -18.5            | 0.47 (1) | 10.00 |       |               |                  |          |
| P-O    | 0 / 1782  | -18.5         | -18.5            | 0.38 (1) | 10.00 |       |               |                  |          |
| O-N    | 0 / 2291  | -18.5         | -18.5            | 0.47 (1) | 10.00 |       |               |                  |          |
| N-M    | 0 / 2291  | -18.5         | -18.5            | 0.47 (1) | 10.00 |       |               |                  |          |
| M-L    | 0 / 2674  | -18.5         | -18.5            | 0.53 (1) | 10.00 |       |               |                  |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF  
OL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2018 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.48/1.00 (G-I:1), BC=0.53/1.00 (R-S:1),  
WB=0.72/1.00 (E-P:1), SS=0.22/1.00 (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 HEELS OFF

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (G) (INPUT = 0.90)  
JSI METAL = 0.77 (I) (INPUT = 1.00)

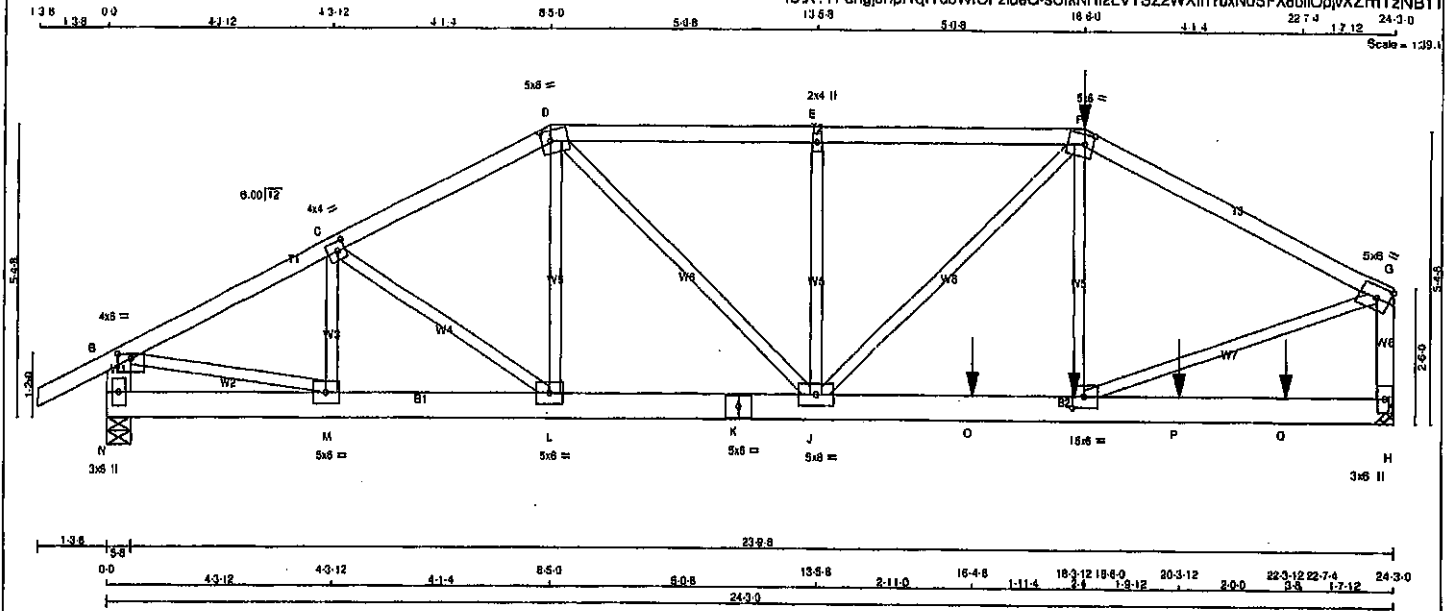


Structural component only  
DWG# T-2007175

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408170   | T47        | 1        | 2   | TRUSS DESC. |                  |          |

Tamareck Roof Truss, Burlington

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IDK?TPdhg0npl1q1YdbWIOFzideG-sCkNH12LVTSZ2WXIn?uxNuSFX8oliOpjXZmTzNB1T



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

ALL WEBS 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 - D 1 12                               | TOP                  |            |
| D - F 1 12                               | SIDE(81.0)           |            |
| F - G 1 12                               | SIDE(81.0)           |            |
| H - G 1 12                               | TOP                  |            |
| N - B 2 12                               | TOP                  |            |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |            |
| N - K 2 12                               | TOP                  |            |
| K - H 2 12                               | SIDE(183.1)          |            |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |            |
| 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.

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 |
| N        | 2120           | 0                | 2120  | 0    |
| H        | 3119           | 0                | 3119  | 0    |

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

UNFACTORED REACTIONS

| 1ST LOOSE | MAX. MIN. COMPONENT REACTIONS |
|-----------|-------------------------------|
| JT        | COMBINED                      |
| N         | 1495                          |
| H         | 2201                          |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 4.84 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED       | MAX. FACTORED  | WEBS  | MAX. FACTORED |
|--------|---------------|----------------|----------------|-------|---------------|
| MEMB.  | FORCE         | VERT. LOAD LC1 | MAX. CS1 (LC)  | MEMB. | FORCE         |
| FR-TO  |               | FROM TO        |                | FR-TO |               |
| A-B    | 0/28          | -91.8          | -91.8 0.07 (1) | M-G   | -408/0        |
| B-C    | -2914/0       | -91.8          | -91.8 0.17 (1) | C-L   | -86/0         |
| C-D    | -2892/0       | -91.8          | -91.8 0.17 (1) | L-D   | 0/70          |
| D-E    | -3517/0       | -91.8          | -91.8 0.27 (1) | D-J   | 0/1336        |
| E-F    | -3517/0       | -91.8          | -91.8 0.27 (1) | J-E   | -555/0        |
| F-G    | -3466/0       | -91.8          | -91.8 0.39 (1) | J-F   | 0/575         |
| N-B    | -2084/0       | 0.0            | 0.0 0.07 (1)   | I-F   | 0/522         |
| H-G    | -2933/0       | 0.0            | 0.0 0.20 (1)   | I-G   | 0/3293        |
|        |               |                |                | S-M   | 0/2864        |
| N-M    | 0/0           | -18.5          | -18.5 0.03 (1) |       |               |
| M-L    | 0/2822        | -18.5          | -18.5 0.21 (1) |       |               |
| L-K    | 0/2588        | -18.5          | -18.5 0.33 (1) |       |               |
| K-J    | 0/2588        | -18.5          | -18.5 0.33 (1) |       |               |
| J-O    | 0/3109        | -18.5          | -18.5 0.09 (1) |       |               |
| O-I    | 0/3109        | -18.5          | -18.5 0.09 (1) |       |               |
| I-P    | 0/0           | -18.5          | -18.5 0.32 (1) |       |               |
| P-Q    | 0/0           | -18.5          | -18.5 0.32 (1) |       |               |
| Q-H    | 0/0           | -18.5          | -18.5 0.32 (1) |       |               |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC     | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| F  | 18-8-0  | -178  | -178  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| I  | 18-3-12 | -35   | -35   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 18-4-8  | -1661 | -1661 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 20-3-12 | -283  | -283  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 22-3-12 | -284  | -284  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 38.0 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 2016

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2016, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.81")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.81")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.39/1.00 (F-G-1), BC=0.69/1.00 (I-J-1), WB=0.41/1.00 (G-I-1), SS=0.37/1.00 (I-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.

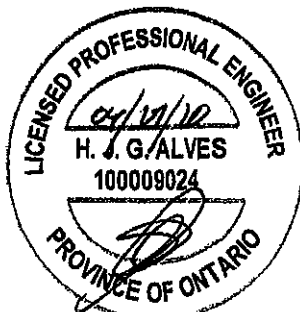
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (I) (INPUT = 0.90)  
JSI METAL = 0.44 (G) (INPUT = 1.00)



Structural component only  
DWG# T-2007176 42

CONTINUED ON PAGE 2

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | T47        | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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**PLATES (table is in inches)**

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  | TMWV-p   | MT20   | 4.0 | 6.0 | 1.00 | 3.00 |
| C  | TMWW-l   | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTWW-m   | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| E  | TMW-w    | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW-m   | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| G  | TMWW-l   | MT20   | 5.0 | 6.0 |      | Edge |
| H  | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |
| I  | BMWW-l   | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| J  | BMWWWW-l | MT20   | 5.0 | 6.0 |      |      |
| K  | BS-l     | MT20   | 5.0 | 6.0 |      |      |
| L  | BMWW-l   | MT20   | 5.0 | 6.0 |      |      |
| M  | BMWW-l   | MT20   | 5.0 | 6.0 |      |      |
| N  | BMV1+p   | MT20   | 3.0 | 6.0 |      |      |

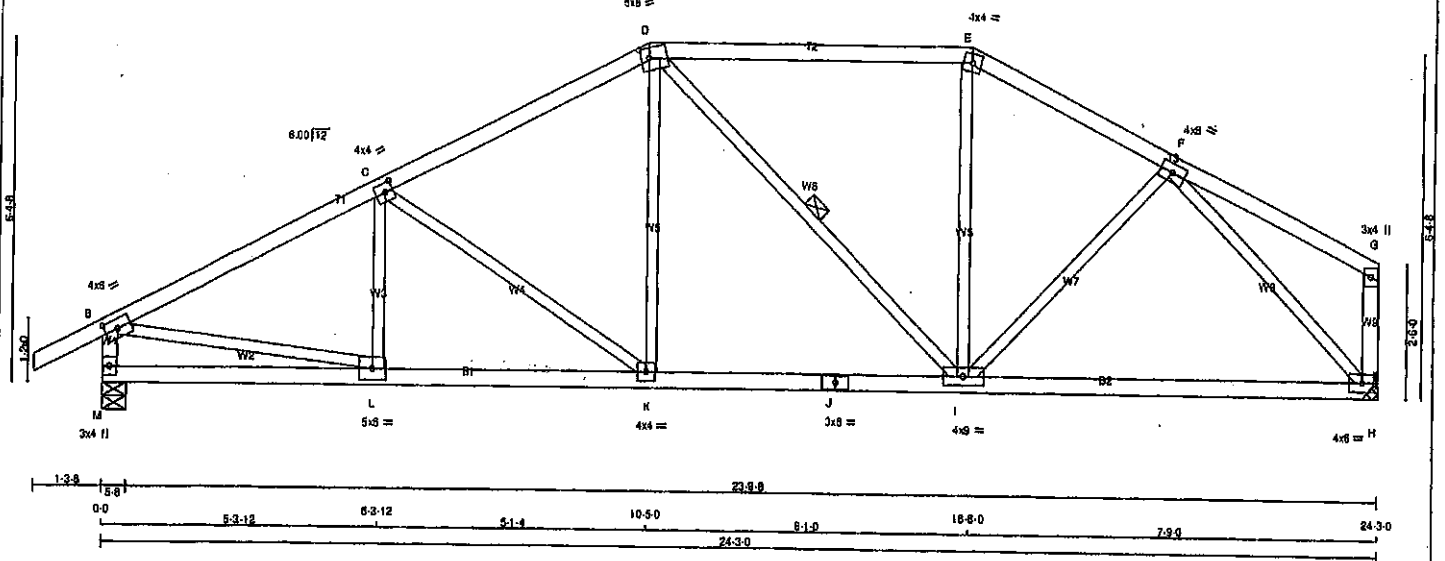
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.



Structural component only  
DWG# T-2007176 12

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408170</b>       | TRUSS NAME<br><b>T48</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                      |          |

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |         |        |     |               |
|--------------------------|---------|--------|-----|---------------|
| JT                       | TYPE    | PLATES | W   | LEN Y X       |
| B                        | TMVW-I  | MT20   | 4.0 | 6.0 2.00 3.00 |
| C                        | TMWW-I  | MT20   | 4.0 | 4.0 2.00 1.75 |
| D                        | TTWW-m  | MT20   | 5.0 | 8.0 2.25 2.00 |
| E                        | TTW-m   | MT20   | 4.0 | 4.0           |
| F                        | TMVW-I  | MT20   | 4.0 | 8.0           |
| G                        | TMV-p   | MT20   | 3.0 | 4.0           |
| H                        | BMVW-I  | MT20   | 4.0 | 6.0           |
| I                        | BMVW-I  | MT20   | 4.0 | 9.0           |
| J                        | BS-I    | MT20   | 3.0 | 6.0           |
| K                        | BMVW-I  | MT20   | 4.0 | 4.0           |
| L                        | BMVW-I  | MT20   | 5.0 | 6.0           |
| M                        | BMV-I+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 | GROSS REACTION | GROSS REACTION   | BRG   | BRG        |
| M        | 1481 | 0              | 1461             | 0     | 5-8        |
| H        | 1337 | 0              | 1337             | 0     | MECHANICAL |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| M  | 1031     | 580 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 341 / 0 | 0 / 0 |
| H  | 945      | 820 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 325 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.58 FT.  
MAX. UNSPACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  | FROM TO                   | FR-TO | FROM TO                   |
| A-B    | 0 / 28                    | L-C   | -165 / 32                 |
| B-C    | -1844 / 0                 | C-K   | -438 / 0                  |
| C-D    | -1488 / 0                 | K-D   | 0 / 334                   |
| D-E    | -1181 / 0                 | D-I   | -189 / 0                  |
| E-F    | -1338 / 0                 | I-E   | 0 / 175                   |
| F-G    | 0 / 18                    | I-F   | 0 / 158                   |
| M-B    | -1419 / 0                 | B-L   | 0 / 1692                  |
| H-G    | -138 / 0                  | F-H   | -1563 / 0                 |
| M-L    | 0 / 0                     |       |                           |
| L-K    | 0 / 1871                  |       |                           |
| K-J    | 0 / 1313                  |       |                           |
| J-I    | 0 / 1313                  |       |                           |
| I-H    | 0 / 1069                  |       |                           |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./G

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.81")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.81")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.14")

CSI: TC=0.48/1.00 (D-E:1), BC=0.38/1.00 (K-K:4), WB=0.82/1.00 (F-H:1), SS=0.22/1.00 (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 616 354 1697 789 1997 1696

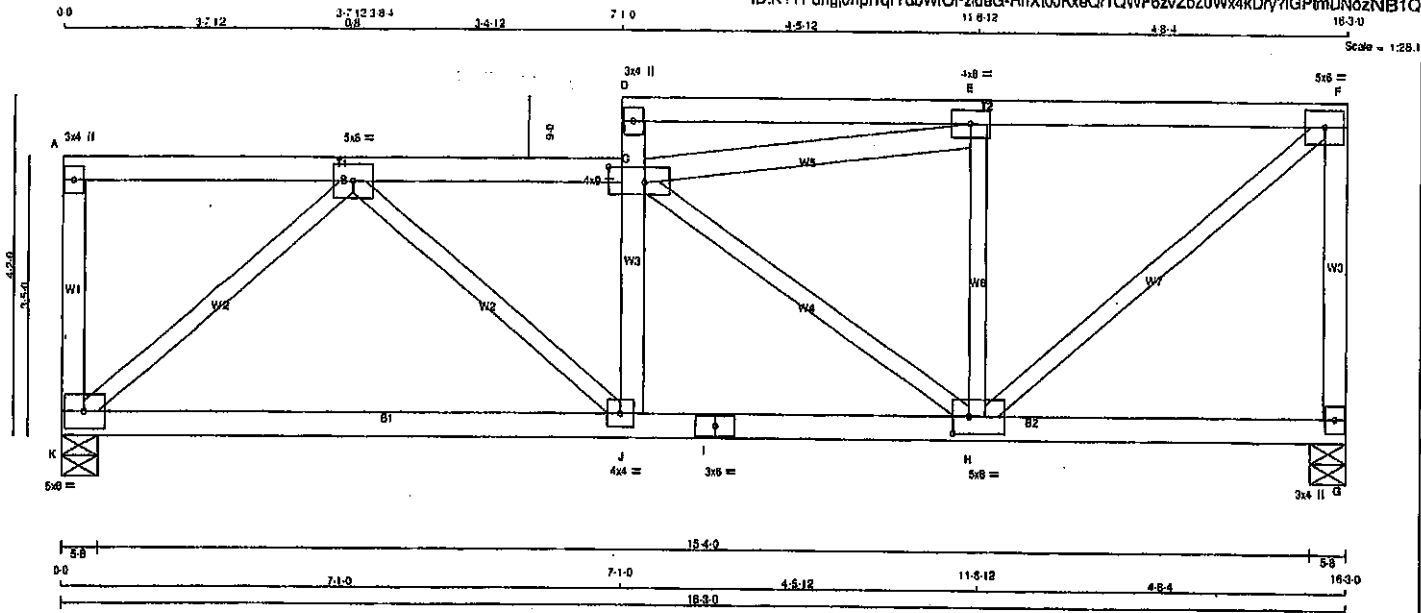
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.80 (8) (INPUT = 0.99)  
JSI METAL = 0.50 (8) (INPUT = 1.00)



Structural component only  
DWG# T-2007177



TOTAL WEIGHT = 3 X 72 = 216 lb  
(M/R)

**LUMBER**

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2  
EXCEPT  
C - E 2x4 DRY No.2

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| B  | TMWW-I | MT20   | 5.0 | 6.0 |      |      |
| C  | TMWW-I | MT20   | 4.0 | 9.0 | 2.25 | 5.50 |
| D  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| E  | TMWW-I | MT20   | 4.0 | 6.0 |      |      |
| F  | TMWW-I | MT20   | 5.0 | 6.0 |      |      |
| G  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| H  | BMWW-I | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| I  | BS-I   | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-I | MT20   | 4.0 | 4.0 |      |      |
| K  | BMVW-I | MT20   | 5.0 | 8.0 |      |      |

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

**PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING**

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |    | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|----|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | UP |                 |                |
| K  | 1078                    | 0    | 1078                            | 0  | 5-8             | 5-8            |
| G  | 1078                    | 0    | 1078                            | 0  | 5-8             | 5-8            |

**UNFACTORED REACTIONS**

| JT | 1ST CASE |       | MAX/MIN COMPONENT REACTIONS |            | WIND | DEAD  | SOIL |
|----|----------|-------|-----------------------------|------------|------|-------|------|
|    | COMBINED | SNOW  | LIVE                        | PERM. LIVE |      |       |      |
| K  | 780      | 418/0 | 0/0                         | 0/0        | 0/0  | 384/0 | 0/0  |
| G  | 780      | 418/0 | 0/0                         | 0/0        | 0/0  | 384/0 | 0/0  |

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

**BRACING**

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

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               |               | WEBS                 |       |                           |               |  |
|--------|---------------------------|---------------------------|---------------|---------------|----------------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LOAD LC1 (LC) | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM                      | TO            |               |                      | FR-TO |                           |               |  |
| K-A    | -183 / 0                  | 0.0                       | 0.0           | 0.04 (1)      | 7.81                 | K-B   | -1328 / 0                 | 0.65 (1)      |  |
| A-B    | 0 / 0                     | -114.3                    | -114.3        | 0.32 (1)      | 10.00                | B-J   | 0 / 538                   | 0.16 (1)      |  |
| B-C    | -1418 / 0                 | -114.3                    | -114.3        | 0.37 (1)      | 4.47                 | C-E   | -961 / 0                  | 0.30 (1)      |  |
| J-C    | -228 / 0                  | 0.0                       | 0.0           | 0.08 (1)      | 7.81                 | C-H   | -489 / 0                  | 0.30 (1)      |  |
| C-D    | -183 / 0                  | 0.0                       | 0.0           | 0.08 (1)      | 7.81                 | H-E   | -471 / 0                  | 0.18 (1)      |  |
| D-E    | -58 / 0                   | -114.3                    | -114.3        | 0.61 (1)      | 6.25                 | H-F   | 0 / 1303                  | 0.39 (1)      |  |
| E-F    | -1004 / 0                 | -114.3                    | -114.3        | 0.55 (1)      | 4.81                 |       |                           |               |  |
| G-F    | -1039 / 0                 | 0.0                       | 0.0           | 0.37 (1)      | 6.91                 |       |                           |               |  |
| K-J    | 0 / 1013                  | -18.5                     | -18.5         | 0.41 (4)      | 10.00                |       |                           |               |  |
| J-I    | 0 / 1402                  | -18.5                     | -18.5         | 0.48 (4)      | 10.00                |       |                           |               |  |
| I-H    | 0 / 1402                  | -18.5                     | -18.5         | 0.48 (4)      | 10.00                |       |                           |               |  |
| H-G    | 0 / 0                     | -18.5                     | -18.5         | 0.13 (4)      | 10.00                |       |                           |               |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 25.6 PSF  
OL = 15.0 PSF  
BOT CH. LL = 0.0 PSF  
OL = 7.4 PSF  
TOTAL LOAD = 48.0 PSF

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

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 0.00/12

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, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-08, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/240 (0.54")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.55/1.00 (E-F:1), EC=0.48/1.00 (H-J:4), WB=0.65/1.00 (B-K:1), SS=0.34/1.00 (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  
FLAT ROOF FACTOR = 0.75

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            | 618 354     | 1887 788      |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

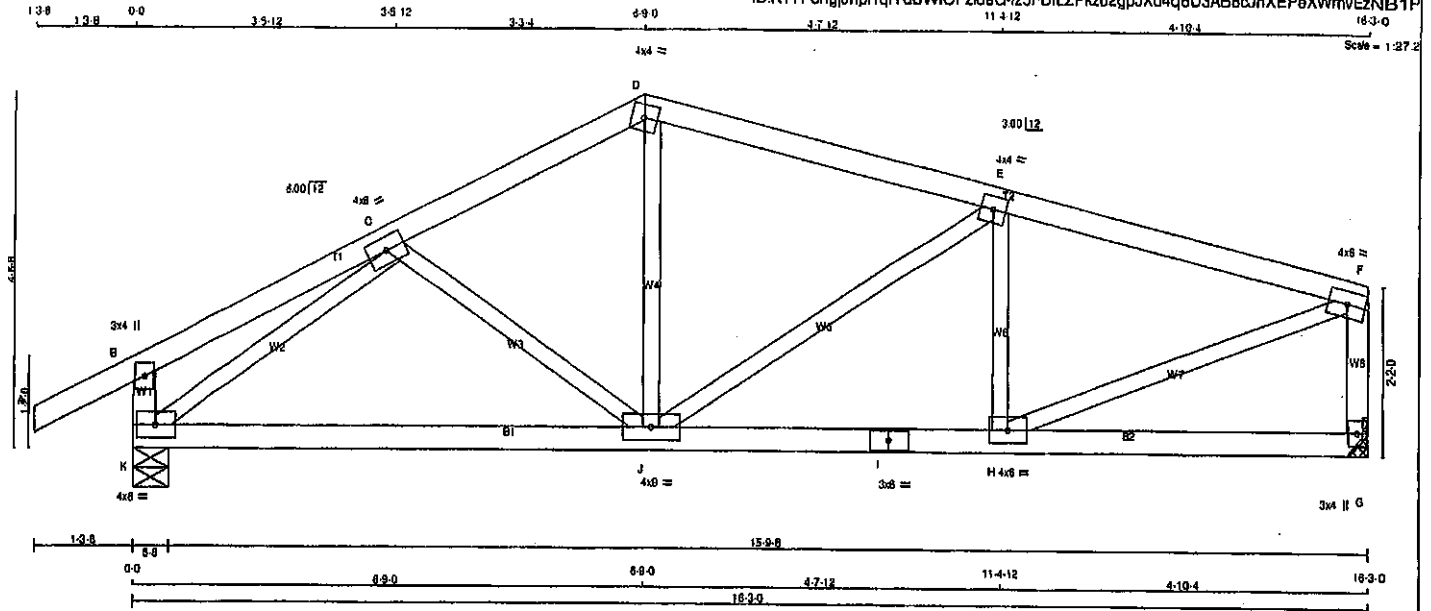
JSI GRIP= 0.85 (C) (INPUT = 0.80)  
JSI METAL= 0.82 (I) (INPUT = 1.00)



|          |            |          |     |             |                  |         |
|----------|------------|----------|-----|-------------|------------------|---------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DWG NO. |
| 408170   | T50        | 2        | 1   | TRUSS DESC. |                  |         |

Tamarack Roof Truss, Burlington

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| LUMBER           |     |      |        |       |
|------------------|-----|------|--------|-------|
| N. L. & A. RULES |     |      |        |       |
| CHORDS           |     | SIZE | LUMBER | DESCR |
| A - D            | 2x4 | DRY  | No.2   | SPF   |
| D - F            | 2x4 | DRY  | No.2   | SPF   |
| K - B            | 2x4 | DRY  | No.2   | SPF   |
| G - F            | 2x4 | DRY  | No.2   | SPF   |
| K - I            | 2x4 | DRY  | No.2   | SPF   |
| I - G            | 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                        | TMV+p   | MT20   | 3.0 | 4.0 |   |   |
| C                        | TMWW-I  | MT20   | 4.0 | 6.0 |   |   |
| D                        | TTW-I   | MT20   | 4.0 | 4.0 |   |   |
| E                        | TMWW-I  | MT20   | 4.0 | 4.0 |   |   |
| F                        | TMWW-I  | MT20   | 4.0 | 6.0 |   |   |
| G                        | BMV1+p  | MT20   | 3.0 | 4.0 |   |   |
| H                        | BMWW-I  | MT20   | 4.0 | 6.0 |   |   |
| I                        | BS-I    | MT20   | 3.0 | 6.0 |   |   |
| J                        | BMWW-I  | MT20   | 4.0 | 6.0 |   |   |
| K                        | BMV1-I  | MT20   | 4.0 | 6.0 |   |   |

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             | UPLIFT | IN-SX      |
| K        | 1020           | 0                | 0      | 5-8        |
| G        | 898            | 0                | 0      | MECHANICAL |

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

| UNFACTORED REACTIONS |          |                             |      |            |      |       |      |
|----------------------|----------|-----------------------------|------|------------|------|-------|------|
|                      | 1ST CASE | MAX/MIN COMPONENT REACTIONS |      |            |      |       |      |
| JT                   | COMBINED | SNOW                        | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| K                    | 719      | 485/0                       | 0/0  | 0/0        | 0/0  | 234/0 | 0/0  |
| G                    | 833      | 416/0                       | 0/0  | 0/0        | 0/0  | 218/0 | 0/0  |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.73 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS        |                |                     |                     | WEBS                     |       |                |                 |          |
|---------------|----------------|---------------------|---------------------|--------------------------|-------|----------------|-----------------|----------|
| MAX. FACTORED |                | FACTORED            |                     | MAX. FACTORED            |       | FACTORED       |                 |          |
| MEMB.         | FORCE<br>(LBS) | VERT. LOAD<br>(PLF) | LC1 MAX<br>CSI (LC) | MAX.<br>UNBRAC<br>LENGTH | MEMB. | FORCE<br>(LBS) | MAX<br>CSI (LC) |          |
| FR-TO         |                | FROM TO             |                     |                          | FR-TO |                |                 |          |
| A-B           | 0/28           | -81.8               | -81.8               | 0.12 (1)                 | 10.00 | C-J            | -135/7          | 0.04 (1) |
| B-C           | 0/14           | -81.8               | -81.8               | 0.15 (1)                 | 10.00 | J-D            | 0/355           | 0.08 (1) |
| C-D           | -882/0         | -81.8               | -81.8               | 0.13 (1)                 | 6.20  | J-E            | -263/0          | 0.13 (1) |
| D-E           | -894/0         | -81.8               | -81.8               | 0.26 (1)                 | 6.18  | H-E            | -335/0          | 0.07 (1) |
| E-F           | -1094/0        | -81.8               | -81.8               | 0.27 (1)                 | 5.73  | K-C            | -1198/0         | 0.35 (1) |
| K-B           | -248/0         | 0.0                 | 0.0                 | 0.03 (1)                 | 7.81  | H-F            | 0/1150          | 0.28 (1) |
| G-F           | -855/0         | 0.0                 | 0.0                 | 0.10 (1)                 | 7.81  |                |                 |          |
| K-J           | 0/856          | -18.5               | -18.5               | 0.26 (1)                 | 10.00 |                |                 |          |
| J-I           | 0/1073         | -18.5               | -18.5               | 0.27 (1)                 | 10.00 |                |                 |          |
| I-H           | 0/1073         | -18.5               | -18.5               | 0.27 (1)                 | 10.00 |                |                 |          |
| H-G           | 0/0            | -18.5               | -18.5               | 0.10 (4)                 | 10.00 |                |                 |          |

TOTAL WEIGHT = 2 X 63 = 126 lb (M)(F)

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 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, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TRIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")  
ALLOWABLE DEFL. (TL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

CS: TO=0.27/1.00 (E-F:1), BC=0.27/1.00 (H-J:1), WB=0.35/1.00 (C-K:1), SS=0.21/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1887 788 1987 1655

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.71 (H) (INPUT = 0.90)  
JSI METAL= 0.32 (H) (INPUT = 1.00)

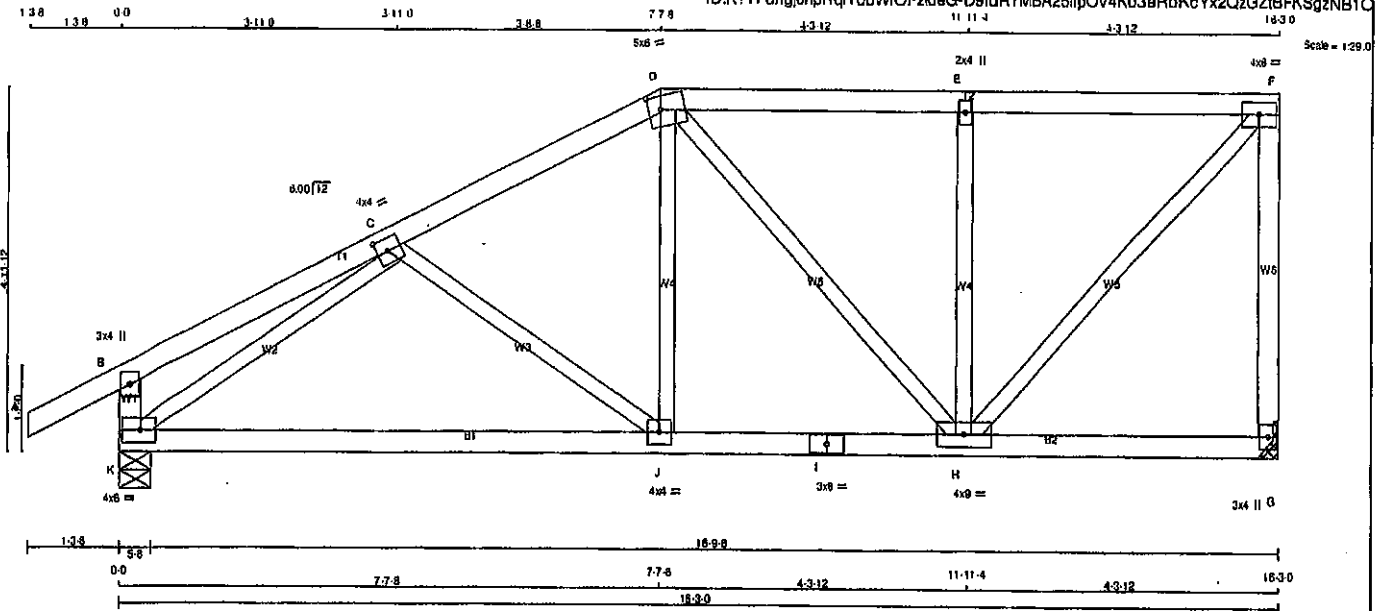


Structural component only  
DWG# T-2007179

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408170   | T51        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 70 lb

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

DRY, SEASONED LUMBER.

| PLATES (table in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|--------------------------|---------|--------|-----|-----|------|------|
| B                        | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C                        | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D                        | TTWW-m  | MT20   | 5.0 | 8.0 | 2.25 | 2.00 |
| E                        | TMV-w   | MT20   | 2.0 | 4.0 |      |      |
| F                        | TMV-w   | MT20   | 4.0 | 8.0 |      |      |
| G                        | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| H                        | BMWW-l  | MT20   | 4.0 | 9.0 |      |      |
| I                        | BS-l    | MT20   | 3.0 | 6.0 |      |      |
| J                        | BMWW-l  | MT20   | 4.0 | 4.0 |      |      |
| K                        | BMVW-l  | MT20   | 4.0 | 8.0 |      |      |

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 |
| G  | 888            | 0                | 888   | 0    |
| K  | 1020           | 0                | 1020  | 0    |

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

UNFACTORED REACTIONS

| 1ST LOOSE |          | MAX./MIN. COMPONENT REACTIONS |       |            |       |         |       |
|-----------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| G         | 633      | 416 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 218 / 0 | 0 / 0 |
| K         | 719      | 485 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 234 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.21 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                | 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 / 28                    | -91.8                     | -91.8 0.12 (1) | 10.00 | C-J                       | -215 / 0      | 0.08 (1) |
| B-C    | 0 / 17                    | -91.8                     | -91.8 0.20 (1) | 10.00 | J-D                       | 0 / 288       | 0.08 (1) |
| C-D    | -901 / 0                  | -91.8                     | -91.8 0.22 (1) | 8.21  | D-H                       | -210 / 0      | 0.14 (1) |
| D-E    | -854 / 0                  | -91.8                     | -91.8 0.29 (1) | 6.25  | H-E                       | -488 / 0      | 0.18 (1) |
| E-F    | -854 / 0                  | -91.8                     | -91.8 0.29 (1) | 6.25  | H-F                       | 0 / 981       | 0.22 (1) |
| G-F    | -858 / 0                  | 0.0                       | 0.0 0.35 (1)   | 7.81  | K-C                       | -1192 / 0     | 0.43 (1) |
| K-B    | -281 / 0                  | 0.0                       | 0.0 0.03 (1)   | 7.81  |                           |               |          |
| K-J    | 0 / 985                   | -18.5                     | -18.5 0.30 (4) | 10.00 |                           |               |          |
| J-I    | 0 / 798                   | -18.5                     | -18.5 0.30 (4) | 10.00 |                           |               |          |
| I-H    | 0 / 798                   | -18.5                     | -18.5 0.30 (4) | 10.00 |                           |               |          |
| H-G    | 0 / 0                     | -18.5                     | -18.5 0.08 (4) | 10.00 |                           |               |          |

DESIGN CRITERIA

SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | OL = 8.0  | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | OL = 7.4  | PSF |
| TOTAL LOAD | = 38.0    | 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, NBC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 888-09, CSA 888-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")  
ALLOWABLE DEFL. (TL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TC=0.35/1.00 (F-G:1), BC=0.30/1.00 (J-K:4), WB=0.43/1.00 (C-K:1), SS=0.19/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (C) (INPUT = 0.80)  
JSI METAL = 0.40 (C) (INPUT = 1.00)



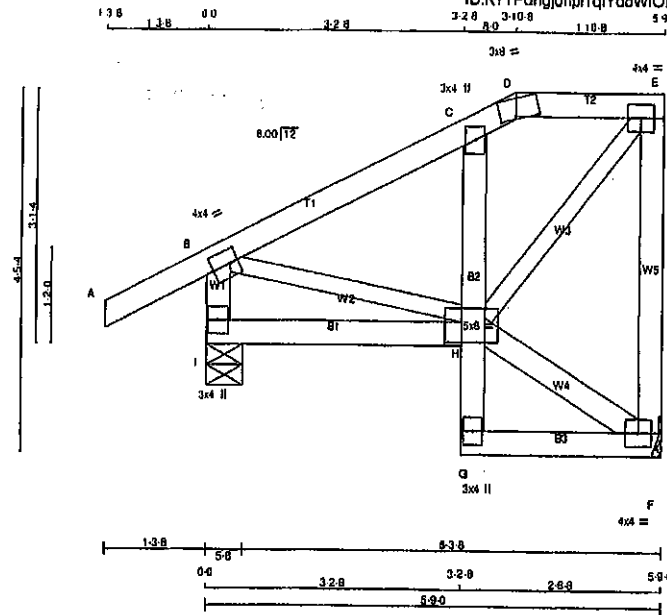
Structural component only  
DWG# T-2007180



|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170   | T53S       | 1        | 1   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

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Scale = 1/26.0

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

DRY: SEASONED LUMBER.

#### PLATES (Table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| D  | TT-m    | MT20   | 3.0 | 6.0 | 0.50 | 2.50 |
| E  | TMVW-1  | MT20   | 4.0 | 4.0 |      |      |
| F  | BMVW1-1 | MT20   | 4.0 | 4.0 |      |      |
| G  | BMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVWW-1 | MT20   | 5.0 | 8.0 | 3.00 | 2.50 |
| I  | 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 |
| F        | 302            | 0                | 302   | 0    |
| I        | 457            | 0                | 457   | 0    |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX     | MIN   | COMPONENT REACTIONS |
|----|-----------|---------|-------|---------------------|
|    | COMBINED  | SNOW    | LIVE  | PERM. LIVE          |
| F  | 214       | 138 / 0 | 0 / 0 | 0 / 0               |
| I  | 320       | 225 / 0 | 0 / 0 | 0 / 0               |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX  | LC1 MAX | MAX. UNBRACED LENGTH | WEBS    | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
|--------|----------|---------------------------|---------------------------|----------|---------|----------------------|---------|----------|---------------------------|------------------------|
| FR-TO  |          |                           |                           |          |         |                      | FR-TO   |          |                           |                        |
| A-B    | 0 / 28   | -91.8                     | -91.8                     | 0.12 (1) | 10.00   | H-F                  | -10 / 0 | 0.00 (1) |                           |                        |
| B-C    | -217 / 0 | -91.8                     | -91.8                     | 0.14 (1) | 8.25    | B-H                  | 0 / 153 | 0.03 (1) |                           |                        |
| C-D    | -200 / 0 | -91.8                     | -91.8                     | 0.05 (1) | 8.25    | H-E                  | 0 / 247 | 0.06 (1) |                           |                        |
| D-E    | -167 / 0 | -91.8                     | -91.8                     | 0.03 (1) | 8.25    |                      |         |          |                           |                        |
| F-E    | -273 / 0 | 0.0                       | 0.0                       | 0.03 (1) | 7.81    |                      |         |          |                           |                        |
| I-B    | -420 / 0 | 0.0                       | 0.0                       | 0.04 (4) | 7.81    |                      |         |          |                           |                        |
| I-H    | 0 / 41   | -18.5                     | -18.5                     | 0.05 (4) | 10.00   |                      |         |          |                           |                        |
| G-H    | 0 / 25   | 0.0                       | 0.0                       | 0.02 (1) | 10.00   |                      |         |          |                           |                        |
| H-C    | -188 / 0 | 0.0                       | 0.0                       | 0.04 (1) | 7.81    |                      |         |          |                           |                        |
| G-F    | 0 / 16   | -18.5                     | -18.5                     | 0.02 (4) | 10.00   |                      |         |          |                           |                        |

TOTAL WEIGHT = 33 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 26.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 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, ABC 2018  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

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

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.6 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=0.14/1.00 (B-C:1), SC=0.05/1.00 (H-I:4), WB=0.08/1.00 (E-H:1), SS=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

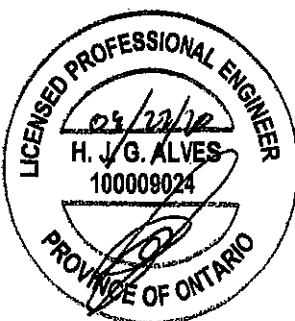
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 768 1887 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.36 (H) (INPUT = 0.90)  
JSI METAL = 0.13 (B) (INPUT = 1.00)



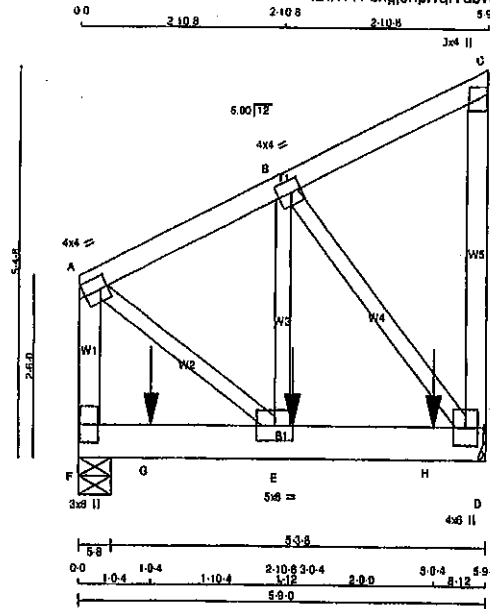
Structural component only  
DWG# T-2007181



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408170   | T55        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/200

| LUMBER                |     |      |        |     |       |
|-----------------------|-----|------|--------|-----|-------|
| N. L. G. A. RULES     |     |      |        |     |       |
| CHORDS                |     | SIZE | LUMBER |     | DESCR |
| F - A                 | 2x4 | DRY  | No.2   | SPF |       |
| A - C                 | 2x4 | DRY  | No.2   | SPF |       |
| D - C                 | 2x4 | DRY  | No.2   | SPF |       |
| F - D                 | 2x6 | 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    |                      |             |
| F - A                                    | 12                   | TOP         |
| A - C                                    | 12                   | TOP         |
| C - D                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| F - D                                    | 12                   | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| B - E                                    | 6                    | SIDE(45.8)  |
| 2x3                                      | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| B  | TMVW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| C  | TMVW-1  | MT20   | 3.0 | 4.0 |      |      |
| D  | BMVW1-p | MT20   | 4.0 | 8.0 |      |      |
| E  | BMVW-1  | MT20   | 5.0 | 8.0 |      |      |

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     |
| F        | 1589                    | 0                               | 1589      | 0        |
| D        | 1680                    | 0                               | 1680      | 0        |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|-------|-------|------------|-------|---------|-------|
| F  | 1121     | 750 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 371 / 0 | 0 / 0 |
| D  | 1185     | 792 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 394 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
|--------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO  |                           |                           |                                |                                |                                |                                |                                |                                |
| F - A  | -1074 / 0                 | 0.0                       | 0.0                            | 0.07 (1)                       | 7.81                           | A - E                          | 0 / 975                        | 0.12 (1)                       |
| A - B  | -887 / 0                  | -91.8                     | -91.8                          | 0.06 (1)                       | 6.25                           | E - B                          | 0 / 1044                       | 0.13 (1)                       |
| B - C  | -12 / 0                   | -91.8                     | -91.8                          | 0.06 (1)                       | 6.25                           | B - D                          | -1248 / 0                      | 0.21 (1)                       |
| D - C  | -105 / 0                  | 0.0                       | 0.0                            | 0.02 (1)                       | 7.81                           |                                |                                |                                |
| F - G  | 0 / 0                     | -18.5                     | -18.5                          | 0.19 (1)                       | 10.00                          |                                |                                |                                |
| G - E  | 0 / 0                     | -18.5                     | -18.5                          | 0.19 (1)                       | 10.00                          |                                |                                |                                |
| E - H  | 0 / 786                   | -18.5                     | -18.5                          | 0.21 (1)                       | 10.00                          |                                |                                |                                |
| H - D  | 0 / 786                   | -18.5                     | -18.5                          | 0.21 (1)                       | 10.00                          |                                |                                |                                |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|-------|------|------|------|------|------|-------|------|-------|
| E  | 3-0-4 | -877 | -877 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| G  | 1-0-4 | -877 | -877 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| H  | 5-0-4 | -880 | -880 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 34 = 67 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:

|                   |           |     |
|-------------------|-----------|-----|
| TOP CH.           | LL = 25.6 | PSF |
| DL = 6.0          | PSF       |     |
| BOT CH.           | LL = 0.0  | PSF |
| DL = 7.4          | PSF       |     |
| TOTAL LOAD = 39.0 | PSF       |     |

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.18")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.18")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.07/1.00 (A-F:1), BC=0.21/1.00 (D-E:1), WB=0.21/1.00 (B-D:1), SS=0.20/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR   | SECTION |
|---------|-----------|---------|---------|
| (PS)    | (PL)      | (PL)    | (PL)    |
| MAX MIN | MAX MIN   | MAX MIN | MAX MIN |
| MT20    | 818       | 354     | 1687    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.72 (A) (INPUT = 0.90)  
JSI METAL=0.18 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2007183/1/2

CONTINUED ON PAGE 2

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408170              | TRUSS NAME<br>T55 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | TRUSS DESC.                   |          |

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PLATES (table in inches)  
JT TYPE PLATES W LEN Y X  
F BMV1+p MT20 3.0 6.0

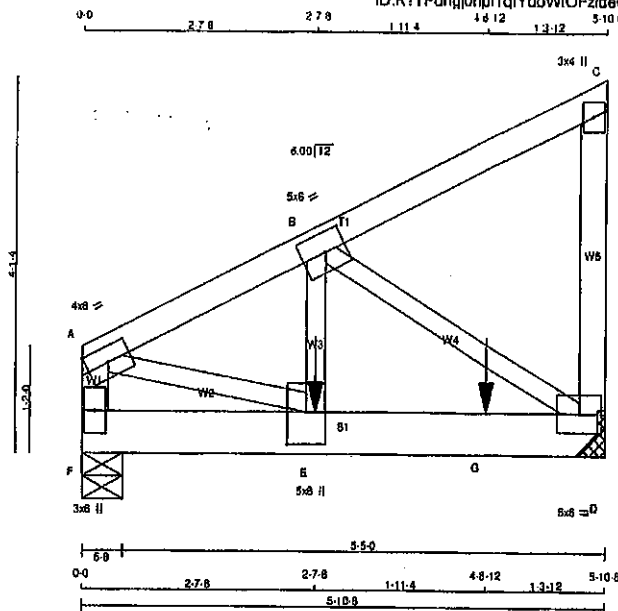


Structural component only  
DWG# T-2007183

|                    |                   |               |          |                               |         |
|--------------------|-------------------|---------------|----------|-------------------------------|---------|
| JOB NAME<br>408170 | TRUSS NAME<br>T56 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | ORWGNO. |
|--------------------|-------------------|---------------|----------|-------------------------------|---------|

Tamarack Roof Truss, Burlington

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Scale = 1/20.3

TOTAL WEIGHT = 2 X 29 = 57 lb

| CHORDS | SIZE | DRY | LUMBER | DESCR. |
|--------|------|-----|--------|--------|
| F - A  | 2x4  | DRY | No.2   | SPF    |
| A - C  | 2x4  | DRY | No.2   | SPF    |
| D - C  | 2x4  | DRY | No.2   | SPF    |
| F - D  | 2x6  | 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    |                      |              |
| F - A                                    | 12                   | TOP          |
| A - C                                    | 12                   | TOP          |
| C - D                                    | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| F - D                                    | 5                    | SIDE (549.3) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| B - E                                    | 2                    | SIDE (259.5) |
| 2x3                                      | 5                    |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW-I | MT20   | 4.0 | 8.0 |      | Edge |
| B  | TMVW-I | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| C  | TMV-p  | MT20   | 3.0 | 4.0 |      |      |
| D  | BMVW-I | MT20   | 5.0 | 6.0 |      |      |
| E  | BMVW-I | MT20   | 5.0 | 8.0 | 4.25 | 2.50 |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | RECORD |
|----------|----------------|------------------|-------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | HORZ             | DOWN  | HORZ   |
| F        | 2334           | 0                | 2334  | 0      |
| D        | 2733           | 0                | 2733  | 0      |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN  | COMPONENT REACTIONS |
|----|----------|----------|---------------------|
|    | COMBINED | SNOW     | LIVE                |
| F  | 1846     | 1103 / 0 | 0 / 0               |
| D  | 1929     | 1200 / 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 = 5.20 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 | MAX. FACTORED | FACTORED       | WEBS          | MAX. FACTORED |
|--------|---------------|----------------|---------------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD LC1 | MAX. CS1 (LC) | UNBRAC        |
| FR-TO  |               | FROM           | TO            | LENGTH        |
| F-A    | -2316 / 0     | 0.0            | 0.0           | 1.13 (1)      |
| A-B    | -3101 / 0     | -91.8          | -91.8         | 0.08 (1)      |
| B-C    | 5 / 0         | -91.8          | -91.8         | 0.08 (1)      |
| D-C    | -138 / 0      | 0.0            | 0.0           | 0.02 (1)      |
| F-E    | 0 / 0         | -18.5          | -18.5         | 0.01 (4)      |
| E-G    | 0 / 2779      | -18.5          | -18.5         | 0.57 (1)      |
| G-D    | 0 / 2779      | -18.5          | -18.5         | 0.57 (1)      |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC    | LC1   | MAX   | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|------|------|-------|------|-------|
| E  | 2-7-8  | -3101 | -3101 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| G  | 4-6-12 | -1318 | -1318 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |   |      |     |
|------------|---|------|-----|
| TOP CH. LL | = | 25.6 | PSF |
| DL         | = | 8.0  | PSF |
| BOT CH. LL | = | 0.0  | PSF |
| DL         | = | 7.4  | PSF |
| TOTAL LOAD | = | 39.0 | PSF |

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

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2010, CBC 2012, ABC 2010
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(LL) =  $L/989$  (0.02")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL.(TL) =  $L/989$  (0.04")

CS1: TO=0.13/1.00 (A-F:1), BC=0.57/1.00 (D-E:1),  
WB=0.42/1.00 (B-D:1), SS1=0.27/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
|       | (PS)       | (PL)  | (PL)    |
| MT20  | 616        | 354   | 1887    |

PLATE PLACEMENT TOL. = 0.250 inches

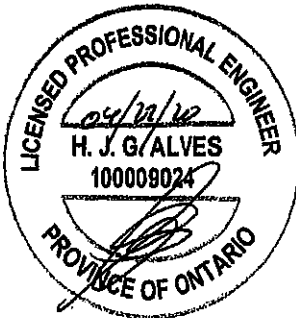
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (E) (INPUT = 0.90)  
JSI METAL=0.60 (E) (INPUT = 1.00)



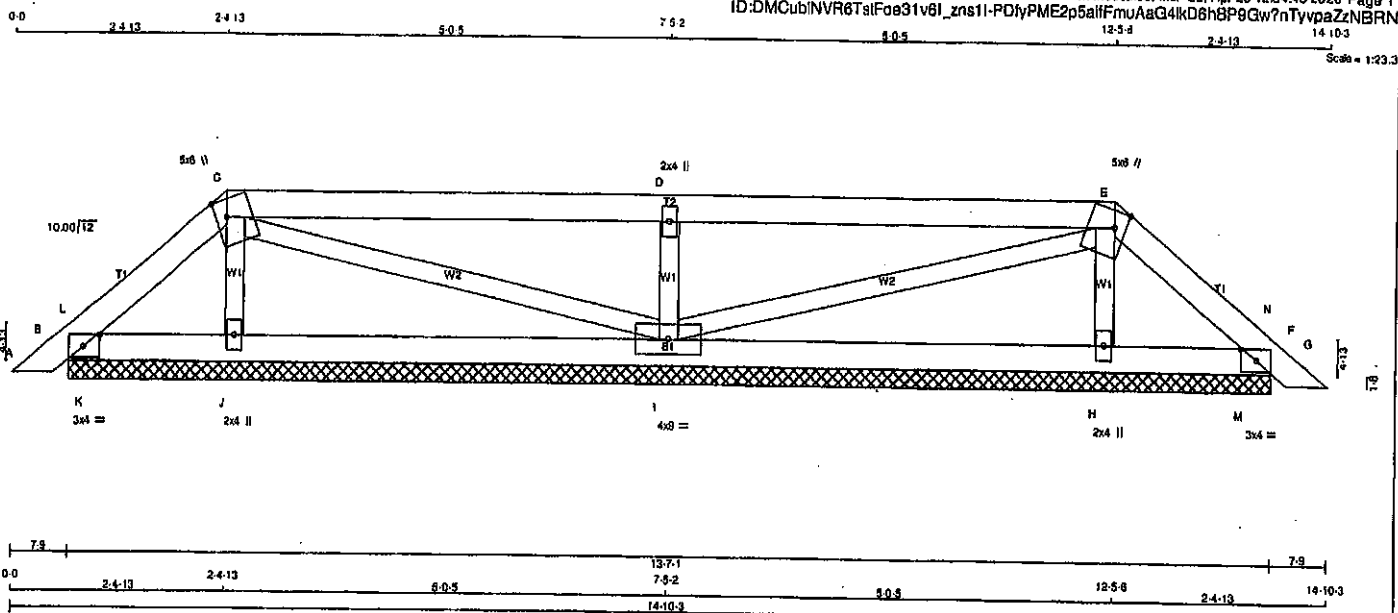
Structural component only  
DWG# T-2007184 1/2

CONTINUED ON PAGE 2

| JOB NAME                                                                                                                                                                                                                                                                                                                                             | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                                                          | GREEN PARK HOMES | DRWG NO. |    |      |        |   |     |   |   |   |        |      |     |     |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-----|------------------------------------------------------------------------------------|------------------|----------|----|------|--------|---|-----|---|---|---|--------|------|-----|-----|--|--|
| 408170                                                                                                                                                                                                                                                                                                                                               | T56        | 1        | 2   | TRUSS DESC.                                                                        |                  |          |    |      |        |   |     |   |   |   |        |      |     |     |  |  |
| Tamarack Roof Truss, Burlington                                                                                                                                                                                                                                                                                                                      |            |          |     | Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 26 13:02:33 2020 Page 2 |                  |          |    |      |        |   |     |   |   |   |        |      |     |     |  |  |
| ID:K7TPdhi0npl1qYdbWIOFzIdeG-6wu8GMPiDGBA8HIGJAg?oHm499FsMnS8opDXbRzNB1K                                                                                                                                                                                                                                                                             |            |          |     |                                                                                    |                  |          |    |      |        |   |     |   |   |   |        |      |     |     |  |  |
| <p>PLATES (table in inches)</p> <table border="1"><thead><tr><th>JT</th><th>TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr></thead><tbody><tr><td>F</td><td>BMV1+p</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr></tbody></table> <p>Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.</p> |            |          |     |                                                                                    |                  |          | JT | TYPE | PLATES | W | LEN | Y | X | F | BMV1+p | MT20 | 3.0 | 6.0 |  |  |
| JT                                                                                                                                                                                                                                                                                                                                                   | TYPE       | PLATES   | W   | LEN                                                                                | Y                | X        |    |      |        |   |     |   |   |   |        |      |     |     |  |  |
| F                                                                                                                                                                                                                                                                                                                                                    | BMV1+p     | MT20     | 3.0 | 6.0                                                                                |                  |          |    |      |        |   |     |   |   |   |        |      |     |     |  |  |
| <div></div> <p>Structural component only<br/>DWG# T-2007184 72</p>                                                                                                                                                                                                |            |          |     |                                                                                    |                  |          |    |      |        |   |     |   |   |   |        |      |     |     |  |  |

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                          | PB1        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:DMCubINVR6TstFoe31v6l\_zns11-PDfyPME2p5aIfmuAaG4kD8h8P9Gw7nTyvpaZzNBRR



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

| PLATES (table in inches) |         |        |     |     |           |
|--------------------------|---------|--------|-----|-----|-----------|
| JT                       | TYPE    | PLATES | W   | LEN | Y X       |
| B                        | TMB1-I  | MT20   | 3.0 | 4.0 | 1.50 2.00 |
| C                        | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 1.50 |
| D                        | TMW+m   | MT20   | 2.0 | 4.0 |           |
| E                        | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 1.50 |
| F                        | TMB1-I  | MT20   | 3.0 | 4.0 | 1.50 2.00 |
| H                        | BMW1+m  | MT20   | 2.0 | 4.0 |           |
| I                        | BMWW1-I | MT20   | 4.0 | 9.0 |           |
| J                        | BMW1+m  | 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 | REORD BRG |        |  |  |
| B        | 169 0                   | 169 0                           | 0         | 13-7-1    | 13-7-1 |  |  |
| F        | 169 0                   | 169 0                           | 0         | 13-7-1    | 13-7-1 |  |  |
| J        | 288 0                   | 288 0                           | 0         | 13-7-1    | 13-7-1 |  |  |
| I        | 683 0                   | 683 0                           | 0         | 13-7-1    | 13-7-1 |  |  |
| H        | 288 0                   | 288 0                           | 0         | 13-7-1    | 13-7-1 |  |  |

| UNFACTORED REACTIONS |          |       |      |            |      |       |      |
|----------------------|----------|-------|------|------------|------|-------|------|
| JT                   | 1ST CASE | SNOW  | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| B                    | 118      | 93/0  | 0/0  | 0/0        | 0/0  | 23/0  | 0/0  |
| F                    | 118      | 93/0  | 0/0  | 0/0        | 0/0  | 23/0  | 0/0  |
| J                    | 207      | 118/0 | 0/0  | 0/0        | 0/0  | 89/0  | 0/0  |
| I                    | 481      | 327/0 | 0/0  | 0/0        | 0/0  | 154/0 | 0/0  |
| H                    | 207      | 118/0 | 0/0  | 0/0        | 0/0  | 89/0  | 0/0  |

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

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

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

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

| CHORDS |                           |                           |               | WEBS  |                           |               |  |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |               | FR-TO |                           |               |  |
| A-B    | 0/14                      | -91.8 -91.8 0.02 (1)      | 10.00         | J-C   | -194/0                    | 0.03 (1)      |  |
| B-L    | -31/4                     | -91.8 -91.8 0.01 (1)      | 8.25          | C-I   | -22/0                     | 0.01 (1)      |  |
| L-C    | -80/0                     | -91.8 -91.8 0.03 (1)      | 8.25          | I-D   | -576/0                    | 0.08 (1)      |  |
| C-D    | -8/0                      | -91.8 -91.8 0.39 (1)      | 10.00         | I-E   | -22/0                     | 0.01 (1)      |  |
| D-E    | -8/0                      | -91.8 -91.8 0.39 (1)      | 10.00         | H-E   | -194/0                    | 0.03 (1)      |  |
| E-N    | -80/0                     | -91.8 -91.8 0.03 (1)      | 8.25          | K-L   | -121/0                    | 0.00 (1)      |  |
| N-F    | -31/4                     | -91.8 -91.8 0.01 (1)      | 8.25          | M-N   | -121/0                    | 0.00 (1)      |  |
| F-G    | 0/14                      | -91.8 -91.8 0.02 (1)      | 10.00         |       |                           |               |  |
| B-K    | 0/42                      | -18.5 -18.5 0.04 (1)      | 10.00         |       |                           |               |  |
| K-J    | 0/42                      | -18.5 -18.5 0.07 (4)      | 10.00         |       |                           |               |  |
| J-I    | 0/29                      | -18.5 -18.5 0.10 (4)      | 10.00         |       |                           |               |  |
| I-H    | 0/29                      | -18.5 -18.5 0.10 (4)      | 10.00         |       |                           |               |  |
| H-M    | 0/42                      | -18.5 -18.5 0.07 (4)      | 10.00         |       |                           |               |  |
| M-F    | 0/42                      | -18.5 -18.5 0.04 (1)      | 10.00         |       |                           |               |  |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.39/1.00 (C-D:1), BC=0.10/1.00 (H-I:4), WB=0.08/1.00 (D-I:1), SS=0.22/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

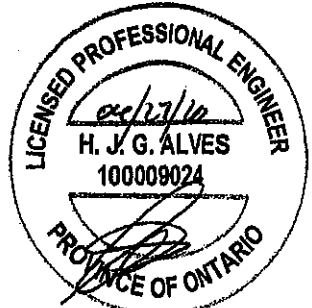
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PS) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1887 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

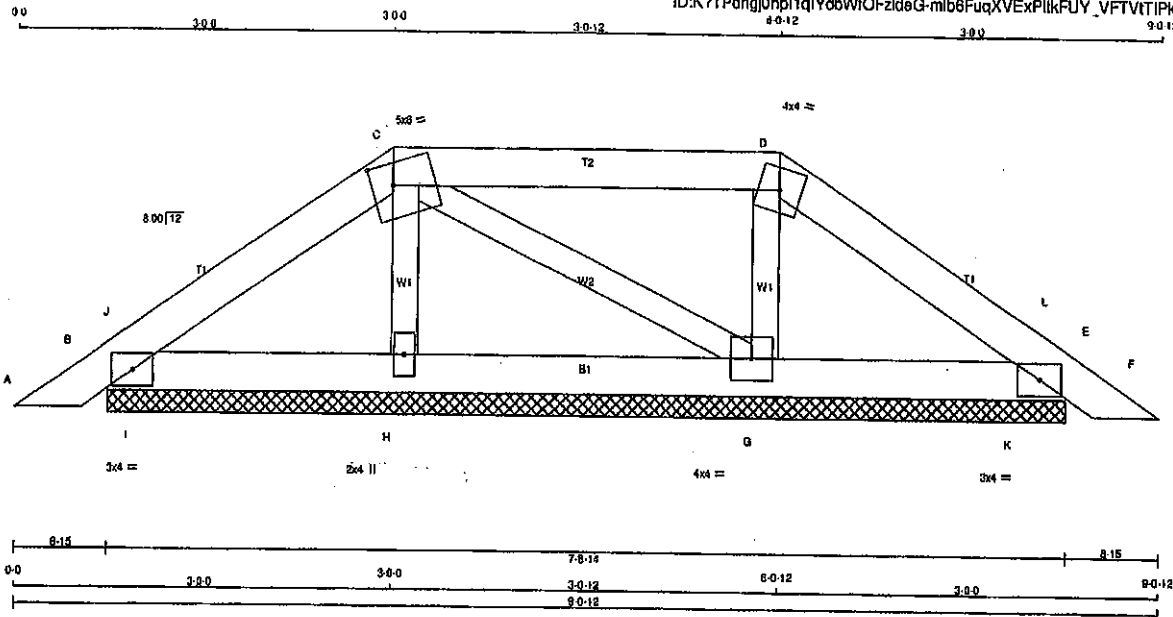
JSI GRIP=0.30 (D) (INPUT = 0.90)  
JSI METAL=0.12 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2007128

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169                          | PB20       | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

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ID:K?TPdngj0npl1q1YdbWIOFzIdeG-mlb6FuqXVExPIIkFUY\_VFTVTIPkW7jvF8AJozNBDH



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

| PLATES (table in inches) | W    | LEN | Y   | X         |
|--------------------------|------|-----|-----|-----------|
| JT TYPE                  |      |     |     |           |
| B TMB1-1                 | MT20 | 3.0 | 4.0 |           |
| C TTWW-m                 | MT20 | 5.0 | 6.0 | 2.00 2.00 |
| D TTWW-m                 | MT20 | 4.0 | 4.0 |           |
| E TMB1-1                 | MT20 | 3.0 | 4.0 |           |
| G BMWW1-1                | MT20 | 4.0 | 4.0 |           |
| H BMWW1-w                | MT20 | 2.0 | 4.0 |           |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD   |
|----------|----------------|------------------|-------|--------|
| JT       | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
|          | VERT           | HORZ             | DOWN  | UPLIFT |
| B        | 221            | 0                | 221   | 0      |
| E        | 209            | 0                | 209   | 0      |
| H        | 248            | 0                | 248   | 0      |
| G        | 280            | 0                | 280   | 0      |

#### UNFACTORED REACTIONS

| 1ST CASE | SNOW     | LIVE  | PERM. LIVE | WIND | DEAD | SOIL |
|----------|----------|-------|------------|------|------|------|
| JT       | COMBINED |       |            |      |      |      |
| B        | 154      | 113/0 | 0/0        | 0/0  | 41/0 | 0/0  |
| E        | 146      | 108/0 | 0/0        | 0/0  | 39/0 | 0/0  |
| H        | 176      | 109/0 | 0/0        | 0/0  | 67/0 | 0/0  |
| G        | 198      | 127/0 | 0/0        | 0/0  | 71/0 | 0/0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED         | MAX       | MAX.     | WEBS  | MAX. FACTORED | MAX       |
|--------|---------------|------------------|-----------|----------|-------|---------------|-----------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (LBS) | MAX (LBS) | UNBRAC   | MEMB. | FORCE (LBS)   | MAX (LBS) |
| FR-TO  |               | FROM             | TO        | LENGTH   | FR-TO |               |           |
| A-B    | 0/15          | -91.8            | -91.8     | 0.03 (1) | 10.00 | H-C           | -178/0    |
| B-J    | -63/0         | -91.8            | -91.8     | 0.01 (1) | 8.25  | C-G           | -21/0     |
| J-C    | -74/0         | -91.8            | -91.8     | 0.05 (1) | 8.25  | G-D           | -188/0    |
| C-D    | -30/0         | -91.8            | -91.8     | 0.15 (1) | 8.25  | I-J           | -121/0    |
| D-L    | -54/0         | -91.8            | -91.8     | 0.05 (1) | 6.25  | K-L           | -123/0    |
| L-E    | -41/0         | -91.8            | -91.8     | 0.01 (1) | 6.25  |               |           |
| E-F    | 0/15          | -91.8            | -91.8     | 0.03 (1) | 10.00 |               |           |
| B-I    | 0/60          | -18.5            | -18.5     | 0.08 (1) | 10.00 |               |           |
| I-H    | 0/60          | -18.5            | -18.5     | 0.08 (1) | 10.00 |               |           |
| H-G    | 0/48          | -18.5            | -18.5     | 0.03 (1) | 10.00 |               |           |
| G-K    | 0/43          | -18.5            | -18.5     | 0.08 (1) | 10.00 |               |           |
| K-E    | 0/43          | -18.5            | -18.5     | 0.08 (1) | 10.00 |               |           |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOP CH.    | LL | =    | 25.6 | PSF |
|            | DL | =    | 8.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 39.0 | PSF  |     |

SPACING = 24.0 IN. O.C.

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BOBC 2010, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.15/1.00 (C-D:1), 8C=0.03/1.00 (B-I:1), WB=0.03/1.00 (D-G:1), 8SI=0.11/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR   | SECTION                |
|------------------|---------|------------------------|
| (PSI)            | (PLI)   | (PLI)                  |
| MAX MIN          | MAX MIN | MAX MIN                |
| MT20             | 818     | 354 1687 788 1887 1658 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

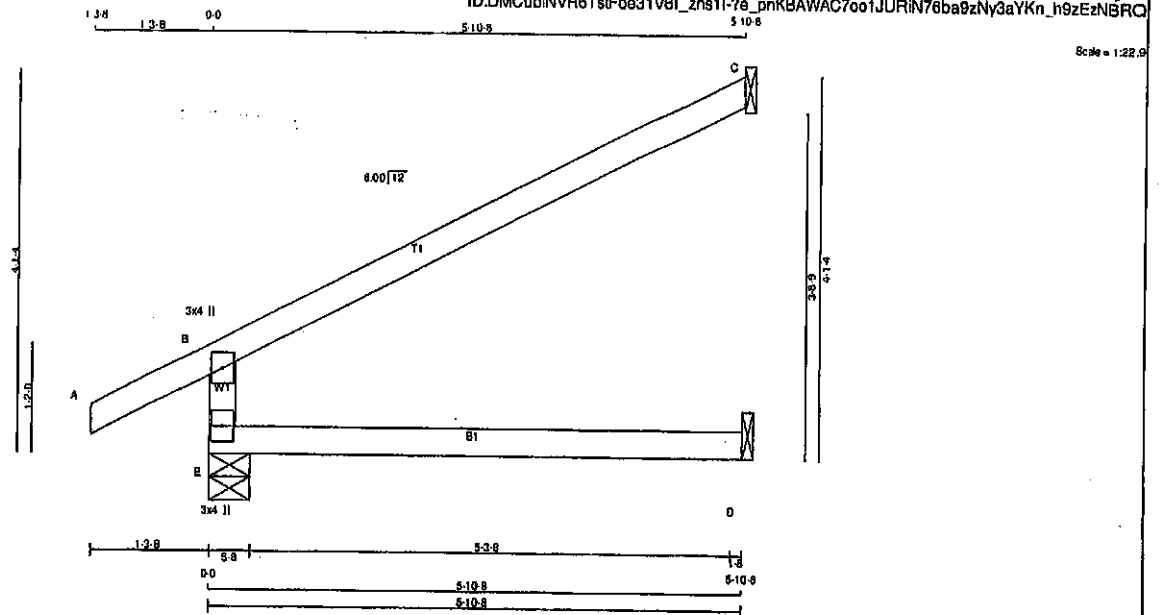
JSI GRIP= 0.18 (B) (INPUT = 0.90)  
JSI METAL= 0.04 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007144

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                          | J1         | 19       | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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TOTAL WEIGHT = 18 X 17 = 319 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 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     | GROSS REACTION | DOWN             | HORZ | BRG   | IN-SX | BRG  | IN-SX |
| E        | 525  | 0        | 525            | 0                | 0    | 5-8   | 5-8   |      |       |
| C        | 202  | 0        | 202            | 0                | 0    | 1-8   | 1-8   |      |       |
| D        | 45   | 0        | 50             | 0                | 0    | 1-8   | 1-8   |      |       |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| 1ST LOASE |          | MAX/MIN. COMPONENT REACTIONS |      |           |      |       |      |
|-----------|----------|------------------------------|------|-----------|------|-------|------|
| JT        | COMBINED | SNOW                         | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
| E         | 389      | 267/0                        | 0/0  | 0/0       | 0/0  | 111/0 | 0/0  |
| C         | 139      | 113/0                        | 0/0  | 0/0       | 0/0  | 26/0  | 0/0  |
| D         | 38       | 0/0                          | 0/0  | 0/0       | 0/0  | 36/0  | 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 = 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 |                           | FACTORED         |                | WEBS  |                           |
|--------|---------------------------|------------------|----------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                  |                | FR-TO |                           |
| E-B    | -481/0                    | 0.0              | 0.0 0.13 (4)   | 7.81  |                           |
| A-B    | 0/28                      | -91.8            | -91.8 0.12 (1) | 10.00 |                           |
| B-C    | -30/0                     | -91.8            | -91.8 0.54 (1) | 8.25  |                           |
| E-D    | 0/0                       | -18.5            | -18.5 0.13 (4) | 10.00 |                           |

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIG 2011, TPIG 2014

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.03")

CSI: TO=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (A-B:0), SB=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

| NAIL VALUES |       | PLATE GRIP(DRY) |       | SHEAR |       | SECTION |       |
|-------------|-------|-----------------|-------|-------|-------|---------|-------|
| (PSI)       | (PLI) | (PSI)           | (PLI) | (PSI) | (PLI) | (PSI)   | (PLI) |
| MAX         | MIN   | MAX             | MIN   | MAX   | MIN   | MAX     | MIN   |
| MT20        | 618   | 354             | 1887  | 788   | 1987  | 1556    |       |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.19 (E) (INPUT = 0.90)  
JSI METAL=0.13 (B) (INPUT = 1.00)

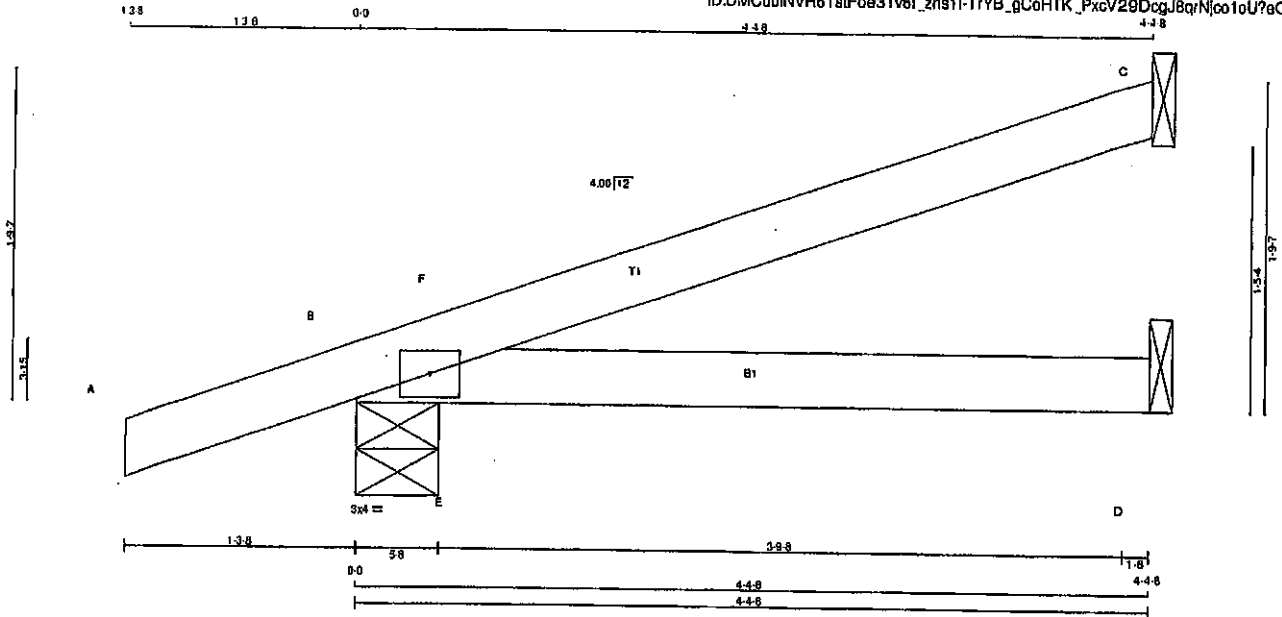


Structural component only  
DWG# T-2007126

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408168</b>       | TRUSS NAME<br><b>J2</b> | QUANTITY<br><b>8</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 26 12:34:44 2020 Page 1  
ID:DMCubINVR6TstFoe31v8l\_zns1l-TrYB\_gCoHTK\_PxcV29DcgJ8qrNco1oU?eQjVhzNBRRP

Scale = 1:11.5



TOTAL WEIGHT = 8 X 12 = 95 lb (M)

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

**PLATES (tab/s in inches)**  
JT TYPE PLATES W LEN Y X  
B TMB1-1 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 | IN-SX     | IN-SX | IN-SX    | IN-SX |
| C  | 174                     | 0    | 174                             | 0    | 1-8       | 1-8   | 1-8      | 1-8   |
| B  | 364                     | 0    | 364                             | 0    | 5-8       | 5-8   | 5-8      | 5-8   |
| D  | 68                      | 0    | 68                              | 0    | 1-8       | 1-8   | 1-8      | 1-8   |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

| JT | FACTORED GROSS REACTION |       | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQD BRG |       |
|----|-------------------------|-------|---------------------------------|------|-----------|-------|----------|-------|
|    | VERT                    | HORZ  | DOWN                            | HORZ | IN-SX     | IN-SX | IN-SX    | IN-SX |
| C  | 120                     | 93/0  | 0/0                             | 0/0  | 0/0       | 0/0   | 27/0     | 0/0   |
| B  | 255                     | 180/0 | 0/0                             | 0/0  | 0/0       | 0/0   | 75/0     | 0/0   |
| D  | 60                      | 19/0  | 0/0                             | 0/0  | 0/0       | 0/0   | 32/0     | 0/0   |

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

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

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

| MEMB. | CHORDS      |                  | FACTORED   |            | WEBS        |                  | MAX. FACTORED |            |
|-------|-------------|------------------|------------|------------|-------------|------------------|---------------|------------|
|       | FORCE (LBS) | VERT. LOAD (PLF) | LOAD (PLF) | MAX. (LBS) | FORCE (LBS) | VERT. LOAD (PLF) | FORCE (LBS)   | MAX. (LBS) |
| FR-TO |             |                  |            |            |             |                  |               |            |
| A-B   | 0/18        | -91.8            | -91.8      | 0.11 (1)   | 10.00       |                  |               |            |
| B-F   | -14/0       | -91.8            | -91.8      | 0.05 (4)   | 6.25        |                  |               |            |
| F-C   | 0/2         | -91.8            | -91.8      | 0.22 (1)   | 10.00       |                  |               |            |
| B-E   | 0/0         | -18.5            | -18.5      | 0.17 (1)   | 10.00       |                  |               |            |
| E-D   | 0/0         | -18.5            | -18.5      | 0.17 (1)   | 10.00       |                  |               |            |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN. CG**

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  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-08, CSA 088-14  
- TPG 2011, TPG 2014

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.18")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")  
ALLOWABLE DEFL. (TL) = L/360 (0.18")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.22/1.00 (C-F:1), BC=0.17/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SB=0.16/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRP(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= 0.24 (B) (INPUT = 0.60)  
JSI METAL= 0.07 (B) (INPUT = 1.00)



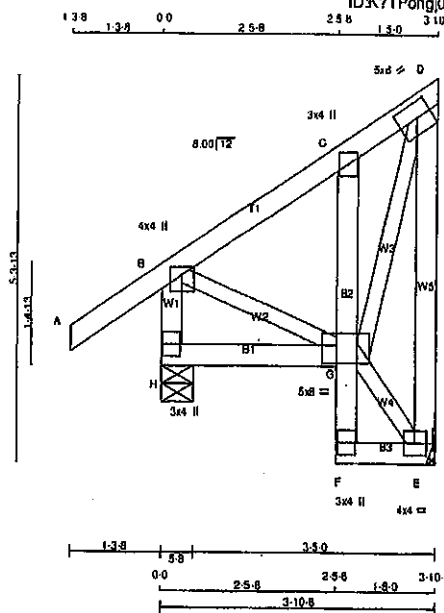
Structural component only  
DWG# T-2007127

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169                          | J20S       | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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Scale = 1/29.0



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

| PLATES (tablets in inches) |        |      |                   |
|----------------------------|--------|------|-------------------|
| JT TYPE                    | PLATES | W    | LEN Y X           |
| B                          | TMVW+p | MT20 | 4.0 4.0 1.25 2.00 |
| C                          | TMVW+p | MT20 | 3.0 4.0           |
| D                          | TMVW+p | MT20 | 5.0 8.0 2.50 2.50 |
| E                          | BMVW+p | MT20 | 4.0 4.0           |
| F                          | BMVW+p | MT20 | 3.0 4.0           |
| G                          | BMVW+p | MT20 | 5.0 8.0 3.00 2.50 |
| H                          | BMVW+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        | DOWN             | HORIZ | UPLIFT |
| H              | 332              | 0     | 332    |
| E              | 208              | 0     | 208    |

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

| UNFACTORED REACTIONS |         |                     |            |
|----------------------|---------|---------------------|------------|
| 1ST CASE             | MAX/MIN | COMPONENT REACTIONS |            |
| JT COMBINED          | SNOW    | LIVE                | PERM. LIVE |
| H                    | 232     | 168                 | 0          |
| E                    | 145     | 95                  | 0          |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
TOTAL LOAD CASES: (5)

| CHORDS |               |            |          |
|--------|---------------|------------|----------|
| MEMB.  | MAX. FACTORED | VERT. LOAD | LC1 MAX  |
| FR-TO  | FORCE (LBS)   | FROM TO    | CS1 (LC) |
| H-B    | -307          | 0.0        | 0.0      |
| A-B    | 0/35          | -91.8      | -91.8    |
| B-C    | -83           | -91.8      | -91.8    |
| C-D    | -100          | -91.8      | -91.8    |
| H-G    | 0/0           | -18.5      | -18.5    |
| F-G    | 0/12          | 0.0        | 0.0      |
| G-C    | -218          | 0.0        | 0.0      |
| F-E    | 0/9           | -18.5      | -18.5    |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

| SPECIFIED LOADS: |    |      |          |
|------------------|----|------|----------|
| TOP CH.          | LL | =    | 25.6 PSF |
| BOT CH.          | LL | =    | 0.0 PSF  |
|                  | DL | =    | 7.4 PSF  |
| TOTAL LOAD       | =  | 39.0 | 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 CBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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")

CSI: TC=0.14/1.00 (A-B:5), BC=0.04/1.00 (G-H:4),  
WB=0.08/1.00 (D-E:1), SS=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

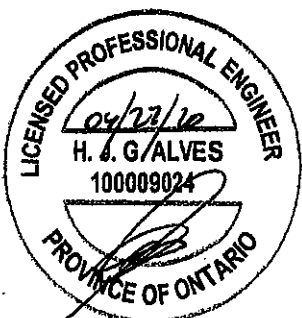
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

NAIL VALUES  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1987 1888

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.80)  
JSI METAL = 0.07 (C) (INPUT = 1.00)



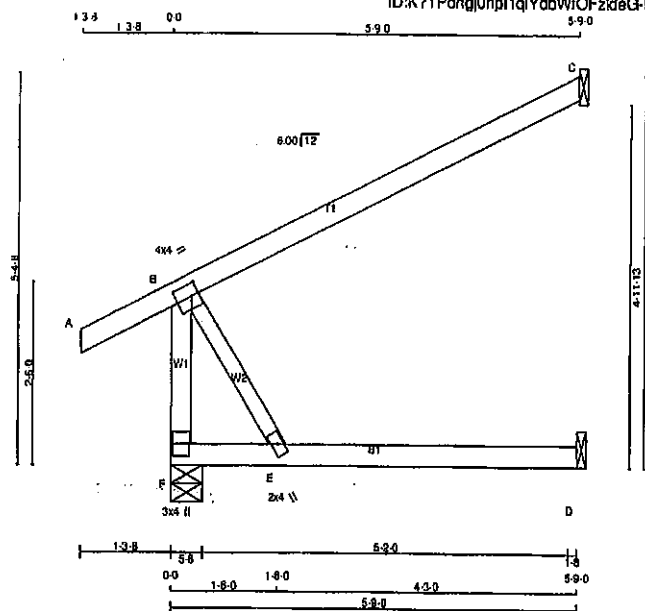
Structural component only  
DWG# T-2007143

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | J40        | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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Scale = 1/2" = 1'-0"



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

| PLATES (table in inches) |        |        |     |     |           |
|--------------------------|--------|--------|-----|-----|-----------|
| JT                       | TYPE   | PLATES | W   | LEN | Y X       |
| B                        | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| E                        | BMV-w  | MT20   | 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 RECD |
|          |                         |                                 |            |
| F        | 441 0                   | 441 0                           | 5-8 5-8    |
| C        | 284 0                   | 284 0                           | 1-8 1-8    |
| D        | 53 0                    | 60 0                            | 1-8 1-8    |

SEE MITEK STANDARD DETAIL B97781H FOR CONNECTION TO JOINT(S) C, D

| UNFACTORED REACTIONS |          |                               |       |       |            |        |       |
|----------------------|----------|-------------------------------|-------|-------|------------|--------|-------|
| JT                   | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND   | DEAD  |
| F                    | 310      | 217 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 93 / 0 | 0 / 0 |
| C                    | 182      | 147 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 35 / 0 | 0 / 0 |
| D                    | 43       | 0 / 0                         | 0 / 0 | 0 / 0 | 0 / 0      | 43 / 0 | 0 / 0 |

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

**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 |                           |                               |                |
|--------|---------------------------|-------------------------------|----------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LGI (PLF) | MAX. CS1 (LC)  |
| FR-TO  |                           |                               |                |
| F-B    | -388 / 0                  | 0.0                           | 0.05 (1)       |
| A-B    | 0 / 28                    | -91.8                         | -91.8 0.12 (1) |
| B-C    | 0 / 0                     | -91.8                         | -91.8 0.52 (1) |
| F-E    | 0 / 0                     | -18.5                         | -18.5 0.14 (4) |
| E-D    | 0 / 0                     | -18.5                         | -18.5 0.18 (4) |

| WEBS  |                           |               |                       |
|-------|---------------------------|---------------|-----------------------|
| MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) | UNBRACED LENGTH FR-TO |
| B-E   | 0 / 0                     | 0.00 (1)      |                       |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN. CG**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPC 2011, TPC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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 (0.05")

CS1: TC=0.52/1.00 (B-C:1), BC=0.18/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS1=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

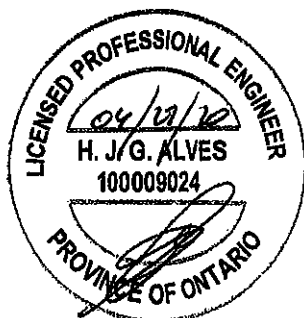
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 364 1887 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.90)  
JSI METAL = 0.07 (B) (INPUT = 1.00)

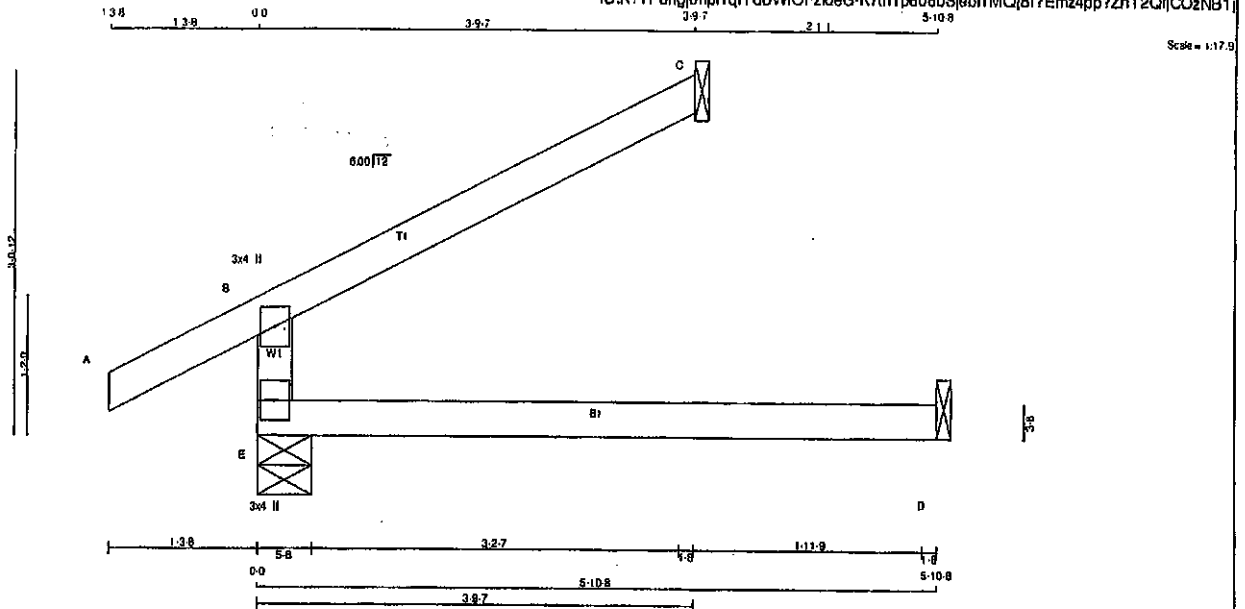


Structural component only  
DWG# T-2007167

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408170   | C40        | 3        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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| <u>LUMBER</u>         |     |      |        |  |       |
|-----------------------|-----|------|--------|--|-------|
| 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 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 |
|----------|----------------|------------------|-------|------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
|          | VERT           | HORZ             | DOWN  | HORZ |
|          | UPLIFT         | IN-SX            | IN-SX |      |
| JT       | 405            | 0                | 405   | 0    |
| E        | 130            | 0                | 130   | 0    |
| C        | 45             | 0                | 45    | 0    |
| D        | 45             | 0                | 45    | 0    |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

| UNFACTORED REACTIONS |           |                             |      |           |      |      |
|----------------------|-----------|-----------------------------|------|-----------|------|------|
|                      | 1ST LCASE | MAX/MIN COMPONENT REACTIONS |      |           |      |      |
| JT                   | COMBINED  | SNOW                        | LIVE | PERM.LIVE | WIND | DEAD |
| E                    | 285       | 190/0                       | 0/0  | 0/0       | 0/0  | 98/0 |
| C                    | 90        | 73/0                        | 0/0  | 0/0       | 0/0  | 17/0 |
| D                    | 38        | 0/0                         | 0/0  | 0/0       | 0/0  | 38/0 |

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: (4)

| CHORDS |                           |                           | WEBS  |               |                        |                       |
|--------|---------------------------|---------------------------|-------|---------------|------------------------|-----------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1   | MAX. CSI (LC) | MEMB. MAX. FORCE (LBS) | FACTORED MAX CSI (LC) |
| FR-TO  |                           | FROM TO                   |       | UNBRAC LENGTH | FR-TO                  |                       |
| E-B    | -342/0                    | 0.0                       | 0.0   | 0.13 (4)      | 7.81                   |                       |
| A-B    | 0/28                      | -91.8                     | -91.8 | 0.12 (1)      | 10.00                  |                       |
| B-C    | -19/0                     | -91.8                     | -91.8 | 0.22 (1)      | 8.25                   |                       |
| E-D    | 0/0                       | -18.5                     | -18.5 | 0.13 (4)      | 10.00                  |                       |

TOTAL WEIGHT = 3 X 14 = 42 lb

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN. OC**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCO 2010, NBCO 2012, ABC 2019  
- PART 9 OF NBCO 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

(55% OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.03")

CSI: TO=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (N/A:0), SS=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

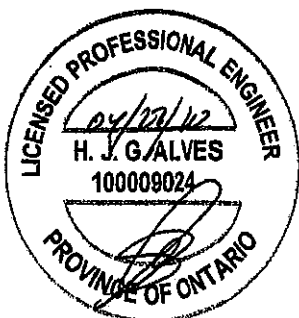
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

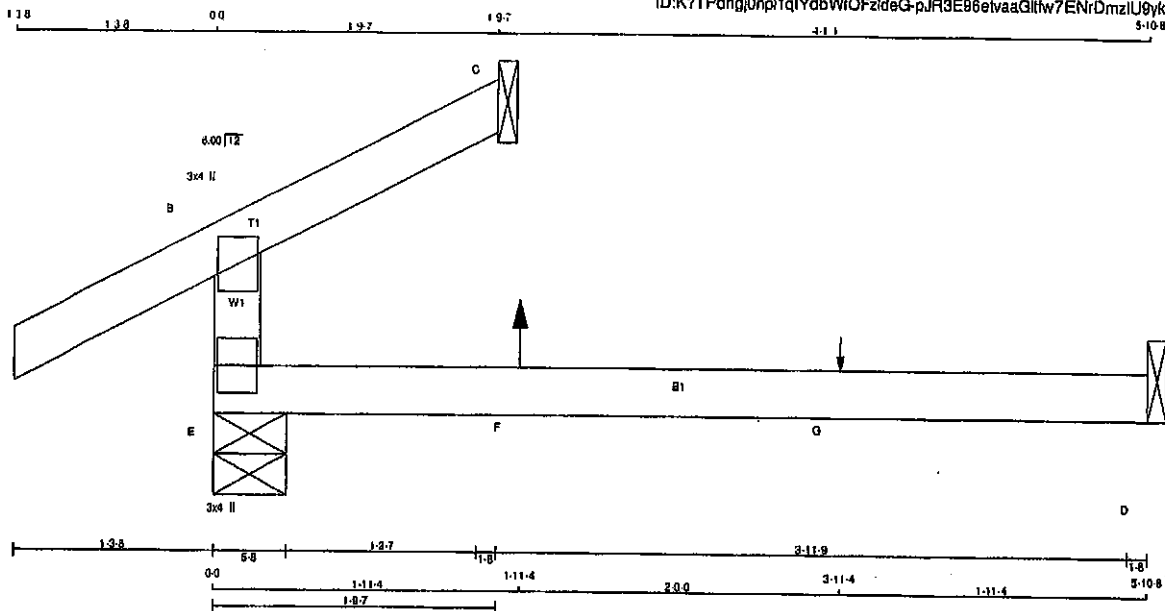
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)  
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007162

|                                                                                    |            |          |     |                  |          |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170                                                                             | C41        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                    |            |          |     | TRUSS DESC.      |          |
| Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 13:02:08 2020 Page 1 |            |          |     |                  |          |
| ID:K7TPdhg0np1q1YdbWIOFzideG-pJR3E86etvaaGltiw7ENrDmziU9yk01G34PGkrzNB1i           |            |          |     |                  |          |



|                   |      |        |        |
|-------------------|------|--------|--------|
| <b>LUMBER</b>     |      |        |        |
| N. L. G. A. RULES |      |        |        |
| CHORDS            | SIZE | LUMBER | DESCR. |
| E - B             | 2x4  | DRY    | No.2   |
| A - O             | 2x4  | DRY    | No.2   |
| E - D             | 2x4  | DRY    | No.2   |

DRY: SEASONED LUMBER.

|                                 |       |        |           |
|---------------------------------|-------|--------|-----------|
| <b>PLATES (table in inches)</b> |       |        |           |
| JT                              | TYPE  | PLATES | W LEN Y X |
| B                               | TMV+p | MT20   | 3.0 4.0   |
| E                               | BMV+p | MT20   | 3.0 4.0   |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQD BRG |  |
|----|-------------------------|------|---------------------------------|------|-----------|-------|----------|--|
|    | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT    | IN-SX | IN-SX    |  |
| E  | 284                     | 0    | 284                             | 0    | 0         | 5-8   | 5-8      |  |
| C  | 83                      | 0    | 83                              | 0    | 0         | 1-8   | 1-8      |  |
| D  | 44                      | 0    | 52                              | 0    | 0         | 1-8   | 1-8      |  |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST LOASE |       | MAX/MIN. COMPONENT REACTIONS |           | WIND | DEAD | SOIL |
|----|-----------|-------|------------------------------|-----------|------|------|------|
|    | COMBINED  | SNOW  | LIVE                         | PERM.LIVE |      |      |      |
| E  | 200       | 137/0 | 0/0                          | 0/0       | 0/0  | 62/0 | 0/0  |
| C  | 48        | 21/0  | 0/0                          | 0/0       | 0/0  | 25/0 | 0/0  |
| D  | 35        | 0/3   | 0/0                          | 0/0       | 0/0  | 37/0 | 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. | CHORDS           |                  | FACTORED |          | WEBS              |     | FACTORED |     |
|-------|------------------|------------------|----------|----------|-------------------|-----|----------|-----|
|       | MAX. FORCE (LBS) | VERT. LOAD (PLF) | LC1      | MAX      | MEMB. FORCE (LBS) | MAX | LC1      | MAX |
| FR-TO |                  |                  |          |          |                   |     |          |     |
| E-B   | 227/0            | 0.0              | 0.0      | 0.11 (4) | 7.81              |     |          |     |
| A-B   | 0/28             | -91.8            | -91.8    | 0.12 (1) | 10.00             |     |          |     |
| B-C   | -9/8             | -91.8            | -91.8    | 0.08 (4) | 10.00             |     |          |     |
| E-F   | 0/0              | -18.5            | -18.5    | 0.14 (4) | 10.00             |     |          |     |
| F-G   | 0/0              | -18.5            | -18.5    | 0.14 (4) | 10.00             |     |          |     |
| G-D   | 0/0              | -18.5            | -18.5    | 0.14 (4) | 10.00             |     |          |     |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|------|------|-------|------|-------|
| F  | 1-11-4 | 7   | 1    | 12   | BACK | VERT | TOTAL | --   | CI    |
| G  | 3-11-4 | 1   | 1    | --   | BACK | VERT | TOTAL | --   | CI    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 3 X 12 = 35 lb

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBCC 2016

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA 086-08, CSA 086-14  
- TPI 2011, TPI 2014

#### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/800 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4),  
WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)

DOL LUMBER=0.08 NAIL=0.08 LB BEND=1.10  
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (PL) | SECTION (PL) |
|------------------|------------|--------------|
| MT20             | 618        | 354          |
| MT20             | 1887       | 788          |
| MT20             | 1887       | 1658         |

PLATE PLACEMENT TOL. = 0.250 inches

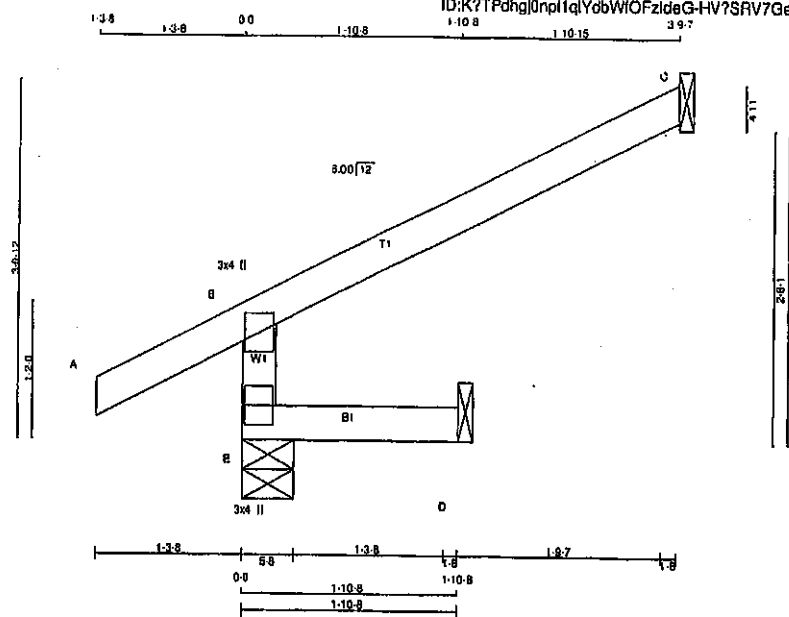
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)  
JSI METAL = 0.08 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007163

|                                                                                    |            |          |     |                  |          |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170                                                                             | C42        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                    |            |          |     |                  |          |
| Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 13:02:10 2020 Page 1 |            |          |     |                  |          |
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| Scale = 1:10.2                                                                     |            |          |     |                  |          |



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

DRY: SEASONED LUMBER.

| PLATES (table in inches) | W    | LEN | Y   | X |
|--------------------------|------|-----|-----|---|
| JT TYPE                  | MT20 | 3.0 | 4.0 |   |
| 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   |
|----------|----------------|------------------|-------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | DOWN             | HORIZ | UPLIFT |
| E        | 381            | 0                | 381   | 0      |
| C        | 130            | 0                | 130   | 0      |
| D        | 16             | 0                | 17    | 0      |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| 1ST CASE | SNOW     | LIVE    | PERM. LIVE | WIND    | DEAD    | SOIL    |
|----------|----------|---------|------------|---------|---------|---------|
| JT       | COMBINED | FROM TO | FROM TO    | FROM TO | FROM TO | FROM TO |
| E        | 250      | 190 / 0 | 0 / 0      | 0 / 0   | 60 / 0  | 0 / 0   |
| C        | 90       | 73 / 0  | 0 / 0      | 0 / 0   | 17 / 0  | 0 / 0   |
| D        | 12       | 0 / 0   | 0 / 0      | 0 / 0   | 12 / 0  | 0 / 0   |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS |                           | WEBS                      |                                |                           |                                |
|--------|---------------------------|---------------------------|--------------------------------|---------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. UNBRAC. MEMB. FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. UNBRAC. MEMB. FORCE (LBS) |
| FR-TO  |                           | FROM TO                   | CSI (LC)                       | LENGTH                    | FR-TO                          |
| E-B    | -342 / 0                  | 0.0                       | 0.01 (4)                       | 7.81                      |                                |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.13 (8)                 | 10.00                     |                                |
| B-C    | -19 / 0                   | -91.8                     | -91.8 0.22 (1)                 | 8.25                      |                                |
| E-D    | 0 / 0                     | -18.5                     | -18.5 0.02 (4)                 | 10.00                     |                                |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCO 2010, NBCO 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

#### DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4),  
WB=0.00/1.00 (n/a:D), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES  
PLATE GRIP(DRV) SHEAR SECTION  
(PS) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.90)  
JSI METAL = 0.09 (B) (INPUT = 1.00)

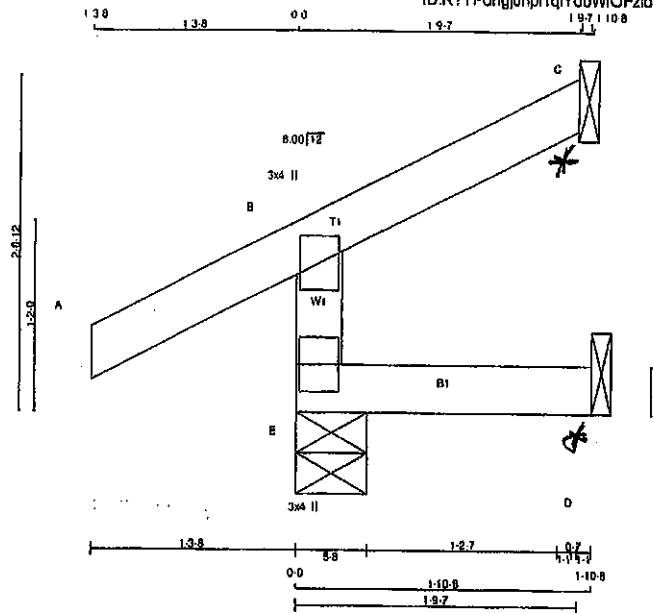


Structural component only  
DWG# T-2007164

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | C43        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:K?TPdhgJ0np1qIYdbWIOFzIdaG-IiZqir8uPWqIV2011YHrwesJqIs\_CwXvKOUmNpizNB1g

Scale = 1/16"



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

DRY: SEASONED LUMBER.

| PLATES (table 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 REGR BRG |
| E        | 271                     | 271                             | 0              |
| C        | 45                      | 45                              | 0              |
| D        | 8                       | 17                              | 0              |

SEE MITEK STANDARD DETAIL B97791H 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 CASE | MAX. MIN. COMPONENT REACTIONS | SOIL  |
| E                    | 188      | 141 / 0                       | 0 / 0 |
| C                    | 31       | 24 / -18                      | 0 / 0 |
| D                    | 7        | 0 / -8                        | 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

| CHORDS |                           |                           |                        |
|--------|---------------------------|---------------------------|------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) |
| E-B    | -244 / 0                  | 0.0                       | 0.04 (5)               |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)         |
| B-C    | -17 / 0                   | -91.8                     | -91.8 0.09 (1)         |
| E-D    | 0 / 0                     | -18.5                     | -18.5 0.04 (5)         |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.6 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. O.C.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2016

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2018 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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")

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5), WB=0.00/1.00 (n/a:0), SS1=0.09/1.00 (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 1607 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)  
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007165

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

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

## Standard and Double-Shear Joist Hangers



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

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

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

**Material:** See table on pp. 258–259.

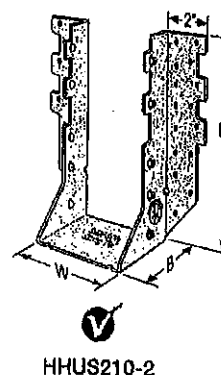
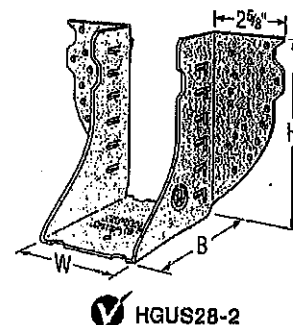
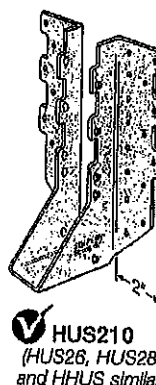
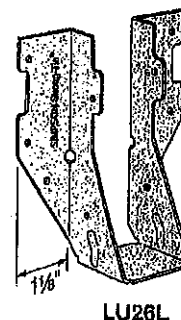
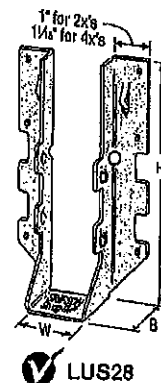
**Finish:** Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

### Installation:

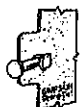
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

### Options:

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



Double-Shear  
Nailing  
Top View

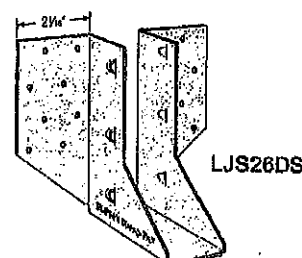
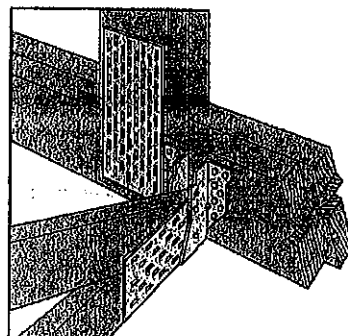


Double-Shear  
Nailing  
Side View;  
Do not  
bend tab



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

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



Plated Truss Connectors

**LUL/LUS/LJS/HUS/HHUS/HGUS****SIMPSON**  
**Strong-Tie****HHUS/HGUS**

See Hanger Options Information on pp. 125–127.

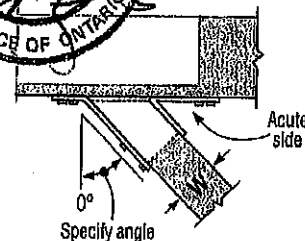
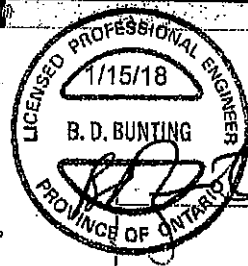
**HHUS — Sloped and/or Skewed Seat**

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

**HGUS — Skewed Seat**

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

| HGUS Seat Width | Joist               | Down Resistance     | Uplift              |
|-----------------|---------------------|---------------------|---------------------|
| W < 2"          | Bevel or square cut | 0.82 of table value | 0.46 of table value |
| 2" < W < 6"     | Bevel cut           | 0.67 of table value | 0.41 of table value |
| 2" < W < 6"     | Square cut          | 0.46 of table value | 0.41 of table value |
| W > 6"          | Bevel cut           | 0.75 of table value | 0.41 of table value |



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

**Standard and Double-Shear Joist Hangers (cont.)**

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

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

| Model No.              | Ga. | Dimensions (in.) |       |       |                             | Fasteners |                  | Factored Resistance     |                         |                         |                         |
|------------------------|-----|------------------|-------|-------|-----------------------------|-----------|------------------|-------------------------|-------------------------|-------------------------|-------------------------|
|                        |     | W                | H     | B     | d <sub>g</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                      |
| <b>Single 2x Sizes</b> |     |                  |       |       |                             |           |                  |                         |                         |                         |                         |
| LUS24                  | 18  | 1 1/8            | 3 1/2 | 1 1/4 | 2 1/4                       | (4) 10d   | (2) 10d          | 710                     | 1625                    | 845                     | 1155                    |
|                        |     |                  |       |       |                             |           |                  | 3.16                    | 7.23                    | 2.87                    | 5.14                    |
| LU24L                  | 22  | 1 1/8            | 3     | 1 1/4 | 2 1/4                       | (4) 10d   | (2) 10d x 1 1/2" | 360                     | 1020                    | 320                     | 725                     |
|                        |     |                  |       |       |                             |           |                  | 1.60                    | 4.54                    | 1.42                    | 3.22                    |
| LU26L                  | 22  | 1 1/8            | 5     | 1 1/4 | 4 1/4                       | (6) 10d   | (4) 10d x 1 1/2" | 720                     | 1605                    | 645                     | 1140                    |
|                        |     |                  |       |       |                             |           |                  | 3.20                    | 7.14                    | 2.87                    | 5.07                    |
| LUS26                  | 18  | 1 1/8            | 4 1/4 | 1 1/4 | 3 1/4                       | (4) 10d   | (4) 10d          | 1420                    | 2170                    | 1290                    | 1630                    |
|                        |     |                  |       |       |                             |           |                  | 6.32                    | 9.65                    | 5.74                    | 7.25                    |
| HUS26                  | 16  | 1 1/8            | 5 1/4 | 3     | 3 1/4                       | (14) 16d  | (8) 16d          | 2705                    | 4940                    | 2065                    | 3875                    |
|                        |     |                  |       |       |                             |           |                  | 11.80                   | 21.97                   | 9.20                    | 17.24                   |
| LJS26DS                | 18  | 1 1/8            | 5     | 3 1/2 | 4 1/4                       | (16) 16d  | (8) 16d          | 2055                    | 4265                    | 1480                    | 4115                    |
|                        |     |                  |       |       |                             |           |                  | 9.14                    | 18.97                   | 6.49                    | 18.31                   |
| HGUS26                 | 12  | 1 1/8            | 5 1/4 | 5     | 4 1/4                       | (20) 16d  | (8) 16d          | 2885                    | 6625                    | 2685                    | 5700                    |
|                        |     |                  |       |       |                             |           |                  | 11.98                   | 29.51                   | 11.96                   | 25.35                   |
| LU28L                  | 20  | 1 1/8            | 6 1/4 | 1 1/4 | 5 1/4                       | (8) 10d   | (8) 10d x 1 1/2" | 1140                    | 2185                    | 1020                    | 1550                    |
|                        |     |                  |       |       |                             |           |                  | 5.07                    | 9.72                    | 4.54                    | 6.89                    |
| LUS28                  | 18  | 1 1/8            | 6 1/4 | 1 1/4 | 3 3/4                       | (6) 10d   | (4) 10d          | 1420                    | 2520                    | 1290                    | 1790                    |
|                        |     |                  |       |       |                             |           |                  | 6.32                    | 11.21                   | 5.74                    | 7.98                    |
| HUS28                  | 16  | 1 1/8            | 7 1/4 | 3     | 6 1/4                       | (22) 16d  | (8) 16d          | 3605                    | 5365                    | 2675                    | 4345                    |
|                        |     |                  |       |       |                             |           |                  | 16.04                   | 23.86                   | 11.90                   | 19.33                   |
| HGUS28                 | 12  | 1 1/8            | 7 1/4 | 5     | 6 1/4                       | (36) 16d  | (12) 16d         | 3310                    | 7675                    | 3310                    | 6900                    |
|                        |     |                  |       |       |                             |           |                  | 14.74                   | 34.19                   | 14.74                   | 30.73                   |
| LU210L                 | 20  | 1 1/8            | 8     | 1 1/4 | 7 1/4                       | (10) 10d  | (8) 10d x 1 1/2" | 1140                    | 2495                    | 1020                    | 1770                    |
|                        |     |                  |       |       |                             |           |                  | 5.07                    | 11.10                   | 4.54                    | 7.87                    |
| LUS210                 | 18  | 1 1/8            | 7 1/4 | 1 1/4 | 3 3/4                       | (8) 10d   | (4) 10d          | 1420                    | 2785                    | 1290                    | 2210                    |
|                        |     |                  |       |       |                             |           |                  | 6.32                    | 12.39                   | 5.74                    | 9.83                    |

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>g</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-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

## Face-Mount Hangers

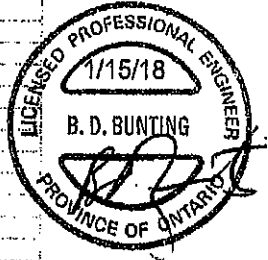
**SIMPSON**  
**Strong-Tie**

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

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

| Model No.          | Ga. | Dimensions (in.) |        |   |                             | Fasteners |          | Factored Resistance            |                                |                                |                                |
|--------------------|-----|------------------|--------|---|-----------------------------|-----------|----------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
|                    |     | W                | H      | B | d <sub>a</sub> <sup>3</sup> | Header    | Joist    | D.Fir-L                        |                                | S-P-F                          |                                |
|                    |     |                  |        |   |                             |           |          | Uplift                         | Normal                         | Uplift                         | Normal                         |
|                    |     |                  |        |   |                             |           |          | (K <sub>p</sub> = 1.15)<br>lb. | (K <sub>p</sub> = 1.00)<br>lb. | (K <sub>p</sub> = 1.15)<br>lb. | (K <sub>p</sub> = 1.00)<br>lb. |
|                    |     |                  |        |   |                             |           |          | kN                             | kN                             | kN                             | kN                             |
| Double 2x Sizes    |     |                  |        |   |                             |           |          |                                |                                |                                |                                |
| LUS24-2            | 18  | 3 1/8            | 3 1/8  | 2 | 1 1/2                       | (4) 18d   | (2) 18d  | 835                            | 2020                           | 590                            | 1435                           |
| SS LUS26-2         | 18  | 3 1/8            | 4 1/8  | 2 | 4                           | (4) 16d   | (4) 16d  | 3.71                           | 8.99                           | 2.62                           | 6.38                           |
| HHUS28-2           | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8                       | (14) 16d  | (6) 16d  | 1720                           | 2595                           | 1545                           | 1920                           |
| HGUS28-2           | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 7.65                           | 11.54                          | 6.87                           | 8.54                           |
| SS LUS28-2         | 18  | 3 1/8            | 7      | 2 | 4                           | (6) 18d   | (4) 16d  | 2850                           | 7335                           | 2065                           | 5205                           |
| HHUS28-2           | 14  | 3 1/8            | 7 1/8  | 3 | 6 1/8                       | (22) 18d  | (8) 16d  | 12.68                          | 32.63                          | 9.20                           | 23.15                          |
| HGUS28-2           | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 18d | 4385                           | 8950                           | 3110                           | 6355                           |
| SS LUS210-2        | 18  | 3 1/8            | 9      | 2 | 6                           | (8) 18d   | (6) 16d  | 19.51                          | 39.81                          | 13.83                          | 28.27                          |
| HHUS210-2          | 14  | 3 1/8            | 9 1/8  | 3 | 8                           | (30) 16d  | (10) 16d | 1720                           | 3325                           | 1545                           | 2575                           |
| HGUS210-2          | 12  | 3 1/8            | 9 1/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 7.65                           | 14.79                          | 6.87                           | 11.46                          |
|                    |     |                  |        |   |                             |           |          | 3765                           | 8940                           | 2675                           | 6345                           |
|                    |     |                  |        |   |                             |           |          | 16.75                          | 39.77                          | 11.90                          | 28.22                          |
|                    |     |                  |        |   |                             |           |          | 6070                           | 12980                          | 4310                           | 9215                           |
|                    |     |                  |        |   |                             |           |          | 27.00                          | 57.74                          | 19.17                          | 40.99                          |
|                    |     |                  |        |   |                             |           |          | 2580                           | 4500                           | 2320                           | 3195                           |
|                    |     |                  |        |   |                             |           |          | 11.48                          | 20.02                          | 10.32                          | 14.21                          |
|                    |     |                  |        |   |                             |           |          | 4670                           | 9600                           | 4235                           | 7000                           |
|                    |     |                  |        |   |                             |           |          | 20.77                          | 42.97                          | 18.84                          | 31.14                          |
|                    |     |                  |        |   |                             |           |          | 6840                           | 14015                          | 4855                           | 10270                          |
|                    |     |                  |        |   |                             |           |          | 30.43                          | 62.34                          | 21.60                          | 45.69                          |
| Triple 2x Sizes    |     |                  |        |   |                             |           |          |                                |                                |                                |                                |
| HGUS26-3           | 12  | 4 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 18d  | (8) 16d  | 4385                           | 8950                           | 3110                           | 6355                           |
| HGUS28-3           | 12  | 4 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 19.51                          | 39.81                          | 13.83                          | 28.27                          |
| HHUS210-3          | 14  | 4 1/8            | 9      | 3 | 7 1/8                       | (30) 16d  | (10) 16d | 6070                           | 12980                          | 4310                           | 9215                           |
| HGUS210-3          | 12  | 4 1/8            | 9 1/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 27.00                          | 57.74                          | 19.17                          | 40.99                          |
|                    |     |                  |        |   |                             |           |          | 4670                           | 9670                           | 4235                           | 6965                           |
|                    |     |                  |        |   |                             |           |          | 20.77                          | 49.02                          | 19.84                          | 30.54                          |
|                    |     |                  |        |   |                             |           |          | 6840                           | 14645                          | 4855                           | 10400                          |
|                    |     |                  |        |   |                             |           |          | 30.43                          | 65.14                          | 21.60                          | 46.28                          |
| Quadruple 2x Sizes |     |                  |        |   |                             |           |          |                                |                                |                                |                                |
| HGUS28-4           | 12  | 6 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                           | 8950                           | 3110                           | 6355                           |
| HGUS28-4           | 12  | 6 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 19.51                          | 39.81                          | 13.83                          | 28.27                          |
| HHUS210-4          | 14  | 8 1/8            | 8 1/8  | 3 | 7 1/8                       | (30) 18d  | (10) 18d | 6070                           | 12980                          | 4310                           | 9215                           |
| HGUS210-4          | 12  | 6 1/8            | 9 1/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 27.00                          | 57.74                          | 19.17                          | 40.99                          |
| HGUS212-4          | 12  | 6 1/8            | 10 1/8 | 4 | 10 1/8                      | (56) 18d  | (20) 18d | 4070                           | 10155                          | 4235                           | 7210                           |
| HGUS214-4          | 12  | 6 1/8            | 12 1/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 20.77                          | 45.17                          | 18.84                          | 32.07                          |
|                    |     |                  |        |   |                             |           |          | 6840                           | 14645                          | 4855                           | 10400                          |
|                    |     |                  |        |   |                             |           |          | 30.43                          | 65.14                          | 21.60                          | 46.28                          |
|                    |     |                  |        |   |                             |           |          | 7640                           | 14995                          | 5425                           | 10845                          |
|                    |     |                  |        |   |                             |           |          | 33.98                          | 66.70                          | 24.13                          | 47.35                          |
|                    |     |                  |        |   |                             |           |          | 10130                          | 18400                          | 7195                           | 11645                          |
|                    |     |                  |        |   |                             |           |          | 45.08                          | 72.95                          | 32.00                          | 51.80                          |
| 4x Sizes           |     |                  |        |   |                             |           |          |                                |                                |                                |                                |
| LUS46              | 18  | 3 1/8            | 4 1/8  | 2 | 3 1/8                       | (4) 16d   | (4) 18d  | 1720                           | 2595                           | 1545                           | 1920                           |
| HHUS46             | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8                       | (14) 16d  | (6) 18d  | 7.65                           | 11.54                          | 6.87                           | 8.54                           |
| HGUS48             | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 2540                           | 7335                           | 2065                           | 5205                           |
| LUS48              | 18  | 3 1/8            | 6 1/8  | 2 | 3 1/8                       | (6) 18d   | (4) 18d  | 11.30                          | 32.63                          | 9.20                           | 23.15                          |
| HHUS48             | 14  | 3 1/8            | 7 1/8  | 3 | 6 1/8                       | (22) 16d  | (8) 18d  | 4385                           | 8950                           | 3110                           | 6355                           |
| HGUS48             | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 19.51                          | 39.81                          | 13.83                          | 28.27                          |
| LUS410             | 18  | 3 1/8            | 8 1/8  | 2 | 5 1/8                       | (8) 16d   | (6) 16d  | 1720                           | 3325                           | 1545                           | 2575                           |
| HHUS410            | 14  | 3 1/8            | 9 1/8  | 3 | 8 1/8                       | (30) 16d  | (10) 16d | 7.65                           | 14.79                          | 6.87                           | 11.46                          |
| HGUS410            | 12  | 3 1/8            | 9 1/8  | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 3765                           | 8940                           | 2675                           | 6345                           |
| HGUS412            | 12  | 3 1/8            | 10 1/8 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 16.75                          | 39.77                          | 11.90                          | 28.22                          |
| HGUS414            | 12  | 3 1/8            | 12 1/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 6070                           | 12980                          | 4310                           | 9215                           |
|                    |     |                  |        |   |                             |           |          | 27.00                          | 57.74                          | 19.17                          | 40.99                          |
|                    |     |                  |        |   |                             |           |          | 2580                           | 4500                           | 2320                           | 3195                           |
|                    |     |                  |        |   |                             |           |          | 11.48                          | 20.02                          | 10.32                          | 14.21                          |
|                    |     |                  |        |   |                             |           |          | 6840                           | 14015                          | 4855                           | 10270                          |
|                    |     |                  |        |   |                             |           |          | 30.43                          | 62.34                          | 21.60                          | 45.69                          |
|                    |     |                  |        |   |                             |           |          | 7640                           | 14995                          | 5425                           | 10845                          |
|                    |     |                  |        |   |                             |           |          | 33.98                          | 66.70                          | 24.13                          | 47.35                          |
|                    |     |                  |        |   |                             |           |          | 10130                          | 18400                          | 7195                           | 11645                          |
|                    |     |                  |        |   |                             |           |          | 45.08                          | 72.95                          | 32.00                          | 51.80                          |

See footnotes on p. 268.



Plated Truss Connectors

## TC - Truss Connectors

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

The TC truss connector is an ideal connector for adjoiner trusses and can allow horizontal movement up to 1 1/4". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

**Material:** 16 gauge

**Finish:** G90 galvanized

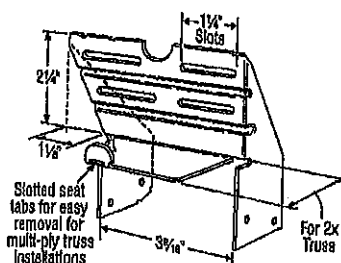
**Design:** Factored resistances are in accordance with CSA 086-14

### Installation:

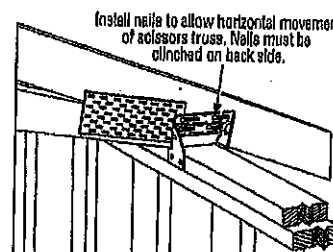
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside and is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

### Optional TC Installation:

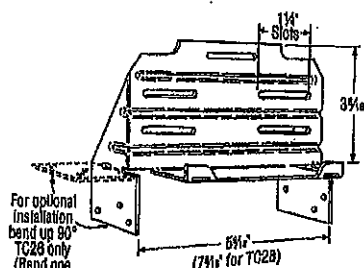
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



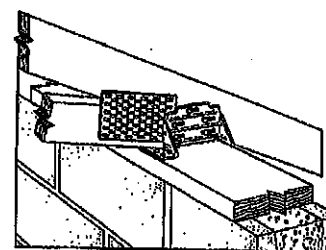
**TC24**  
U.S. Patent 4,992,173



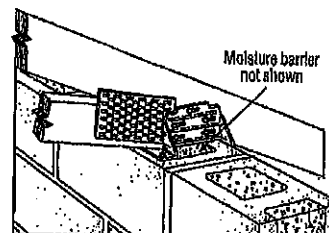
Typical TC24 Installation



**TC26**  
(TC28 Similar)



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC26 Installation for Grouted Concrete Block using Titen Screws

| Model No. | Fasteners |             | Factored Resistance              |                                  |
|-----------|-----------|-------------|----------------------------------|----------------------------------|
|           | Truss     | Wall Plates | D.Fir-L                          | S-P-F                            |
|           |           |             | Uplift<br>(K <sub>o</sub> =1.15) | Uplift<br>(K <sub>o</sub> =1.15) |
| TC24      | (4) 10d   | (4) 10d     | 805                              | 430                              |
| TC26      | (5) 10d   | (6) 10d     | 1015                             | 720                              |
| TC28      | (5) 10d   | (6) 10d     | 1015                             | 720                              |

### Optional TC Installation Table

| Model No. | Fasteners |                  | Factored Resistance              |                                  |
|-----------|-----------|------------------|----------------------------------|----------------------------------|
|           | Truss     | Wall Plates      | D.Fir-L                          | S-P-F                            |
|           |           |                  | Uplift<br>(K <sub>o</sub> =1.15) | Uplift<br>(K <sub>o</sub> =1.15) |
| TC26      | (5) 10d   | (6) 10d x 1 1/2" | 810                              | 660                              |
|           | (5) 10d   | (6) 10d          | 930                              | 660                              |

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (6) - 9/16" x 2 1/4" Titen screws has a factored uplift resistance of 275 lb.



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**H/TSP****SIMPSON**  
**Strong-Tie****Seismic and Hurricane Ties (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. | Fasteners        |               |              | Factored Resistance ( $K_D = 1.15$ ) |                |                |        |                |                |
|----------------------|-----|------------------|---------------|--------------|--------------------------------------|----------------|----------------|--------|----------------|----------------|
|                      |     |                  |               |              | D.Fir-L                              |                |                | S-P-F  |                |                |
|                      |     | To Rafters/Truss | To Plates     | To Studs     | Uplift                               | Lateral        |                | Uplift | Lateral        |                |
|                      |     |                  |               |              |                                      | F <sub>1</sub> | F <sub>2</sub> |        | F <sub>1</sub> | F <sub>2</sub> |
|                      |     |                  |               |              | lb.                                  | lb.            | lb.            | lb.    | lb.            | lb.            |
|                      |     |                  |               |              | kN                                   | kN             | kN             | kN     | kN             | kN             |
| H1                   | 18  | (6) 8d x 1½"     | (4) 8d        | —            | 740                                  | 685            | 300            | 680    | 485            | 215            |
|                      |     |                  |               |              | 3.29                                 | 3.05           | 1.33           | 3.02   | 2.16           | 0.98           |
| SS H2A               | 18  | (5) 8d x 1½"     | (2) 8d x 1½"  | (5) 8d x 1½" | 830                                  | 220            | 75             | 580    | 155            | 65             |
|                      |     |                  |               |              | 3.69                                 | 0.98           | 0.33           | 2.62   | 0.69           | 0.24           |
| SS H2.5A             | 18  | (5) 8d           | (5) 8d        | —            | 805                                  | 160            | 160            | 755    | 160            | 160            |
|                      |     |                  |               |              | 3.58                                 | 0.71           | 0.71           | 3.36   | 0.71           | 0.71           |
| H2.5T                | 18  | (5) 8d           | (5) 8d        | —            | 835                                  | 175            | 210            | 740    | 180            | 210            |
|                      |     |                  |               |              | 3.71                                 | 0.78           | 0.93           | 3.29   | 0.71           | 0.93           |
| SS H3                | 18  | (4) 8d           | (4) 8d        | —            | 740                                  | 180            | 285            | 615    | 125            | 190            |
|                      |     |                  |               |              | 3.29                                 | 0.80           | 1.18           | 2.74   | 0.56           | 0.86           |
| H6                   | 16  | —                | (8) 8d        | (8) 8d       | 1585                                 | 1085           | —              | 1125   | 770            | —              |
|                      |     |                  |               |              | 7.05                                 | 4.83           | —              | 5.00   | 3.43           | —              |
| H7Z                  | 16  | (4) 8d           | (2) 8d        | (8) 8d       | 1390                                 | 670            | —              | 990    | 475            | —              |
|                      |     |                  |               |              | 6.18                                 | 2.98           | —              | 4.40   | 2.11           | —              |
| SS H8 <sup>2</sup>   | 18  | (5) 10d x 1½"    | (5) 10d x 1½" | —            | 1120                                 | —              | —              | 1025   | —              | —              |
|                      |     |                  |               |              | 4.98                                 | —              | —              | 4.58   | —              | —              |
| SS H10A <sup>3</sup> | 18  | (9) 10d x 1½"    | (9) 10d x 1½" | —            | 1735                                 | 795            | 410            | 1505   | 565            | 290            |
|                      |     |                  |               |              | 7.72                                 | 3.54           | 1.82           | 6.69   | 2.51           | 1.29           |
| H10AR                | 18  | (9) 10d x 1½"    | (9) 10d x 1½" | —            | 1485                                 | 690            | 430            | 1220   | 570            | 305            |
|                      |     |                  |               |              | 6.61                                 | 3.07           | 1.91           | 5.43   | 2.54           | 1.36           |
| H10A-2               | 18  | (9) 10d x 1½"    | (9) 10d x 1½" | —            | 1835                                 | 1275           | 430            | 1845   | 880            | 305            |
|                      |     |                  |               |              | 8.18                                 | 5.67           | 1.91           | 7.32   | 3.91           | 1.36           |
| H10S <sup>7,8</sup>  | 18  | (8) 8d x 1½"     | (8) 8d x 1½"  | (8) 8d       | 1485                                 | 795            | 315            | 1040   | 585            | 225            |
|                      |     |                  |               |              | 6.52                                 | 3.54           | 1.40           | 4.63   | 2.51           | 1.00           |
| H11Z                 | 18  | (8) 16d x 2½"    | (6) 16d x 2½" | —            | 1095                                 | 920            | 545            | 780    | 655            | 390            |
|                      |     |                  |               |              | 4.87                                 | 4.09           | 2.42           | 3.47   | 2.91           | 1.73           |
| H14                  | 18  | ① (12) 8d x 1½"  | (13) 8d       | —            | 2390                                 | 855            | 320            | 1805   | 610            | 230            |
|                      |     |                  |               |              | 10.63                                | 3.80           | 1.42           | 8.03   | 2.71           | 1.02           |
|                      |     | ② (12) 8d x 1½"  | (15) 8d       | —            | 2390                                 | 855            | 320            | 1805   | 610            | 230            |
|                      |     |                  |               |              | 10.63                                | 3.80           | 1.42           | 8.03   | 2.71           | 1.02           |
| TSP                  | 18  | (9) 10d x 1½"    | (6) 10d x 1½" | —            | 1295                                 | 440            | —              | 920    | 310            | —              |
|                      |     |                  |               |              | 5.76                                 | 1.98           | —              | 4.09   | 1.38           | —              |
|                      |     | (9) 10d x 1½"    | (6) 10d       | —            | 1560                                 | 440            | —              | 1105   | 310            | —              |
|                      |     |                  |               |              | 6.94                                 | 1.98           | —              | 4.92   | 1.38           | —              |

- Factored resistances have been increased 16% for short term loading; no further increase is allowed.
- Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
- H8 factored uplift resistances for stud-to-bottom plate installations are 695 lb. (2.65 kN) for D.Fir-L and 390 lb. (1.74 kN) for S-P-F.
- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a continuous load path, connections at the top and bottom of this wall must be on the same side of the wall (see technical bulletin T-HTIECONPATH).
- Factored resistances in the F<sub>1</sub> direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.

- H10S can have the stud offset a maximum of 1" from the rafter (centre to centre) for a reduced uplift of 1435 lb. (6.38 kN) D.Fir-L and 1015 lb. (4.51 kN) S-P-F.
- H10S nails to plates are optional for uplift but required for lateral loads.
- H10A may be field-bent up to a slope of 8/12. Multiply the tabulated uplift value x 0.75. Full tabulated lateral resistances apply.
- The factored resistances of stainless-steel connectors match carbon-steel connectors when installed with Simpson Strong-Tie® stainless-steel, SCNR ring-shank nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.
- D.Fir-L/S-P-F factored uplift resistances for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using (5) 8d x 1½" nails into the top plates and (3) 8d x 1½" nails into the lowest three flange holes into the truss bottom chord is 485 lb. (2.20 kN).
- Nails: 16d x 2½" = 0.182" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long, 8d = 0.131" dia. x 2½" long, 8d x 1½" = 0.131" dia. x 1½" long. See pp. 27-28 for other nail sizes and information.

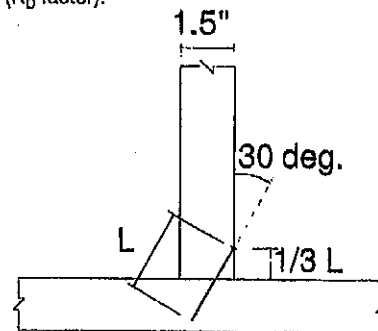
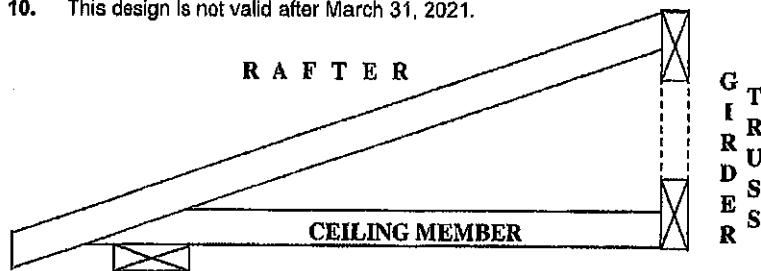
# BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

| NAIL TYPE        | LENGTH<br>(IN) | DIAMETER<br>(IN) | NAIL LATERAL CAPACITY (LB) |        |
|------------------|----------------|------------------|----------------------------|--------|
|                  |                |                  | S-P-F                      | D. FIR |
| COMMON<br>WIRE   | 3.00           | 0.144            | 132                        | 147    |
|                  | 3.25           | 0.144            | 132                        | 147    |
|                  | 3.50           | 0.160            | 159                        | 177    |
| COMMON<br>SPIRAL | 3.00           | 0.122            | 97                         | 108    |
|                  | 3.25           | 0.122            | 97                         | 108    |
|                  | 3.50           | 0.152            | 145                        | 162    |

## NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor  $J_A$  in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 ( $K_D$  factor).
8. Lumber must be dry ( < 19% moisture content ) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.



TOE-NAIL INSTALLATION

|                |                             |               |                       |               |
|----------------|-----------------------------|---------------|-----------------------|---------------|
| Nail type      | Common wire                 | Common spiral | Common wire           | Common spiral |
| Nail dia. (in) | 0.160                       | 0.152         | 0.144                 | 0.122         |
|                | ( 3.5" nail )               |               | ( 3" and 3.25" nail ) |               |
| LUMBER SIZE    | MAXIMUM NUMBER OF TOE-NAILS |               |                       |               |
| 2X4 SPF        | 2                           | 2             | 3                     | 3             |
| 2X4 D. Fir     | 2                           | 2             | 2                     | 2             |
| 2X6 SPF        | 4                           | 4             | 4                     | 5             |
| 2X6 D. Fir     | 3                           | 3             | 3                     | 4             |

**MiTek**® MiTek Canada Inc  
100 Industrial Rd.  
Bradford, Ontario L3Z 3G7

December 2, 2019



# BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

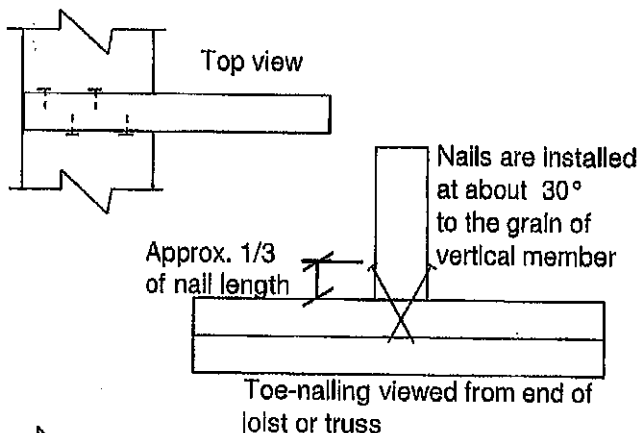
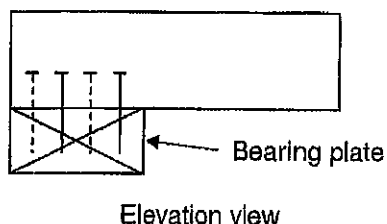
| NAIL TYPE        | LENGTH<br>(IN) | DIAMETER<br>(IN) | NAIL WITHDRAWAL CAPACITY (LB) |        |
|------------------|----------------|------------------|-------------------------------|--------|
|                  |                |                  | S-P-F                         | D. FIR |
| COMMON<br>WIRE   | 3.00           | 0.144            | 30                            | 42     |
|                  | 3.25           | 0.144            | 32                            | 45     |
|                  | 3.50           | 0.160            | 38                            | 52     |
| COMMON<br>SPIRAL | 3.00           | 0.122            | 26                            | 36     |
|                  | 3.25           | 0.122            | 28                            | 40     |
|                  | 3.50           | 0.152            | 36                            | 50     |

**Note:** If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

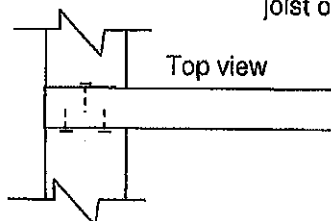
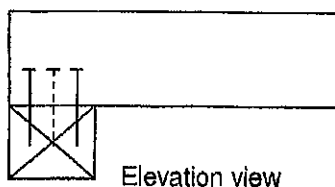
## NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor  $J_A$  in CSA O86-14, section 12.9.5.2.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities:  $G = 0.42$ (SPF),  $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry ( < 19% moisture content ) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

## Toe-nailing on 2x6 Bearing Plate



## Toe-nailing on 2x4 Bearing Plate



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Bradford, Ontario L3Z 3G7

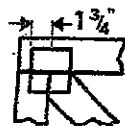
PEO  
Certificate No. 10889485.



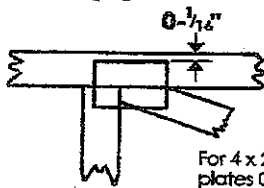
December 2, 2019

## 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.

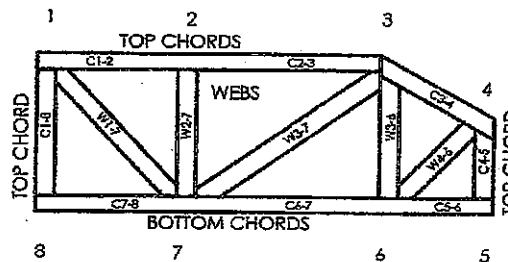
### Industry Standards:

- 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**  
POWER TO PERFORM.™

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

## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

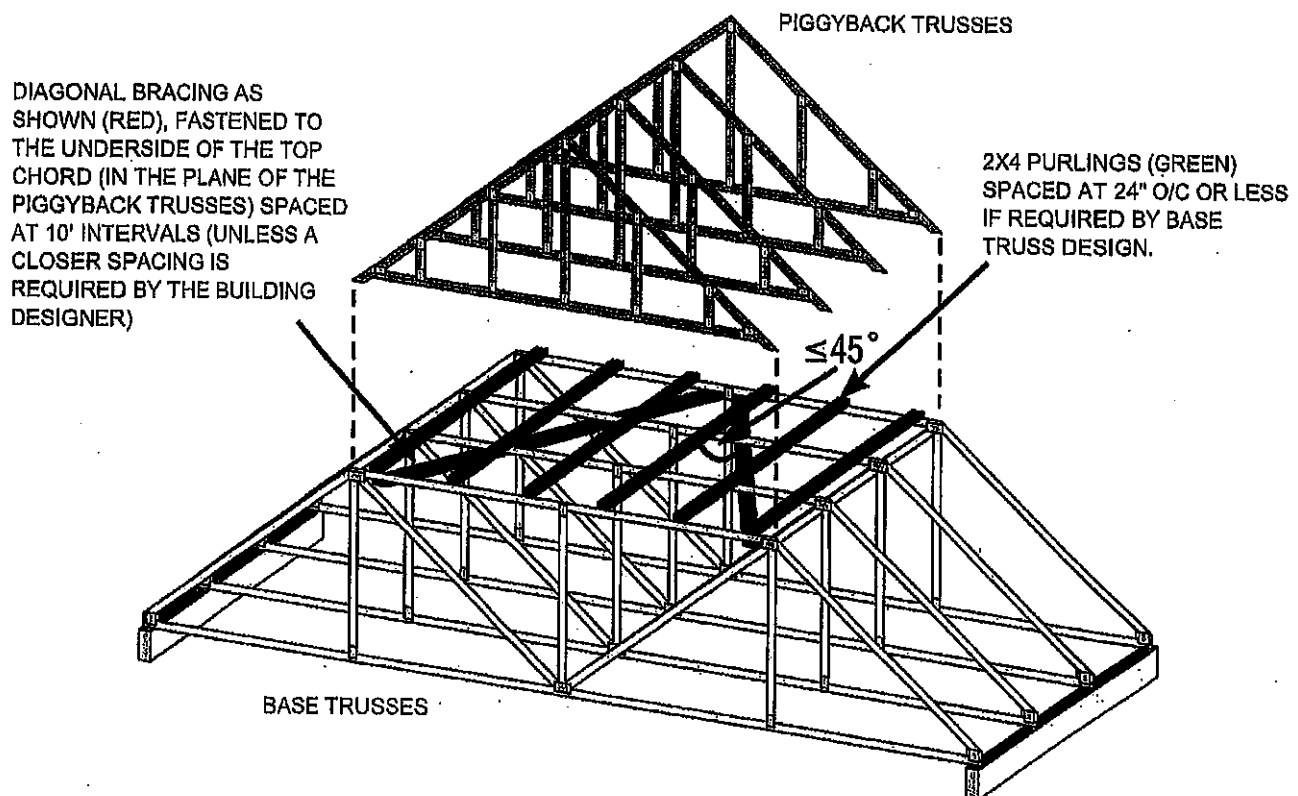
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
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.

Overview:

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

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

Detail:



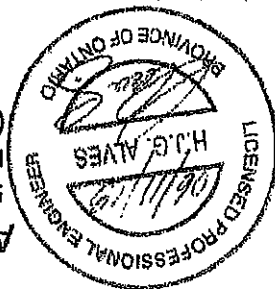
NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

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

**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 jurisdiction.
- 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 manufacturer's 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 Miltek sheet M117473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

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