

Permit No. 21-107196

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE  
THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH  
THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW  
These drawings and/or specifications have been reviewed by

*gn* 04/22/21  
FOR CHIEF BUILDING OFFICIAL DATE

10/12 roof pitch unless noted

ASPHALT SHINGLES  
FINISHED OVERHANG: 12"  
2x6 EXTERIOR WALLS  
2x6 FASCIA BOARD  
HEEL: R.T.M.C.

All conventional framing to conform with  
Part 9 of O.B.C. 2012 ( 2019 amendment).  
Roof rafters that cross over or meet trusses  
to be min. 2x4 SPF #2 @ 24" o/c with a  
vertical post to the truss at each cross  
point. Vertical posts longer than 6' to have  
lateral bracing so that the distance between  
the post end points and lateral bracing does  
not exceed 6'.

DESIGN CONFORMS WITH OBC 2012  
(2019 amendment ) OCCUPANCY:  
RESIDENTIAL | PART: 9  
Ss = 31.35 psf | Sr = 8.4 psf

DESIGN LOADS:

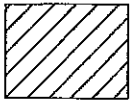
TCSL = 25.6 psf  
TCDL = 6.0 psf  
BCLL = 0.0 psf  
BCDL = 7.4 psf

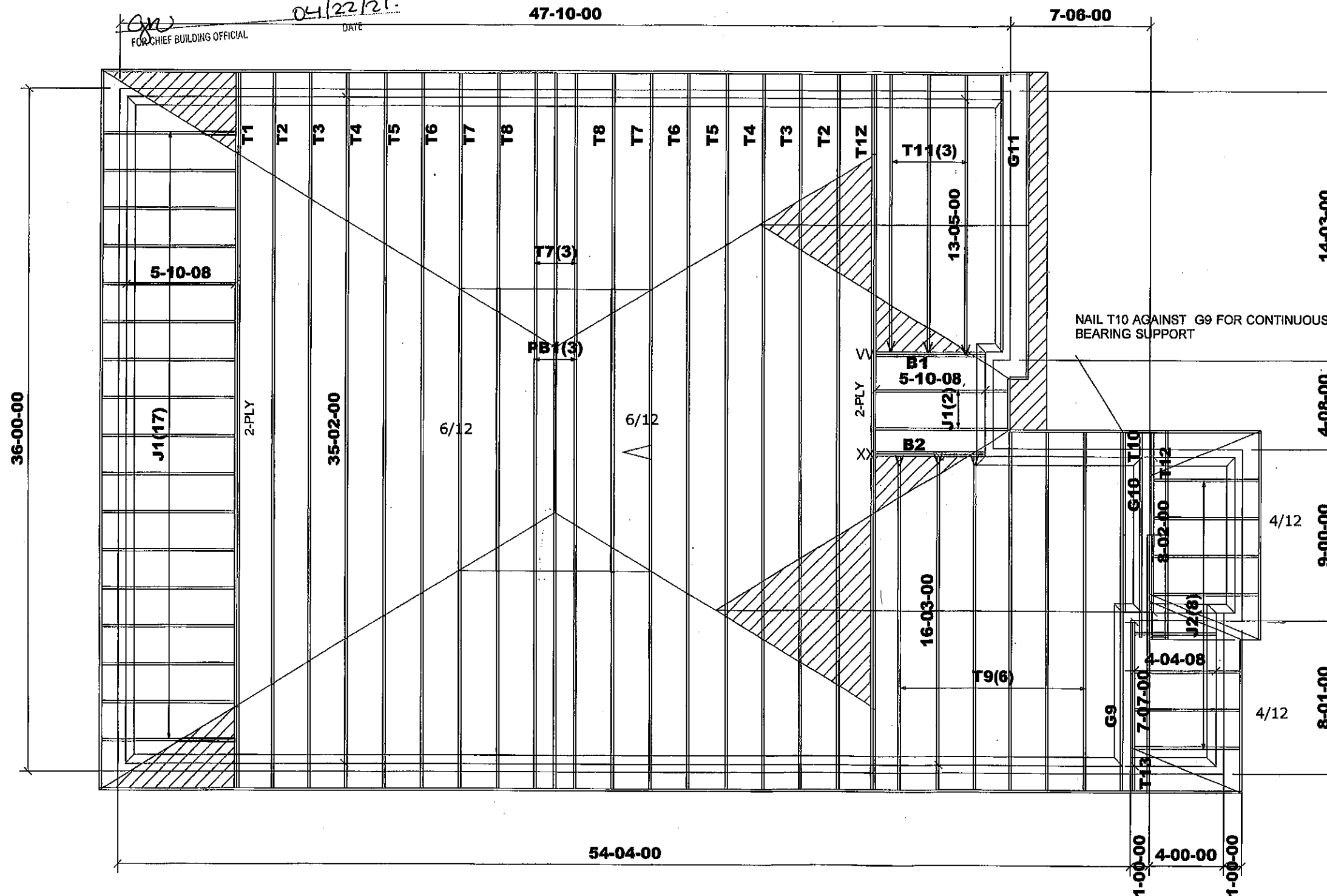
HARDWARE:

LUS24 - (O)  
LJS26DS - (V)  
HGUS26-2 - (XX)  
LUS26-2-(VV)

BEAMS:

B1= B2 = 2 - 2x10 SPF #2

 DENOTES:  
CONVENTIONAL  
FRAMING



M13126



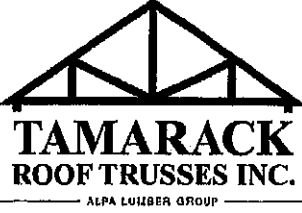
Job Track: **51225**  
Plan Log: **202406**  
Layout ID: **408168**

Builder / Location:  
**GREEN PARK HOMES / WATERDOWN**  
Project: **RUSSELL GARDENS PH.3**  
Date: 2020-04-27 Sales: **Mario DiCano** Designer: **JG**

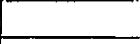
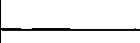
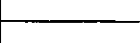
Model / Elevation:  
**MOUNTAINASH 5/1- STD OR OPT.5 BR**

Lot **276**

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REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY  
TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

|                                                                                                                                                                    |                                                                                                                                                                                          |                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  <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 #: 276<br>Elevation: 1- STD OR OPT.5 BR | Job Track: 51225<br>PlanLog: 202406<br>Layout ID: 408168<br>Ref #<br>Page: 1 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<br>2-ply | T1<br>Hip Girder  | 10 /12 | 35-02-00 | 4-01-11  | 2 x 6  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 365.29<br>218.00 |                     |                    |
|    | 1<br>2-ply | T1Z<br>Hip Girder | 10 /12 | 35-02-00 | 4-01-11  | 2 x 6  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 365.29<br>218.00 |                     |                    |
|    | 2          | T2<br>Hip         | 10 /12 | 35-02-00 | 5-01-04  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 293.44<br>185.67 |                     |                    |
|    | 2          | T3<br>Hip         | 10 /12 | 35-02-00 | 6-01-04  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 296.43<br>188.67 |                     |                    |
|  | 2          | T4<br>Hip         | 10 /12 | 35-02-00 | 7-01-04  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 323.09<br>204.33 |                     |                    |
|  | 2          | T5<br>Hip         | 10 /12 | 35-02-00 | 8-01-04  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 326.19<br>204.67 |                     |                    |
|  | 2          | T6<br>Hip         | 10 /12 | 35-02-00 | 9-01-04  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 363.03<br>228.67 |                     |                    |
|  | 5          | T7<br>Hip         | 10 /12 | 35-02-00 | 10-01-04 | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 866.6<br>540.00  |                     |                    |
|  | 2          | T8<br>Hip         | 10 /12 | 35-02-00 | 11-01-04 | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 380.36<br>236.67 |                     |                    |
|  | 6          | T9<br>Common      | 10 /12 | 16-03-00 | 8-04-15  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 480.92<br>308.00 |                     |                    |
|  | 1          | G9<br>GABLE       | 10 /12 | 16-03-00 | 8-04-15  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 81.49<br>53.33   |                     |                    |
|  | 1          | T10<br>Common     | 10 /12 | 8-02-00  | 5-00-08  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 38.47<br>25.83   |                     |                    |
|  | 1          | G10<br>GABLE      | 10 /12 | 8-02-00  | 5-00-08  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 40.07<br>27.83   |                     |                    |
|  | 3          | T11<br>Common     | 10 /12 | 13-05-00 | 7-02-12  | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 191.27<br>120.50 |                     |                    |

# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: RUSSELL GARDENS PH.3  
 Location: WATERDOWN  
 Model: MOUNTAINASH 5  
 Lot #: 276  
 Elevation: 1- STD OR OPT.5 BR

Job Track: 51225  
 PlanLog: 202406  
 Layout ID: 408168  
 Ref #  
 Page: 2 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          | G11<br>GABLE              | 10 / 12 | 13-05-00 | 7-02-12 | 2 x 4  | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-11           | 65.46<br>42.17  |                     |                    |
|         | 1          | T12<br>Hip Girder         | 10 / 12 | 8-02-00  | 2-02-08 | 2 x 4  | 1-03-08<br>1-03-08        | 1-00-07<br>1-00-07           | 34.43<br>25.33  |                     |                    |
|         | 1          | T13<br>Half Hip<br>Girder | 10 / 12 | 7-07-00  | 2-02-08 | 2 x 4  | 1-03-08                   | 1-00-07<br>1-09-07           | 31.77<br>22.50  |                     |                    |
|         | 3          | PB1<br>Piggyback          | 10 / 12 | 14-10-03 | 2-00-00 | 2 x 4  |                           |                              | 135.57<br>90.00 |                     |                    |
|         | 19         | 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           | 319.1<br>202.67 |                     |                    |
|         | 8          | J2<br>Jack-Open           | 4 / 12  | 4-04-08  | 2-02-08 | 2 x 4  | 1-03-08                   | 3-15<br>1-09-07              | 95.29<br>64.00  |                     |                    |

TOTAL # TRUSS= 66

TOTAL BFT OF ALL TRUSSES= 3206.84

BFT.

TOTAL WEIGHT OF ALL TRSSES 5093.55 LBS

## HARDWARE

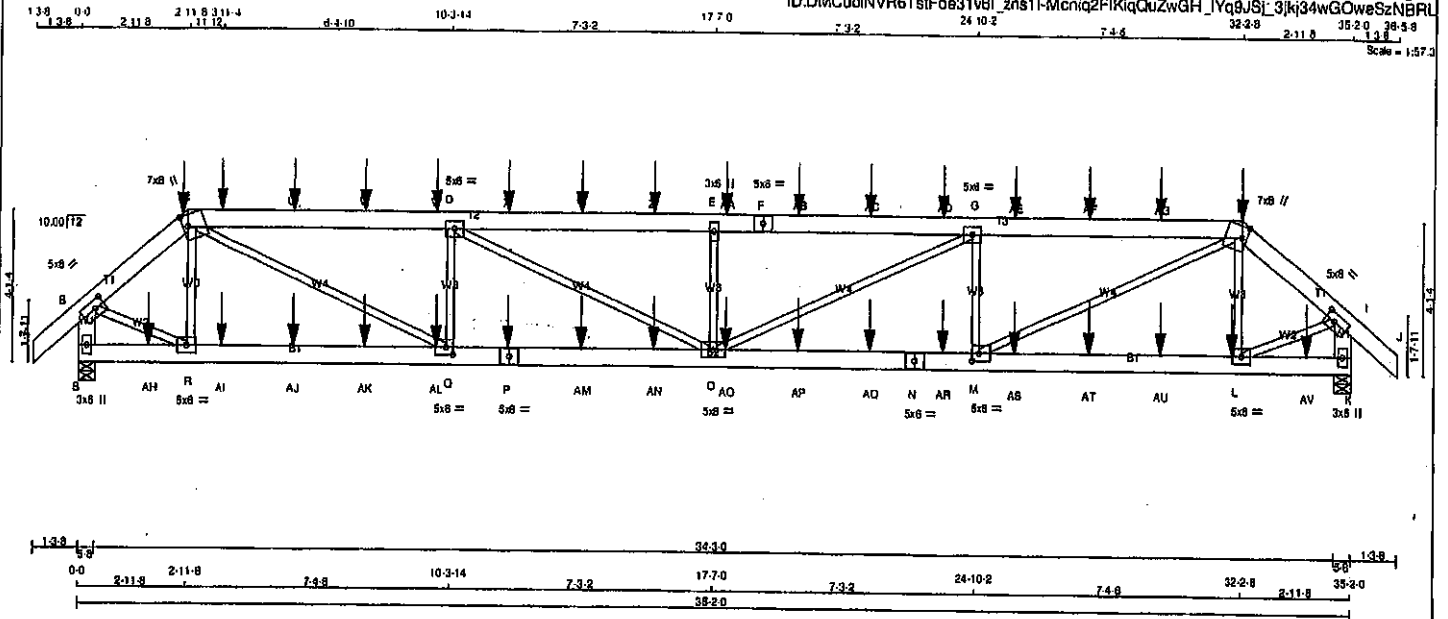
| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 1   | Hardware | HGUS28-2 |        |
| 5   | Hardware | LJS28DS  |        |
| 1   | Hardware | LUS28-2  |        |

TOTAL NUMBER OF  
ITEMS=

7

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|---------------------------------|------------|----------|-----|------------------|----------|
| 408168                          | T1         | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

Version 8.310.5 Oct 29 2019 MTAC Industries, Inc. Sat Apr 25 12:34:46 2020 Page 1  
ID:DMCubINVR6TstFos31v6l\_zns1l-Mcnig2FikQQuZwGH\_Yq9JSI\_3jk34wGOWeSzNBRL



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE       | LUMBER | DESCR. |
|--------|-------------------|--------|------------|--------|--------|
| A - C  | 2x6               | DRY    | No.2       | SPF    |        |
| C - F  | 2x6               | DRY    | No.2       | SPF    |        |
| F - H  | 2x6               | DRY    | No.2       | SPF    |        |
| H - J  | 2x6               | DRY    | No.2       | SPF    |        |
| J - K  | 2x6               | DRY    | No.2       | SPF    |        |
| K - L  | 2x6               | DRY    | No.2       | SPF    |        |
| L - M  | 2x6               | DRY    | 2100F 1.8E | SPF    |        |
| M - N  | 2x6               | DRY    | 2100F 1.8E | SPF    |        |
| N - K  | 2x6               | DRY    | 2100F 1.8E | SPF    |        |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122'X3") SPIRAL NAILS    |                      |           |
| A - C                                    | 2                    | 12        |
| C - F                                    | 2                    | 12        |
| F - H                                    | 2                    | 12        |
| H - J                                    | 2                    | 12        |
| J - K                                    | 2                    | 12        |
| K - L                                    | 2                    | 12        |
| BOTTOM CHORDS : (0.122'X3") SPIRAL NAILS |                      |           |
| S - P                                    | 2                    | 12        |
| P - N                                    | 2                    | 12        |
| N - K                                    | 2                    | 12        |
| 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.

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           | HORIZ            | DOWN  | HORIZ |
| S        | 3330           | 0                | 3330  | 0     |
| K        | 3379           | 0                | 3379  | 0     |

| UNFACTORED REACTIONS | 1ST LOASE | MAX/MIN  | COMPONENT REACTIONS |
|----------------------|-----------|----------|---------------------|
| JT                   | COMBINED  | SNOW     | LIVE                |
| S                    | 2354      | 1553 / 0 | 0 / 0               |
| K                    | 2388      | 1572 / 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 = 3.98 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.

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED   | WEBS  | MAX. FACTORED |
|--------|---------------|------------|-------|---------------|
| MEMB.  | FORCE         | VERT. LOAD | MEMB. | FORCE         |
| (LBS)  | (LBS)         | LC1        | (LBS) | (LBS)         |
|        |               | MAX        |       | MAX           |
|        |               | CS1 (LC)   |       | CS1 (LC)      |
| FR-TO  | FROM          | TO         | FR-TO | FROM          |
| A-B    | 0 / 42        | -91.8      | R-C   | -650 / 0      |
| B-C    | -3367 / 0     | -91.8      | C-Q   | 0 / 4509      |
| C-T    | -6802 / 0     | -91.8      | Q-D   | -1799 / 0     |
| T-U    | -6802 / 0     | -91.8      | D-O   | 0 / 1370      |
| U-V    | -6802 / 0     | -91.8      | O-E   | -997 / 0      |
| V-W    | -6802 / 0     | -91.8      | E-Q   | 0 / 1362      |
| W-D    | -6802 / 0     | -91.8      | Q-G   | -1787 / 0     |
| D-X    | -7826 / 0     | -91.8      | G-H   | 0 / 4481      |
| X-Y    | -7826 / 0     | -91.8      | H-I   | -681 / 0      |
| Y-Z    | -7826 / 0     | -91.8      | I-J   | 0 / 2736      |
| Z-E    | -7826 / 0     | -91.8      | J-L   | 0 / 2771      |
| E-AA   | -7826 / 0     | -91.8      |       |               |
| AA-F   | -7826 / 0     | -91.8      |       |               |
| F-AB   | -7826 / 0     | -91.8      |       |               |
| AB-AC  | -7826 / 0     | -91.8      |       |               |
| AC-AD  | -7826 / 0     | -91.8      |       |               |
| AD-G   | -7826 / 0     | -91.8      |       |               |
| G-AE   | -6808 / 0     | -91.8      |       |               |
| AE-AF  | -6808 / 0     | -91.8      |       |               |
| AF-AG  | -6808 / 0     | -91.8      |       |               |
| AG-H   | -6808 / 0     | -91.8      |       |               |
| H-I    | -3410 / 0     | -91.8      |       |               |
| I-J    | 0 / 42        | -91.8      |       |               |
| J-B    | -3375 / 0     | 0.0        |       |               |
| K-I    | -3414 / 0     | 0.0        |       |               |

|       |          |       |       |          |       |
|-------|----------|-------|-------|----------|-------|
| S-AH  | 0 / 0    | -18.5 | -18.5 | 0.05 (4) | 10.00 |
| AH-R  | 0 / 0    | -18.5 | -18.5 | 0.05 (4) | 10.00 |
| R-AI  | 0 / 2553 | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| AI-AJ | 0 / 2553 | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| AJ-AK | 0 / 2553 | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| AK-AL | 0 / 2553 | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| AL-Q  | 0 / 2553 | -18.5 | -18.5 | 0.12 (1) | 10.00 |
| Q-P   | 0 / 6802 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| P-AM  | 0 / 6802 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| AM-AN | 0 / 6802 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| AN-O  | 0 / 6802 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| O-AQ  | 0 / 6809 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| AQ-AP | 0 / 6809 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| AP-AQ | 0 / 6809 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| AQ-N  | 0 / 6809 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| N-AR  | 0 / 6809 | -18.5 | -18.5 | 0.22 (1) | 10.00 |
| AR-M  | 0 / 6809 | -18.5 | -18.5 | 0.22 (1) | 10.00 |

#### 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, 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/860 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.20")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/998 (0.37")

CSI: TC=0.42/1.00 (D-E:1), BC=0.22/1.00 (O-Q:1),  
WB=0.59/1.00 (C-Q:1), SSI=0.22/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(P.S.I) (P.LI) (P.LI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 789 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (H) (INPUT = 0.90)  
JSI METAL= 0.65 (N) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only  
DWG# T-2007129 1/2

| PLATES (tablets in inches) |        |        |     |     |           |
|----------------------------|--------|--------|-----|-----|-----------|
| JT                         | TYPE   | PLATES | W   | LEN | Y X       |
| B                          | TMVW-t | MT20   | 5.0 | 8.0 | 2.50 3.25 |
| C                          | TTWW+m | MT20   | 7.0 | 8.0 | 3.75 1.50 |
| D                          | TMVW-t | MT20   | 5.0 | 8.0 |           |
| E                          | TMVW-w | MT20   | 3.0 | 6.0 |           |
| F                          | TS-t   | MT20   | 5.0 | 8.0 |           |
| G                          | TMVW-t | MT20   | 5.0 | 8.0 |           |
| H                          | TTWW+m | MT20   | 7.0 | 8.0 | 3.75 1.50 |
| I                          | TMVW-t | MT20   | 5.0 | 8.0 | 2.50 3.25 |
| K                          | BMVt+p | MT20   | 3.0 | 6.0 |           |
| L                          | BMVW-t | MT20   | 5.0 | 8.0 |           |
| M                          | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 2.25 |
| N                          | BS-t   | MT20   | 5.0 | 8.0 |           |
| O                          | BMVW-t | MT20   | 5.0 | 8.0 |           |
| P                          | BS-t   | MT20   | 5.0 | 8.0 |           |
| Q                          | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 2.26 |
| R                          | BMVW-t | MT20   | 5.0 | 8.0 |           |
| S                          | BMVt+p | MT20   | 3.0 | 6.0 |           |

# LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS               |       |                           |                           |
|--------|---------------------------|---------------------------|---------------|--------------------|-------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | LC1 MAX (LBS) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) |
| FR-TO  |                           | FROM                      | TO            |                    | FR-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  | -191 | -191 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| H  | 32-2-8  | -38  | -42  | ---  | FRONT | VERT | DEAD  | ---  | C1    |
| H  | 32-2-8  | -118 | -118 | ---  | 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  | 8-11-4  | -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    |
| AC | 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    |

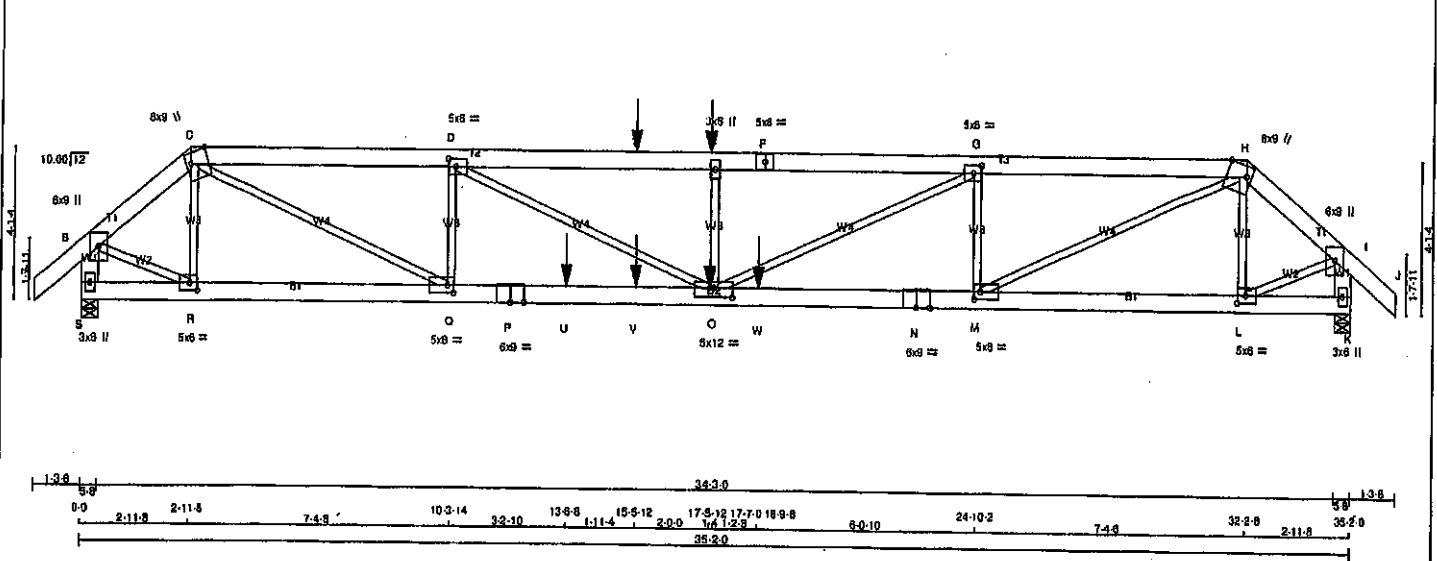
# CONNECTION REQUIREMENTS

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



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

Version 8.310.9 Oct 29 2019 Mitek Industries, Inc. Sat Apr 28 12:34:49 2020 Page 1  
 ID:DMCubINVR6TsiFoe31v6l\_zne1f-qoL41NGw50yHWISrpnNNrbzOizT47D9w8UBuzNBK  
 1.3-8 0-0 2.11-8 7.4-8 10-3-14 5-1-14 15-5-12 17-5-12 17-7-0 7.3-2 24-10-2 7.4-8 32-2-8 2.11-8 35-2-8 38-5-8 1.3-8  
 Scale = 1:57.3



| LUMBER            |     |      |            |  |        |
|-------------------|-----|------|------------|--|--------|
| N. L. G. A. RULES |     |      |            |  |        |
| CHORDS            |     | SIZE | LUMBER     |  | DESCR. |
| A - C             | 2x8 | 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  | 2100F 1.8E |  | SPF    |
| P - N             | 2x8 | DRY  | 2100F 1.8E |  | SPF    |
| N - K             | 2x8 | DRY  | 2100F 1.8E |  | SPF    |

ALL WEBS 2x3 DRY No.2 SPF  
 EXCEPT

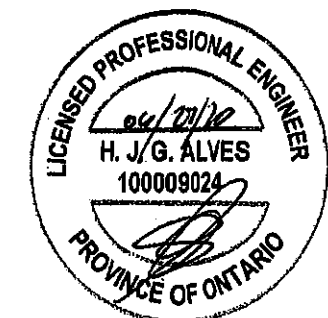
DRY: SEASONED LUMBER.  
 DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF)   |
|-----------------------------------------|----------------------|--------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |              |
| A-C 2                                   | 12                   | TOP          |
| C-F 2                                   | 12                   | SIDE (183.1) |
| 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                   | SIDE (197.8) |
| N-K 2                                   | 12                   | TOP          |
| 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 MN. 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-2007130 1/2

**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 | 3983                    | 3983                            | 0         | 5-8      |
| S VERT  | 3987                    | 3987                            | 0         | 5-8      |
| K VERT  | 3987                    | 3987                            | 0         | 5-8      |

**UNFACTORED REACTIONS**

| 1ST CASE      | MAX. MIN. COMPONENT REACTIONS |
|---------------|-------------------------------|
| JT COMBINED   | 2793                          |
| S COMBINED    | 1890 / 0                      |
| K COMBINED    | 2589                          |
| JT LIVE       | 0 / 0                         |
| S LIVE        | 0 / 0                         |
| K LIVE        | 0 / 0                         |
| JT PERM. LIVE | 0 / 0                         |
| S PERM. LIVE  | 0 / 0                         |
| K PERM. LIVE  | 0 / 0                         |
| JT WIND       | 902 / 0                       |
| S WIND        | 843 / 0                       |
| K WIND        | 843 / 0                       |
| JT DEAD       | 0 / 0                         |
| S DEAD        | 0 / 0                         |
| K DEAD        | 0 / 0                         |
| JT SOIL       | 0 / 0                         |
| S SOIL        | 0 / 0                         |
| K SOIL        | 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 = 3.20 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 |                           | FACTORED         |               | WEBS  |                           |
|--------|---------------------------|------------------|---------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  | 0 / 42                    | -91.8            | -91.8         | FR-TO | -1088 / 0                 |
| A-B    | -3986 / 0                 | -91.8            | -91.8         | C-Q   | 0 / 7283                  |
| B-C    | -3986 / 0                 | -91.8            | -91.8         | D-D   | -2160 / 0                 |
| C-D    | -3986 / 0                 | -91.8            | -91.8         | E-E   | 0 / 3130                  |
| D-E    | -12331 / 0                | -91.8            | -91.8         | F-F   | -776 / 0                  |
| E-F    | -12331 / 0                | -91.8            | -91.8         | G-G   | 0 / 4203                  |
| F-G    | -12331 / 0                | -91.8            | -91.8         | H-H   | -2613 / 0                 |
| G-H    | -12331 / 0                | -91.8            | -91.8         | I-I   | 0 / 8383                  |
| H-I    | -12331 / 0                | -91.8            | -91.8         | J-J   | -843 / 0                  |
| I-J    | -12331 / 0                | -91.8            | -91.8         | K-K   | 0 / 3239                  |
| J-K    | -12331 / 0                | -91.8            | -91.8         | L-L   | 0 / 3052                  |
| K-L    | -12331 / 0                | -91.8            | -91.8         |       |                           |
| S-R    | 0 / 0                     | -18.5            | -18.5         |       |                           |
| R-Q    | 0 / 3013                  | -18.5            | -18.5         |       |                           |
| Q-P    | 0 / 9534                  | -18.5            | -18.5         |       |                           |
| P-U    | 0 / 9534                  | -18.5            | -18.5         |       |                           |
| U-V    | 0 / 9534                  | -18.5            | -18.5         |       |                           |
| V-O    | 0 / 9534                  | -18.5            | -18.5         |       |                           |
| O-W    | 0 / 8575                  | -18.5            | -18.5         |       |                           |
| W-N    | 0 / 8575                  | -18.5            | -18.5         |       |                           |
| N-M    | 0 / 8575                  | -18.5            | -18.5         |       |                           |
| M-L    | 0 / 2844                  | -18.5            | -18.5         |       |                           |
| L-K    | 0 / 0                     | -18.5            | -18.5         |       |                           |

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LOI   | MAX.  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|------|------|-------|------|-------|
| E  | 17-5-12 | -110  | -110  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| O  | 17-5-12 | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| T  | 15-5-12 | -110  | -110  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| U  | 13-6-8  | -1615 | -1615 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| V  | 15-5-12 | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| W  | 18-9-8  | -1620 | -1620 | ---  | BACK | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
 TOP CH. LL = 25.8 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 0.0 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, 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/989 (0.36")  
 ALLOWABLE DEFL. (TL) = L/360 (1.17")  
 CALCULATED VERT. DEFL. (TL) = L/857 (0.84")

CSI: TC=0.52/1.00 (D-E:1), BC=0.67/1.00 (C-Q:1), WB=0.90/1.00 (C-Q:1), SI=0.53/1.00 (M-O:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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 815 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

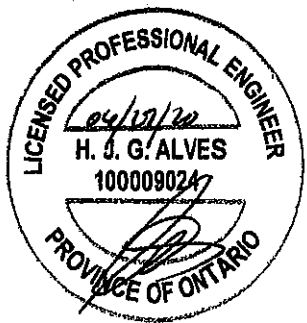
JSI GRIP = 0.89 (C) (INPUT = 0.90)  
 JSI METAL = 0.95 (P) (INPUT = 1.00)

|                                 |                   |               |          |                                                                                                                                                                  |          |
|---------------------------------|-------------------|---------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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 |                   |               |          | Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:34:49 2020 Page 2<br>ID:DMCubINVR8TstFoe31v6l zns1l-coL41NGw50vHWiVSrionNNrpxOlzT4?D9w8UBuzNBRK |          |

**PLATES** (table is in inches)

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMVW+p  | MT20   | 6.0 | 9.0  |      |      |
| C  | TTWW+m  | MT20   | 8.0 | 9.0  | Edge | 6.50 |
| D  | TMWW-l  | MT20   | 5.0 | 6.0  | 2.50 | 2.50 |
| E  | TMW+w   | MT20   | 3.0 | 6.0  |      |      |
| F  | TS-l    | MT20   | 5.0 | 6.0  |      |      |
| G  | TMWW-l  | MT20   | 5.0 | 6.0  | 2.50 | 2.50 |
| H  | TTWW+m  | MT20   | 8.0 | 9.0  | Edge | 6.50 |
| I  | TMVW+p  | MT20   | 6.0 | 9.0  |      |      |
| K  | BMVl+p  | MT20   | 3.0 | 6.0  |      |      |
| L  | BMWW-l  | MT20   | 5.0 | 6.0  | 2.50 | 2.75 |
| M  | BMWW-l  | MT20   | 5.0 | 6.0  | 2.50 | 2.00 |
| N  | BS-l    | MT20   | 6.0 | 9.0  |      |      |
| O  | BMWWW-l | MT20   | 5.0 | 12.0 | 3.00 | 6.00 |
| P  | BS-l    | MT20   | 6.0 | 9.0  |      |      |
| Q  | BMWW-l  | MT20   | 5.0 | 6.0  | 2.50 | 2.00 |
| R  | BMWW-l  | MT20   | 5.0 | 6.0  | 2.50 | 2.75 |
| S  | BMVl+p  | MT20   | 3.0 | 6.0  |      |      |

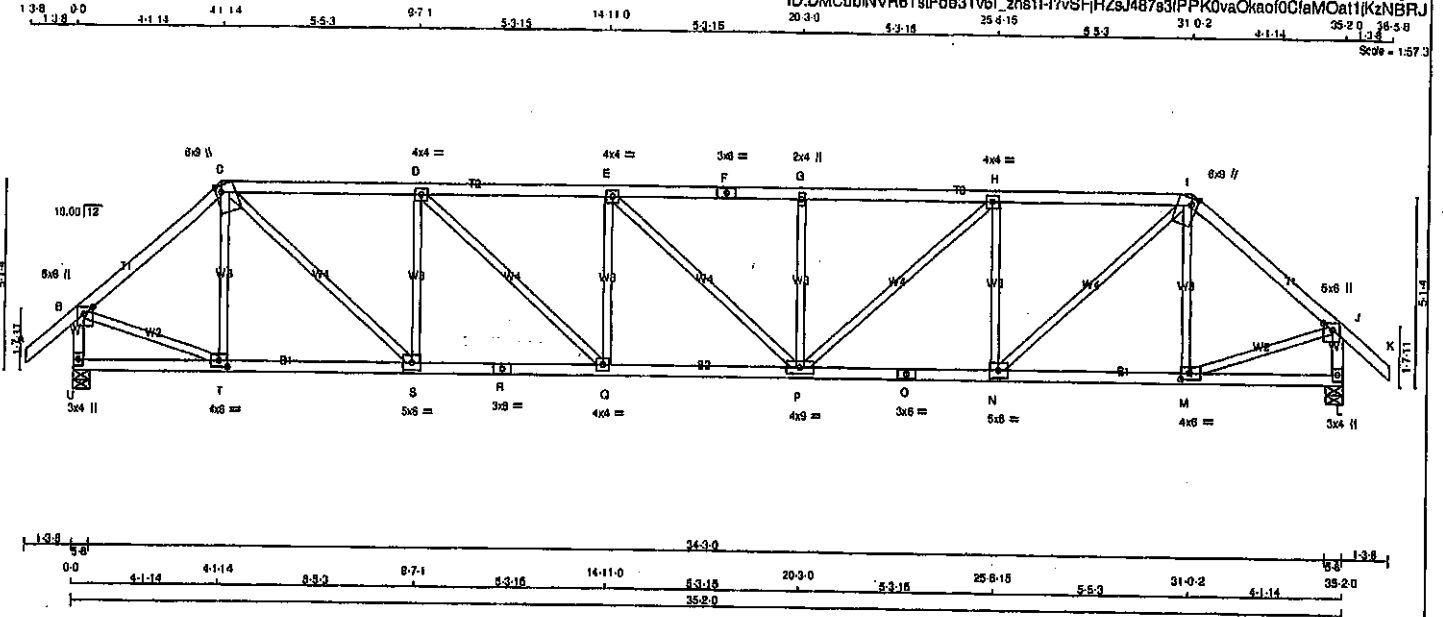
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.



Structural component only  
DWG# T-2007130 42

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                          | T2         | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:34:30 2020 Page 1  
 ID:DMCubINVR6TsFoe31v6I\_znst117vSFfHZsJ487s3lPPK0vaQkaof0CfaoM0at11KzNBRJ  
 35-20 35-58  
 Scale = 1:57.3



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

| PLATES (table in inches) |         |        |     |               |
|--------------------------|---------|--------|-----|---------------|
| JT                       | TYPE    | PLATES | W   | LEN Y X       |
| B                        | TMWW+p  | MT20   | 5.0 | 8.0 Edge 2.75 |
| C                        | TTWW+m  | MT20   | 8.0 | 9.0 Edge 1.75 |
| D, E, H                  |         |        |     |               |
| D                        | TMWW-i  | MT20   | 4.0 | 4.0           |
| F                        | TS-i    | MT20   | 3.0 | 8.0           |
| G                        | TMWW-w  | MT20   | 2.0 | 4.0           |
| I                        | TTWW+m  | MT20   | 8.0 | 9.0 Edge 1.75 |
| J                        | TMWW+p  | MT20   | 5.0 | 8.0 Edge 2.75 |
| L                        | BMV1+p  | MT20   | 3.0 | 4.0           |
| M                        | BMWW-i  | MT20   | 4.0 | 6.0 2.00 2.75 |
| N                        | BMWW-i  | MT20   | 5.0 | 6.0           |
| O                        | BS-i    | MT20   | 3.0 | 8.0           |
| P                        | BMWWW-i | MT20   | 4.0 | 9.0           |
| Q                        | BMWW-i  | MT20   | 4.0 | 4.0           |
| R                        | BS-i    | MT20   | 3.0 | 8.0           |
| S                        | BMWW-i  | MT20   | 5.0 | 8.0           |
| T                        | BMWW-i  | MT20   | 4.0 | 8.0 2.00 2.75 |
| 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 |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT   |
| U        | 2088 | 0                       | 2088                            | 0         | 5-8      |
| L        | 2088 | 0                       | 2088                            | 0         | 5-8      |

| UNFACTORED REACTIONS |          | 1ST LOASE | MAX. MIN. COMPONENT REACTIONS |
|----------------------|----------|-----------|-------------------------------|
| JT                   | COMBINED | SNOW      | LIVE                          |
| U                    | 1458     | 971 / 0   | 0 / 0                         |
| L                    | 1458     | 971 / 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 = 3.20 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

| CHORDS |                           |                           |                           | WEBS  |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED 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 / 41                    | -91.8                     | -91.8 0.13 (1)            | 10.00 | T-C                       | -358 / 0                  | 0.14 (1)                  |
| B-C    | -1960 / 0                 | -91.8                     | -91.8 0.38 (1)            | 4.46  | C-S                       | 0 / 1836                  | 0.41 (1)                  |
| C-D    | -2871 / 0                 | -91.8                     | -91.8 0.57 (1)            | 3.21  | D-Q                       | -1118 / 0                 | 0.43 (1)                  |
| D-E    | -3508 / 0                 | -91.8                     | -91.8 0.65 (1)            | 3.21  | Q-E                       | 0 / 858                   | 0.18 (1)                  |
| E-F    | -3505 / 0                 | -91.8                     | -91.8 0.53 (1)            | 3.36  | Q-E                       | -475 / 0                  | 0.18 (1)                  |
| F-G    | -3505 / 0                 | -91.8                     | -91.8 0.53 (1)            | 3.36  | E-P                       | -2 / 0                    | 0.00 (1)                  |
| G-H    | -3505 / 0                 | -91.8                     | -91.8 0.68 (1)            | 3.20  | P-Q                       | -474 / 0                  | 0.18 (1)                  |
| H-I    | -2871 / 0                 | -91.8                     | -91.8 0.57 (1)            | 3.59  | P-H                       | 0 / 853                   | 0.19 (1)                  |
| I-J    | -1860 / 0                 | -91.8                     | -91.8 0.38 (1)            | 4.46  | N-H                       | -1117 / 0                 | 0.43 (1)                  |
| J-K    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)            | 10.00 | N-I                       | 0 / 1837                  | 0.41 (1)                  |
| U-B    | -2037 / 0                 | 0.0                       | 0.0 0.22 (1)              | 5.92  | M-I                       | -358 / 0                  | 0.14 (1)                  |
| L-J    | -2037 / 0                 | 0.0                       | 0.0 0.22 (1)              | 5.92  | B-T                       | 0 / 1571                  | 0.35 (1)                  |
| U-T    | 0 / 0                     | -18.5                     | -18.5 0.10 (4)            | 10.00 | M-J                       | 0 / 1571                  | 0.35 (1)                  |
| T-S    | 0 / 1494                  | -18.5                     | -18.5 0.30 (1)            | 10.00 |                           |                           |                           |
| S-R    | 0 / 2871                  | -18.5                     | -18.5 0.61 (1)            | 10.00 |                           |                           |                           |
| R-Q    | 0 / 2871                  | -18.5                     | -18.5 0.51 (1)            | 10.00 |                           |                           |                           |
| Q-P    | 0 / 3508                  | -18.5                     | -18.5 0.62 (1)            | 10.00 |                           |                           |                           |
| P-O    | 0 / 2872                  | -18.5                     | -18.5 0.51 (1)            | 10.00 |                           |                           |                           |
| O-N    | 0 / 2872                  | -18.5                     | -18.5 0.51 (1)            | 10.00 |                           |                           |                           |
| N-M    | 0 / 1494                  | -18.5                     | -18.5 0.30 (1)            | 10.00 |                           |                           |                           |
| M-L    | 0 / 0                     | -18.5                     | -18.5 0.10 (4)            | 10.00 |                           |                           |                           |

TOTAL WEIGHT = 2 X 147 = 293 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 LD = 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 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) = U/999 (0.20)  
 ALLOWABLE DEFL.(TL) = L/360 (1.17)  
 CALCULATED VERT. DEFL.(TL) = U/999 (0.39)

CSI: TC=0.68/1.00 (G-H-I), BC=0.62/1.00 (P-Q-I),  
 WB=0.43/1.00 (D-S-I), SSI=0.23/1.00 (H-I-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION  
 (PS) (PL) (PL)  
 MAX MIN MAX MIN  
 MT20 610 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.80 (N) (INPUT = 0.80)  
 JSI METAL = 0.90 (O) (INPUT = 1.00)



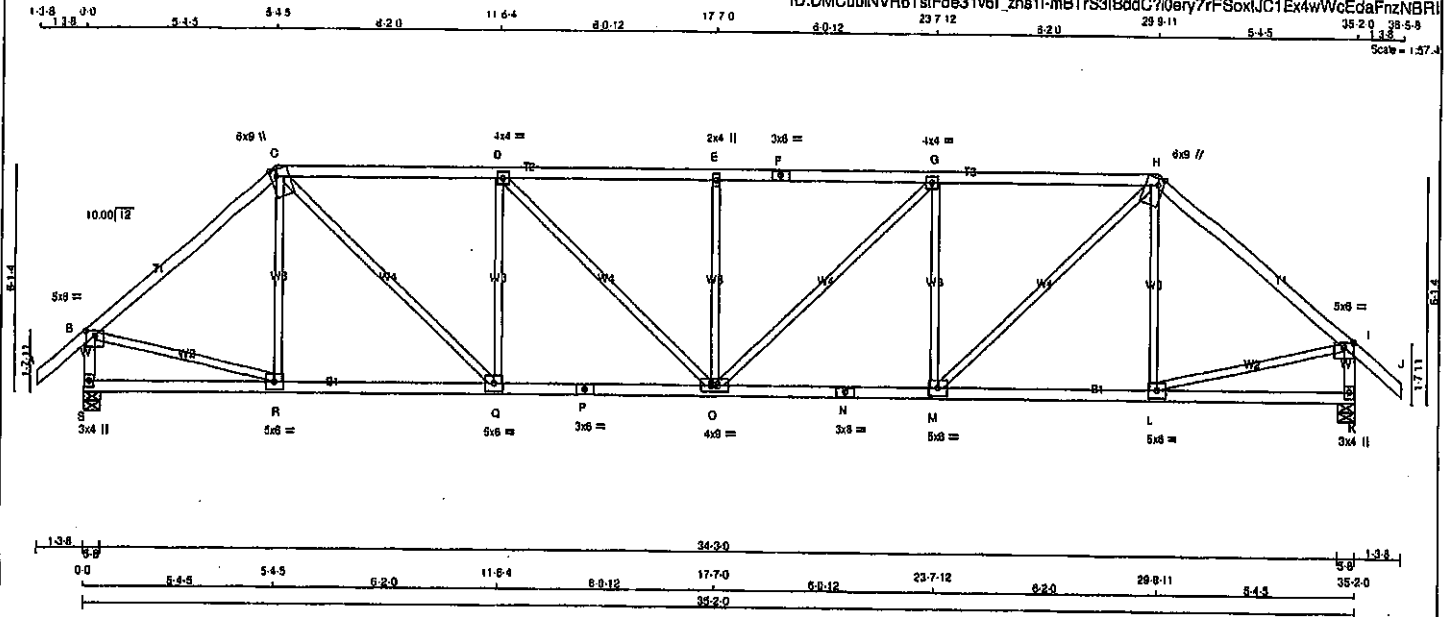
Structural component only  
 DWG# T-2007131



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | ORWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408168   | T3         | 2        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 148 = 296 lb

| LUMBER            |      |        |  |      |
|-------------------|------|--------|--|------|
| N. L. G. A. RULES |      | LUMBER |  |      |
| CHORDS            | SIZE |        |  |      |
| A - C             | 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.

| PLATE TYPE | PLATES | W   | LEN | Y    | X    |
|------------|--------|-----|-----|------|------|
| B TMVW-p   | MT20   | 5.0 | 8.0 | 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   | 6.0 | 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           | HORZ             | DOWN  | HORZ    |
| K        | 2088 0         | 2088 0           | 0 0   | 5-8 5-8 |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN COMPONENT REACTIONS                 |
|-----------|---------------------------------------------|
| JT        | COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL |
| S         | 1458 871 / 0 0 / 0 0 / 0 488 / 0 0 / 0      |
| K         | 1458 871 / 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 | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |
|--------|-------|---------------------------|---------------------------|---------------------------|-------|-------|---------------------------|---------------------------|
| FR-TO  | A-B   | 0 / 41                    | -91.8                     | -91.8 0.13 (1)            | 10.00 | R-C   | -246 / 7                  | 0.14 (1)                  |
|        | B-C   | -2004 / 0                 | -91.8                     | -91.8 0.84 (1)            | 4.11  | C-Q   | 0 / 1532                  | 0.35 (1)                  |
|        | C-D   | -2653 / 0                 | -91.8                     | -91.8 0.74 (1)            | 3.50  | Q-D   | 943 / 0                   | 0.55 (1)                  |
|        | D-E   | -2978 / 0                 | -91.8                     | -91.8 0.78 (1)            | 3.28  | D-O   | 0 / 450                   | 0.10 (1)                  |
|        | E-F   | -2978 / 0                 | -91.8                     | -91.8 0.78 (1)            | 3.28  | O-E   | -513 / 0                  | 0.30 (1)                  |
|        | F-G   | -2978 / 0                 | -91.8                     | -91.8 0.78 (1)            | 3.28  | G-G   | 0 / 450                   | 0.10 (1)                  |
|        | G-H   | -2653 / 0                 | -91.8                     | -91.8 0.74 (1)            | 3.50  | M-G   | -943 / 0                  | 0.55 (1)                  |
|        | H-I   | -2004 / 0                 | -91.8                     | -91.8 0.84 (1)            | 4.11  | M-H   | 0 / 1532                  | 0.35 (1)                  |
|        | I-J   | 0 / 41                    | -91.8                     | -91.8 0.13 (1)            | 10.00 | L-H   | -246 / 7                  | 0.14 (1)                  |
|        | S-B   | -2026 / 0                 | 0.0                       | 0.0 0.22 (1)              | 5.94  | B-R   | 0 / 1580                  | 0.38 (1)                  |
|        | K-I   | -2026 / 0                 | 0.0                       | 0.0 0.22 (1)              | 5.94  | L-I   | 0 / 1580                  | 0.38 (1)                  |
|        | S-R   | 0 / 0                     | -18.5                     | -18.5 0.14 (4)            | 10.00 |       |                           |                           |
|        | R-Q   | 0 / 1532                  | -18.5                     | -18.5 0.33 (1)            | 10.00 |       |                           |                           |
|        | Q-P   | 0 / 2653                  | -18.5                     | -18.5 0.49 (1)            | 10.00 |       |                           |                           |
|        | P-O   | 0 / 2653                  | -18.5                     | -18.5 0.49 (1)            | 10.00 |       |                           |                           |
|        | O-N   | 0 / 2653                  | -18.5                     | -18.5 0.49 (1)            | 10.00 |       |                           |                           |
|        | N-M   | 0 / 2653                  | -18.5                     | -18.5 0.49 (1)            | 10.00 |       |                           |                           |
|        | M-L   | 0 / 1532                  | -18.5                     | -18.5 0.33 (1)            | 10.00 |       |                           |                           |
|        | L-K   | 0 / 0                     | -18.5                     | -18.5 0.14 (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 = 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 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 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/989 (0.16")  
ALLOWABLE DEFL. (TL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (TL) = L/989 (0.26")

CSK: TC=0.78/1.00 (E-G:1), BC=0.48/1.00 (M-O:1), WB=0.55/1.00 (G-M:1), SS=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

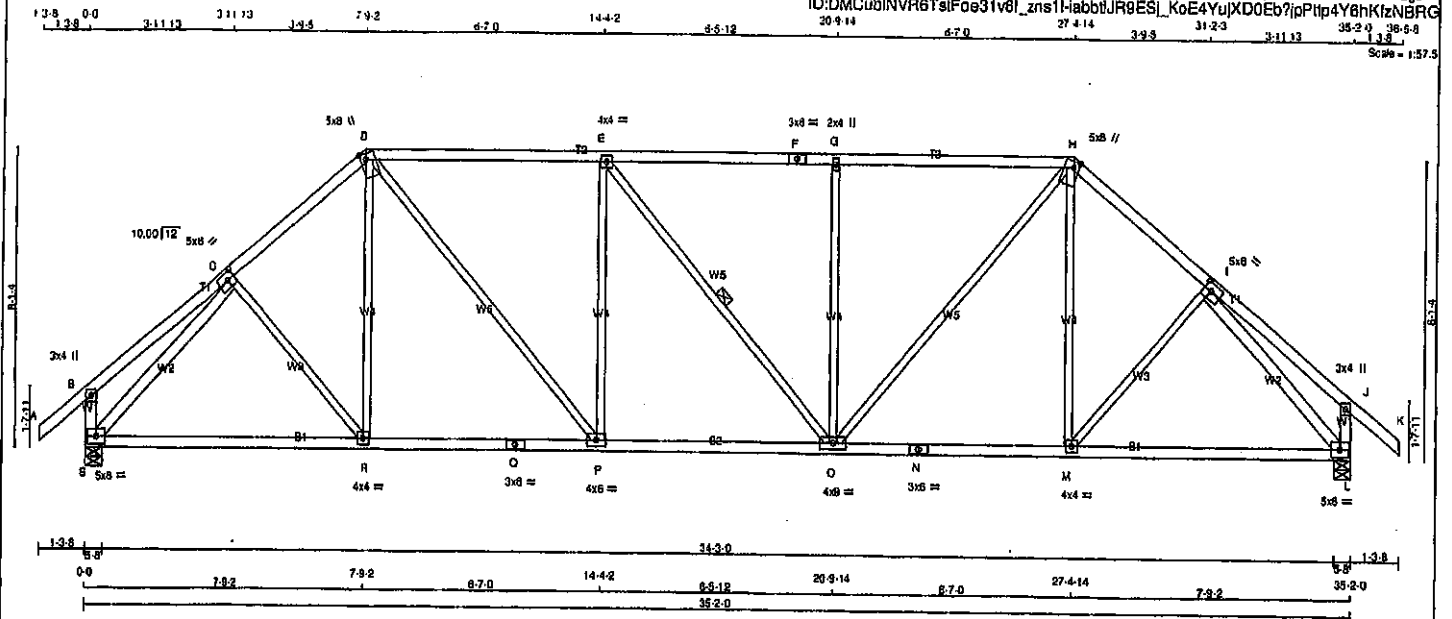
JSI GRIP=0.80 (B) (INPUT = 0.90)  
JSI METAL=0.85 (N) (INPUT = 1.00)



Structural component only  
DWG# T-2007132



| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| 408168                                                                             | T5         | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                    |            |          |     |                  |          |
| Version 8.310.9 Oct 28 2019 MITek Industries, Inc. Sat Apr 25 12:34:53 2020 Page 1 |            |          |     |                  |          |
| ID:DMCubINVR6TsiF0e3iv8l_zns1HabbtJR9ESl_KoE4YuJXD0Eb7jpPtp4Y8hKfzNBRG             |            |          |     |                  |          |
| Scale = 1:57.5                                                                     |            |          |     |                  |          |



| 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    |

| PLATES (table in inches) | W    | LEN | Y   | X         |
|--------------------------|------|-----|-----|-----------|
| JT TYPE                  |      |     |     |           |
| B TMV+p                  | MT20 | 3.0 | 4.0 |           |
| C TMWW-i                 | MT20 | 5.0 | 6.0 | 2.50 2.50 |
| D TTWW+m                 | MT20 | 5.0 | 8.0 | 2.00 1.75 |
| E TMWW-i                 | MT20 | 4.0 | 4.0 |           |
| F TS-i                   | MT20 | 3.0 | 8.0 |           |
| G TMW+w                  | MT20 | 2.0 | 4.0 |           |
| H TTWW+m                 | MT20 | 5.0 | 8.0 | 2.00 1.75 |
| I TMWW-i                 | MT20 | 5.0 | 6.0 | 2.50 2.50 |
| J TMV+p                  | MT20 | 3.0 | 4.0 |           |
| L BMWW-i                 | MT20 | 5.0 | 6.0 |           |
| M BMWW-i                 | MT20 | 4.0 | 4.0 |           |
| N BS-i                   | MT20 | 3.0 | 8.0 |           |
| O BMWW-i                 | MT20 | 4.0 | 8.0 |           |
| P BMWW-i                 | MT20 | 4.0 | 8.0 |           |
| Q SS-i                   | MT20 | 3.0 | 8.0 |           |
| R BMWW-i                 | MT20 | 4.0 | 4.0 |           |
| S BMWW-i                 | MT20 | 5.0 | 6.0 |           |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | UP        | IN-SX    |
| S        | 2066                    | 0                               | 0         | 5-8      |
| L        | 2066                    | 0                               | 0         | 5-8      |

| UNFACTORED REACTIONS | 1ST LOASE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|-----------|------------------------------|
| JT                   | COMBINED  | SNOW                         |
| S                    | 1458      | 871 / 0                      |
| L                    | 1458      | 871 / 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 FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) |
|--------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO  |                           |                           |                                |                                |                                |                                |                                |                                |                                |
| A-B    | 0 / 41                    | -91.8                     | -91.8                          | 0.13 (1)                       | 10.00                          | C-R                            | 0 / 64                         | 0.02 (4)                       |                                |
| B-C    | 0 / 26                    | -91.8                     | -91.8                          | 0.21 (1)                       | 10.00                          | R-D                            | 0 / 128                        | 0.04 (4)                       |                                |
| C-D    | -2006 / 0                 | -91.8                     | -91.8                          | 0.29 (1)                       | 4.50                           | D-P                            | 0 / 998                        | 0.22 (1)                       |                                |
| D-E    | -2183 / 0                 | -91.8                     | -91.8                          | 0.73 (1)                       | 3.81                           | P-E                            | -650 / 0                       | 0.82 (1)                       |                                |
| E-F    | -2162 / 0                 | -91.8                     | -91.8                          | 0.73 (1)                       | 3.81                           | E-O                            | -2 / 0                         | 0.00 (1)                       |                                |
| F-G    | -2162 / 0                 | -91.8                     | -91.8                          | 0.73 (1)                       | 3.81                           | O-G                            | -849 / 0                       | 0.82 (1)                       |                                |
| G-H    | -2162 / 0                 | -91.8                     | -91.8                          | 0.73 (1)                       | 3.82                           | H-H                            | 0 / 998                        | 0.22 (1)                       |                                |
| H-I    | -2006 / 0                 | -91.8                     | -91.8                          | 0.29 (1)                       | 4.50                           | M-H                            | 0 / 128                        | 0.04 (4)                       |                                |
| I-J    | 0 / 26                    | -91.8                     | -91.8                          | 0.21 (1)                       | 10.00                          | M-I                            | 0 / 64                         | 0.02 (4)                       |                                |
| J-K    | 0 / 41                    | -91.8                     | -91.8                          | 0.13 (1)                       | 10.00                          | S-C                            | -2291 / 0                      | 0.97 (1)                       |                                |
| S-B    | -284 / 0                  | 0.0                       | 0.0                            | 0.03 (1)                       | 7.81                           | I-L                            | -2291 / 0                      | 0.97 (1)                       |                                |
| L-J    | -284 / 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 / 2163 | -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 |

#### 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. 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 BCBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/960 (0.10")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/998 (0.21")

CSI: TC=0.79/1.00 (D-E:1), BC=0.42/1.00 (O-P:1), WB=0.97/1.00 (I-L: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

AUTOSOLVE HEELS OFF

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 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

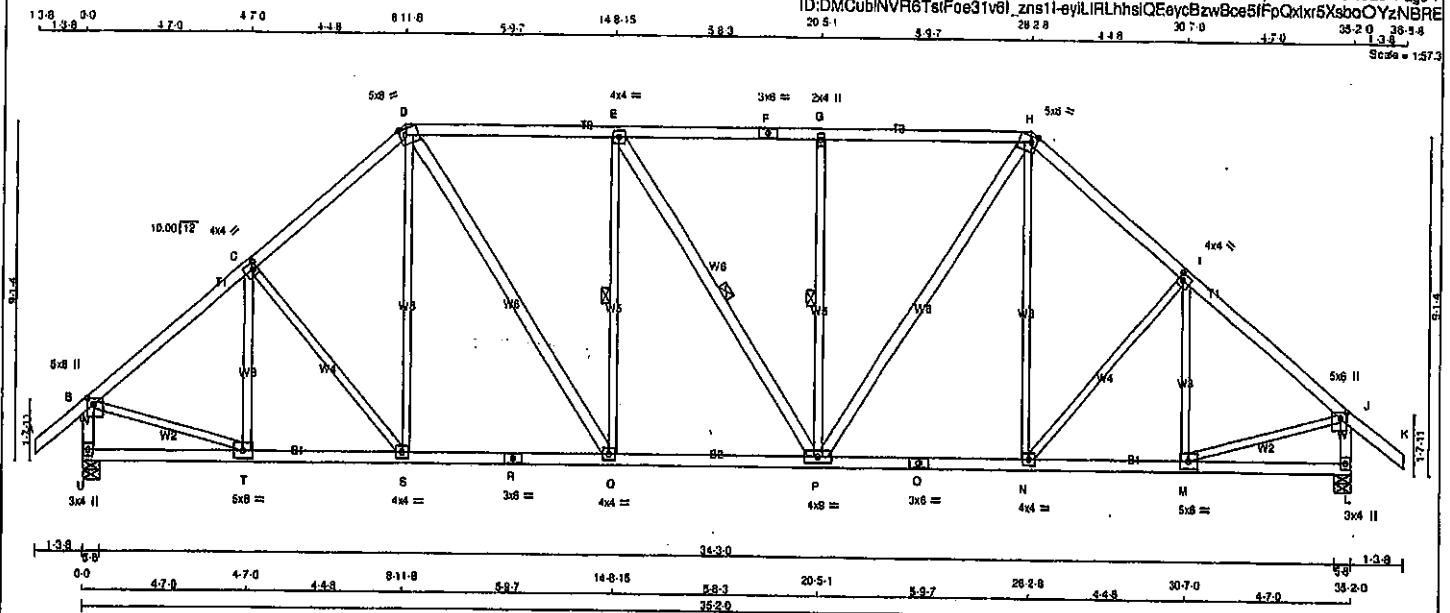
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (1) (INPUT = 0.90)  
JSI METAL= 0.56 (1) (INPUT = 1.00)



Structural component only  
DWG# T-2007134

|                                                                                     |            |          |     |                  |          |
|-------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                            | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408188                                                                              | T6         | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                     |            |          |     |                  |          |
| Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Sat Apr 26 12:34:55 2020 Page 1 |            |          |     |                  |          |
| ID:DMCubINVR6TstFoe31v8l_zns11-eyilLRLHhsIQEaycBzwBoe5fFpQXkr5XsbcOYzNBRE           |            |          |     |                  |          |
| Scale = 1:57.3                                                                      |            |          |     |                  |          |



| 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   |
| 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+P                 | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| D TTWW+M                 | MT20   | 5.0 | 8.0 | 2.00 1.75 |
| E TMVW+P                 | MT20   | 4.0 | 4.0 |           |
| F TS-1                   | MT20   | 3.0 | 6.0 |           |
| G TMVW+P                 | MT20   | 2.0 | 4.0 |           |
| H TTWW+M                 | MT20   | 5.0 | 8.0 | 2.00 1.75 |
| I TMVW+P                 | 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+P                 | MT20   | 5.0 | 8.0 |           |
| N, Q, S                  |        |     |     |           |
| N BMVW+P                 | MT20   | 4.0 | 4.0 |           |
| O BS-1                   | MT20   | 3.0 | 6.0 |           |
| P BMVW+P                 | MT20   | 4.0 | 4.0 |           |
| R BS-1                   | MT20   | 3.0 | 6.0 |           |
| T BMVW+P                 | 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT RECD |
| U        | 2068 0                  | 2068 0                          | 5-8 5-8    |
| L        | 2068 0                  | 2068 0                          | 5-8 5-8    |

#### UNFACTORED REACTIONS

| 1ST CASE MAX/MIN COMPONENT REACTIONS |          |         |       |
|--------------------------------------|----------|---------|-------|
| JT                                   | COMBINED | SNOW    | LIVE  |
| U                                    | 1458     | 971 / 0 | 0 / 0 |
| L                                    | 1458     | 971 / 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 |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF)          | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                           |                           |
| A-B    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)            |
| B-C    | -1894 / 0                 | -91.8                     | -91.8 0.30 (1)            |
| C-D    | -1957 / 0                 | -91.8                     | -91.8 0.29 (1)            |
| D-E    | -1923 / 0                 | -91.8                     | -91.8 0.40 (1)            |
| E-F    | -1921 / 0                 | -91.8                     | -91.8 0.37 (1)            |
| F-G    | -1921 / 0                 | -91.8                     | -91.8 0.37 (1)            |
| G-H    | -1921 / 0                 | -91.8                     | -91.8 0.40 (1)            |
| H-I    | -1957 / 0                 | -91.8                     | -91.8 0.29 (1)            |
| I-J    | -1894 / 0                 | -91.8                     | -91.8 0.30 (1)            |
| J-K    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)            |
| U-B    | -2028 / 0                 | 0.0                       | 0.0 0.22 (1)              |
| L-J    | -2028 / 0                 | 0.0                       | 0.0 0.22 (1)              |
| U-T    | 0 / 0                     | -18.5                     | -18.5 0.08 (4)            |
| T-S    | 0 / 1555                  | -18.5                     | -18.5 0.30 (1)            |
| S-R    | 0 / 1477                  | -18.5                     | -18.5 0.30 (1)            |
| R-Q    | 0 / 1477                  | -18.5                     | -18.5 0.30 (1)            |
| Q-P    | 0 / 1923                  | -18.5                     | -18.5 0.38 (1)            |
| P-O    | 0 / 1478                  | -18.5                     | -18.5 0.30 (1)            |
| O-N    | 0 / 1478                  | -18.5                     | -18.5 0.30 (1)            |
| N-M    | 0 / 1555                  | -18.5                     | -18.5 0.31 (1)            |
| M-L    | 0 / 0                     | -18.5                     | -18.5 0.08 (4)            |
| WEBS   |                           |                           |                           |
| MEMB.  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                           |                           |
| T-C    | -357 / 0                  | 0.16 (1)                  |                           |
| C-S    | -121 / 0                  | 0.10 (1)                  |                           |
| S-D    | 0 / 188                   | 0.05 (4)                  |                           |
| D-Q    | 0 / 810                   | 0.13 (1)                  |                           |
| Q-E    | -569 / 0                  | 0.31 (1)                  |                           |
| E-P    | -3 / 0                    | 0.00 (1)                  |                           |
| P-G    | -568 / 0                  | 0.31 (1)                  |                           |
| G-H    | 0 / 807                   | 0.13 (1)                  |                           |
| H-N    | 0 / 189                   | 0.05 (4)                  |                           |
| N-I    | -121 / 0                  | 0.10 (1)                  |                           |
| I-M    | -358 / 0                  | 0.16 (1)                  |                           |
| M-J    | 0 / 1617                  | 0.38 (1)                  |                           |
| J-K    | 0 / 1617                  | 0.38 (1)                  |                           |

TOTAL WEIGHT = 2 X 182 = 363 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. 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 NBC 2010, OBO 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/380 (1.17")

CALCULATED VERT. DEFL.(LL) = L/699 (0.08")

ALLOWABLE DEFL.(TL) = L/380 (1.17")

CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.40/1.00 (D-E:1), BC=0.38/1.00 (P-Q:1),

WB=0.38/1.00 (B-T:1), SSI=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

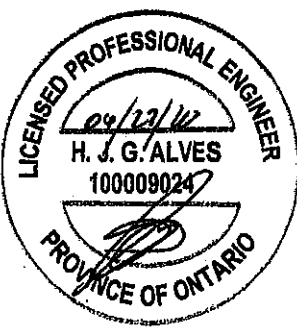
MT20 616 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

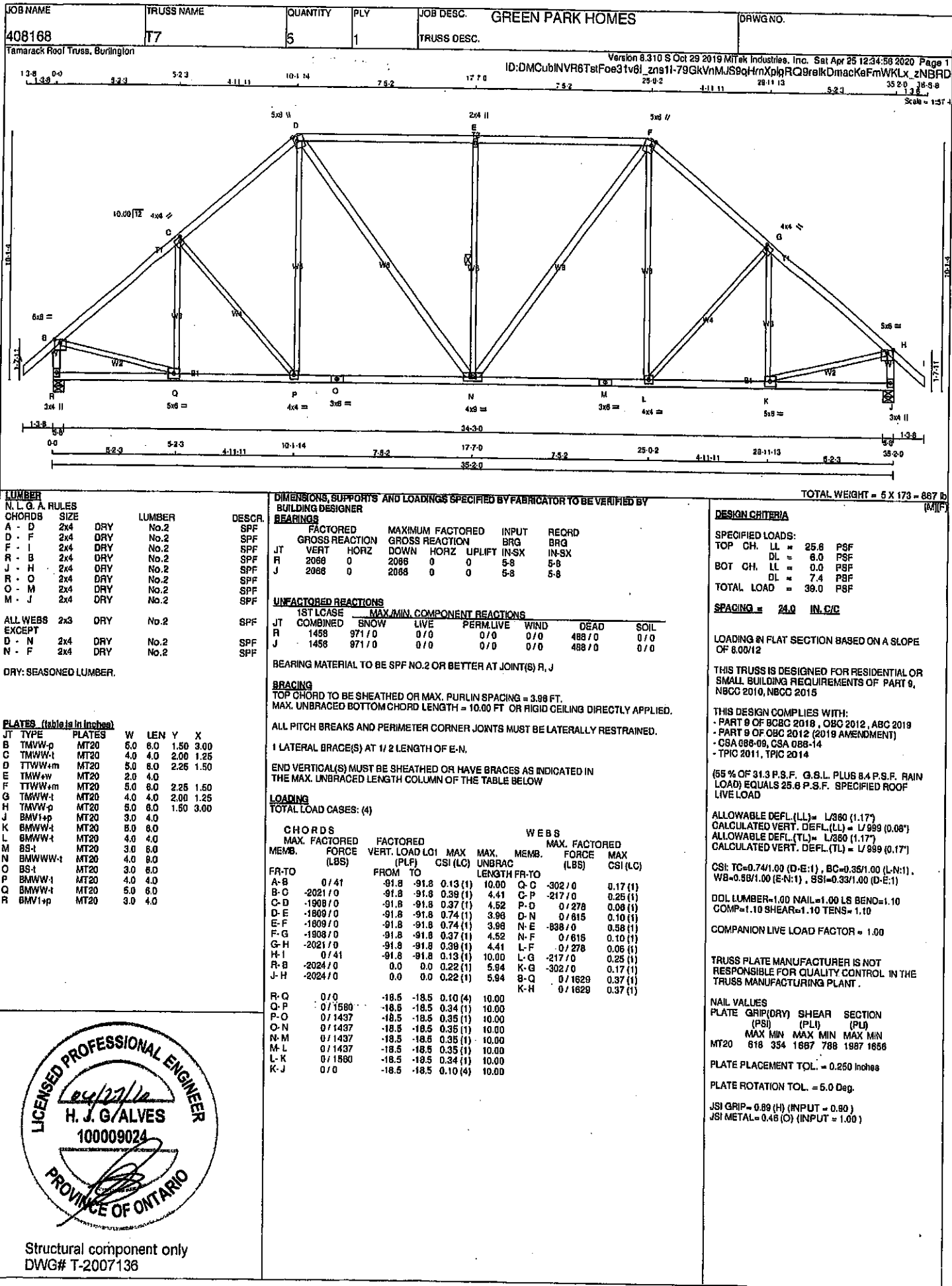
PLATE ROTATION TOL. = 5.0 Deg.

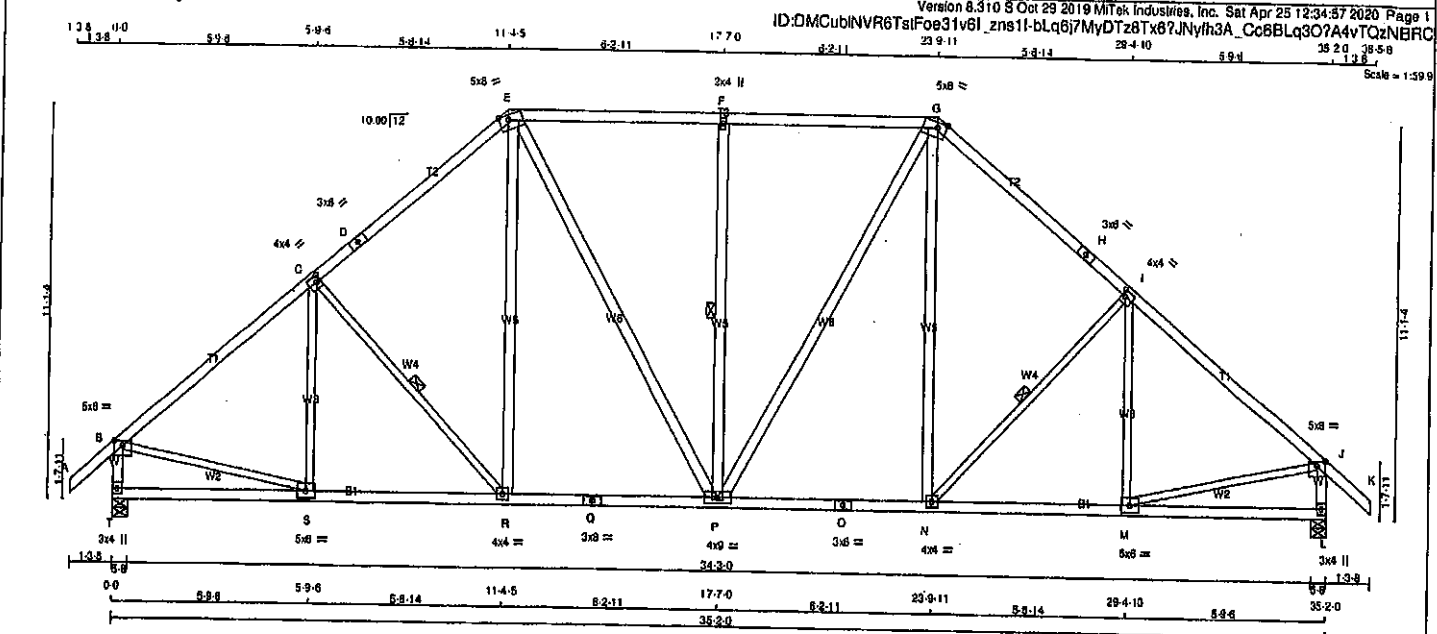
JSI GRIP = 0.89 (B) (INPUT = 0.90)

JSI METAL = 0.50 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007135





**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 - 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   |
| D - L                  | 2x4    | DRY  | No.2   | SPF   |
| <b>ALL WEBS EXCEPT</b> |        |      |        |       |
| S - C                  | 2x3    | DRY  | No.2   | SPF   |
| C - R                  | 2x3    | DRY  | No.2   | SPF   |
| N - I                  | 2x3    | DRY  | No.2   | SPF   |
| M - I                  | 2x3    | DRY  | No.2   | SPF   |
| B - S                  | 2x3    | DRY  | No.2   | SPF   |
| M - J                  | 2x3    | DRY  | No.2   | SPF   |

DRY: SEASONED LUMBER.

**PLATES (Table in inches)**

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| B       | TMVW-p | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| C       | TMVW-l | MT20 | 4.0 | 4.0 | 2.00 1.25 |
| D       | TS-1   | MT20 | 3.0 | 6.0 |           |
| E       | TMVW-m | MT20 | 5.0 | 6.0 | Edge 3.00 |
| F       | TMVW-w | MT20 | 2.0 | 4.0 |           |
| G       | TMVW-m | MT20 | 5.0 | 6.0 | Edge 3.00 |
| H       | TS-1   | MT20 | 3.0 | 6.0 |           |
| I       | TMVW-l | MT20 | 4.0 | 4.0 | 2.00 1.25 |
| J       | TMVW-p | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| L       | BMVW-l | MT20 | 3.0 | 4.0 |           |
| M       | BMVW-l | MT20 | 5.0 | 6.0 |           |
| N       | BMVW-l | MT20 | 4.0 | 4.0 |           |
| O       | BS-1   | MT20 | 3.0 | 6.0 |           |
| P       | BMVW-l | MT20 | 4.0 | 4.0 |           |
| Q       | BS-1   | MT20 | 3.0 | 6.0 |           |
| R       | BMVW-l | MT20 | 4.0 | 4.0 |           |
| S       | BMVW-l | MT20 | 5.0 | 6.0 |           |
| T       | BMVW-l | 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 |
| T 2068         | 0                | 2068  | 0      |
| L 2068         | 0                | 2068  | 0      |

**UNFACTORED REACTIONS**

| 1ST CASE    | MAX. MIN. COMPONENT REACTIONS           |
|-------------|-----------------------------------------|
| JT COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL     |
| T 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) T, L

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.27 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)

| CHORDS |                           |                           |                | WEBS                      |       |                           |               |
|--------|---------------------------|---------------------------|----------------|---------------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LCI (LC)  | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CBI (LC) |
| FR-TO  |                           |                           |                |                           | FR-TO |                           |               |
| A-B    | 0 / 41                    | -91.8                     | -91.8 0.13 (1) | 10.00                     | S-C   | -245 / 10                 | 0.17 (1)      |
| B-C    | -2039 / 0                 | -91.8                     | -91.8 0.50 (1) | 4.27                      | C-R   | -314 / 0                  | 0.15 (1)      |
| C-D    | -1844 / 0                 | -91.8                     | -91.8 0.48 (1) | 4.47                      | R-E   | 0 / 338                   | 0.05 (1)      |
| D-E    | -1844 / 0                 | -91.8                     | -91.8 0.48 (1) | 4.47                      | E-P   | 0 / 489                   | 0.08 (1)      |
| E-F    | -1821 / 0                 | -91.8                     | -91.8 0.50 (1) | 4.60                      | P-F   | -699 / 0                  | 0.45 (1)      |
| F-G    | -1821 / 0                 | -91.8                     | -91.8 0.50 (1) | 4.60                      | P-G   | 0 / 489                   | 0.08 (1)      |
| G-H    | -1844 / 0                 | -91.8                     | -91.8 0.48 (1) | 4.47                      | N-G   | 0 / 338                   | 0.05 (1)      |
| H-I    | -1844 / 0                 | -91.8                     | -91.8 0.48 (1) | 4.47                      | I-N   | -314 / 0                  | 0.15 (1)      |
| I-J    | -2039 / 0                 | -91.8                     | -91.8 0.50 (1) | 4.27                      | M-I   | -245 / 10                 | 0.17 (1)      |
| J-K    | 0 / 41                    | -91.8                     | -91.8 0.13 (1) | 10.00                     | B-S   | 0 / 1837                  | 0.37 (1)      |
| T-B    | -2021 / 0                 | 0.0                       | 0.0 0.21 (1)   | 5.94                      | M-J   | 0 / 1837                  | 0.37 (1)      |
| L-J    | -2021 / 0                 | 0.0                       | 0.0 0.21 (1)   | 5.94                      |       |                           |               |
| T-S    | 0 / 0                     | -18.5                     | -18.5 0.14 (4) | 10.00                     |       |                           |               |
| S-R    | 0 / 1597                  | -18.5                     | -18.5 0.33 (1) | 10.00                     |       |                           |               |
| R-Q    | 0 / 1387                  | -18.5                     | -18.5 0.30 (1) | 10.00                     |       |                           |               |
| Q-P    | 0 / 1387                  | -18.5                     | -18.5 0.30 (1) | 10.00                     |       |                           |               |
| P-O    | 0 / 1387                  | -18.5                     | -18.5 0.30 (1) | 10.00                     |       |                           |               |
| O-N    | 0 / 1387                  | -18.5                     | -18.5 0.30 (1) | 10.00                     |       |                           |               |
| N-M    | 0 / 1597                  | -18.5                     | -18.5 0.33 (1) | 10.00                     |       |                           |               |
| M-L    | 0 / 0                     | -18.5                     | -18.5 0.14 (4) | 10.00                     |       |                           |               |

TOTAL WEIGHT = 2 X 180 = 360 LBS

**DESIGN CRITERIA**

|                         |            |
|-------------------------|------------|
| <b>SPECIFIED LOADS:</b> |            |
| 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 CBC 2015, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = U/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = U/999 (0.14")

CSK: TC=0.50/1.00 (E-F:1), BC=0.33/1.00 (M-N:1),  
WB=0.45/1.00 (F-P:1), SS=0.28/1.00 (E-F:1)

COL 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) (FL)  
MAX MIN MAX MIN  
MT20 618 354 1667 789 1987 1859

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

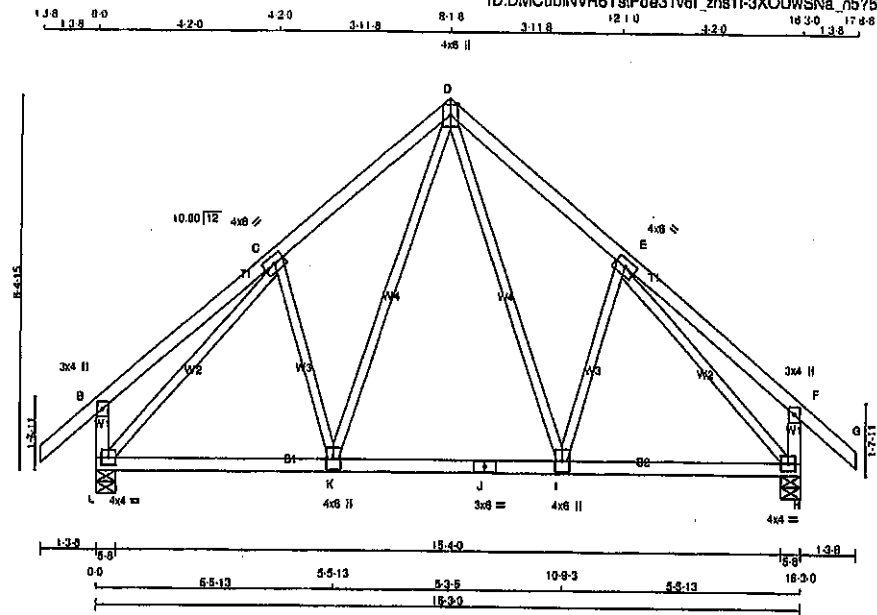
JSI GRIP = 0.89 (J) (INPUT = 0.90)  
JSI METAL = 0.47 (O) (INPUT = 1.00)



Structural component only  
DWG# T-2007137

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| 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:DMCubINVR6TslFoe31v6l\_zns11-3XOUwSNa\_n5755hB15UuEGJD\_0Uq4EhYDqpS7izNBRB



Scale: 1/4\"=1'

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| 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.

| JT | TYPE   | PLATES | W   | LEN | Y    | X |
|----|--------|--------|-----|-----|------|---|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |   |
| C  | TMVW-i | MT20   | 4.0 | 6.0 |      |   |
| D  | TTVW+p | MT20   | 4.0 | 6.0 | Edge |   |
| E  | TMVW-i | MT20   | 4.0 | 6.0 |      |   |
| F  | TMV+p  | MT20   | 3.0 | 4.0 |      |   |
| H  | BMVW-i | MT20   | 4.0 | 4.0 |      |   |
| I  | BMVW-i | MT20   | 4.0 | 6.0 |      |   |
| J  | BS-i   | MT20   | 3.0 | 6.0 |      |   |
| K  | BMVW-i | MT20   | 4.0 | 6.0 |      |   |
| L  | BMVW-i | 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                | 0     | 5-8    |
| H        | 1023           | 0                | 0     | 5-8    |

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN COMPONENT REACTIONS             |
|----------------------|----------|-----------------------------------------|
| JT                   | COMBINED | SNOW LIVE PERM.LIVE WIND DEAD SOIL      |
| L                    | 721      | 487 / 0 0 / 0 0 / 0 0 / 0 234 / 0 0 / 0 |
| H                    | 721      | 487 / 0 0 / 0 0 / 0 0 / 0 234 / 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 = 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) | MAX. UNBRAC LENGTH | MEMB.    |  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) |  | LC1 | MAX CSI (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                | -218 / 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                | -218 / 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                   | -287 / 0 |                           | 0.0                       | 0.0   | 0.03 (1) | 7.81         |                    |          |  |                           |                           |  |     |              |
| H-F                   | -287 / 0 |                           | 0.0                       | 0.0   | 0.03 (1) | 7.81         |                    |          |  |                           |                           |  |     |              |
|                       |          |                           |                           |       |          |              |                    |          |  |                           |                           |  |     |              |
| L-K                   | 0 / 616  |                           | -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 / 616  |                           | -18.5                     | -18.5 | 0.17 (4) | 10.00        |                    |          |  |                           |                           |  |     |              |

TOTAL WEIGHT = 8 X 80 = 481 lb (M/F)

#### 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, NBCO 2010, NBCO 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 (0.54")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TO=0.24/1.00 (B-C:1), BC=0.17/1.00 (H-I:4), WB=0.51/1.00 (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 1857 788 1857 1658

PLATE PLACEMENT TOL. = 0.250 inches

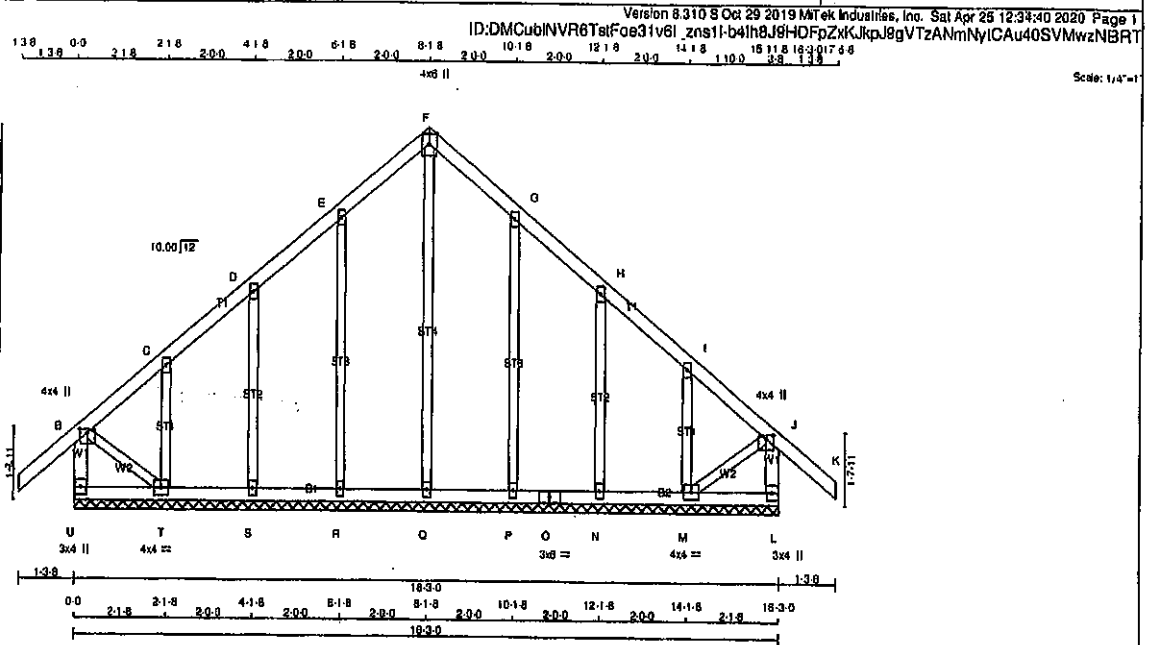
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (C) (INPUT = 0.90)  
JSI METAL= 0.25 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007138

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



**LUMBERS**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER | DESCR. |
|--------|------|--------|--------|
| 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 SPF

ALL GABLE WEBS 2x3 DRY No.2 SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

**PLATES (table in inches)**

| JT TYPE          | PLATES | W   | LEN | Y    | X    |
|------------------|--------|-----|-----|------|------|
| B TMVW+p         | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C, D, E, G, H, I |        |     |     |      |      |
| O TMVW+w         | MT20   | 2.0 | 4.0 |      |      |
| F TTW+p          | MT20   | 4.0 | 6.0 | Edge |      |
| J TMVW+p         | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| L BMV1+p         | MT20   | 3.0 | 4.0 |      |      |
| M BMVW1+1        | MT20   | 4.0 | 4.0 |      |      |
| N, P, Q, R, S    |        |     |     |      |      |
| O BMV1+w         | MT20   | 2.0 | 4.0 |      |      |
| O BS4            | MT20   | 3.0 | 6.0 |      |      |
| T BMVW1+4        | 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. CSI (LC) |          |
| FR-TO  |                           | FROM TO          | LENGTH        | FR-TO |                           |               |          |
| A-B    | 0/41                      | -91.8 -91.8      | 0.13 (1)      | 10.00 | Q-F                       | -124/0        | 0.17 (1) |
| B-C    | -28/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | R-E                       | -210/0        | 0.18 (1) |
| C-D    | -38/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | S-D                       | -168/0        | 0.08 (1) |
| D-E    | -24/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | T-C                       | -205/0        | 0.04 (1) |
| E-F    | -38/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | P-G                       | -210/0        | 0.18 (1) |
| F-G    | -38/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | N-H                       | -168/0        | 0.08 (1) |
| G-H    | -24/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | M-I                       | -205/0        | 0.04 (1) |
| H-I    | -38/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | B-T                       | 0/37          | 0.01 (1) |
| I-J    | -28/0                     | -91.8 -91.8      | 0.05 (1)      | 8.25  | M-J                       | 0/37          | 0.01 (1) |
| J-K    | 0/41                      | -91.8 -91.8      | 0.13 (1)      | 10.00 |                           |               |          |
| U-B    | -248/0                    | 0.0 0.0          | 0.03 (1)      | 7.81  |                           |               |          |
| L-J    | -248/0                    | 0.0 0.0          | 0.03 (1)      | 7.81  |                           |               |          |
| U-T    | 0/0                       | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| T-S    | 0/25                      | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| S-R    | 0/21                      | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| R-Q    | 0/18                      | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| Q-P    | 0/18                      | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| P-O    | 0/21                      | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| O-N    | 0/21                      | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| N-M    | 0/25                      | -18.5 -18.5      | 0.02 (4)      | 10.00 |                           |               |          |
| M-L    | 0/0                       | -18.5 -18.5      | 0.02 (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. 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 NBC 2010, 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 25.8 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-G:1), SS=0.08/1.00 (A-B: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 1887 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.62 (T) (INPUT = 0.90)

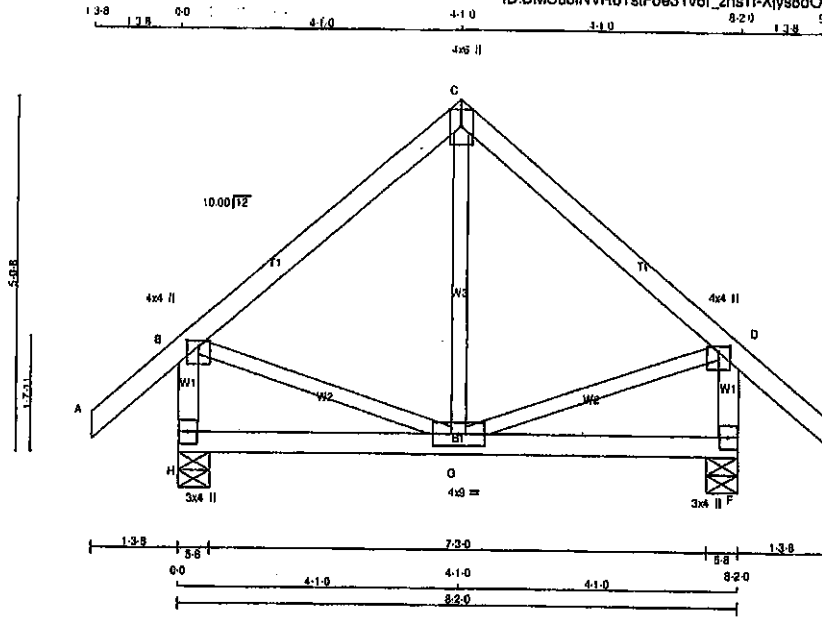
JSI METAL = 0.11 (G) (INPUT = 1.00)



Structural component only  
DWG# T-2007123



|                                 |            |          |     |                                                                                                                                                                  |                  |          |
|---------------------------------|------------|----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                                                                                                                                        | GREEN PARK HOMES | DRWG NO. |
| 408168                          | T10        | 1        | 1   | TRUSS DESC.                                                                                                                                                      |                  |          |
| Tamarack Roof Truss, Burlington |            |          |     | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:34:59 2020 Page 1<br>ID:DMCubINVR6TstFoe31v6l_zns11-Xjys8oOCi4DaiFFNQo?7nUGOUQrOpqnhSUZ?XJzNBRA |                  |          |



Scale = 1/32

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

DRY: SEASONED LUMBER.

**PLATES (table 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 | 8.0 |      |      |
| 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 | REQD |
|----|----------------|------------------|-------|------|
|    | 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 | DEAD  | SOIL  |
|----|----------|---------|-------|---------------------|-------|-------|
| H  | 406      | 280 / 0 | 0 / 0 | PERM. LIVE          | 0 / 0 | 0 / 0 |
| F  | 406      | 280 / 0 | 0 / 0 | PERM. LIVE          | 0 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                    | WEBS                 |       |                           |                      |
|--------|---------------------------|---------------------------|--------------------|----------------------|-------|---------------------------|----------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. H. LOAD (LC1) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
| FR-TO  |                           |                           |                    |                      | FR-TO |                           |                      |
| A-B    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)     | 10.00                | G-C   | -37 / 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 0.09 (4)     | 10.00                |       |                           |                      |
| G-F    | 0 / 0                     | -18.5                     | -18.5 0.09 (4)     | 10.00                |       |                           |                      |

TOTAL WEIGHT = 38 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 = 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 NBCC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 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) =  $L/360$  (0.27")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.27")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.01")

CSI: TC=0.20/1.00 (B-C:1), BC=0.09/1.00 (F-G:4), WB=0.08/1.00 (D-G: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

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

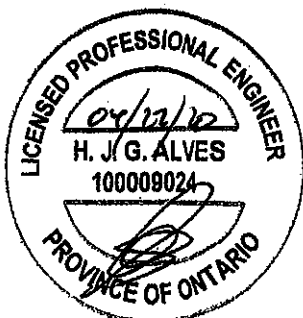
**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

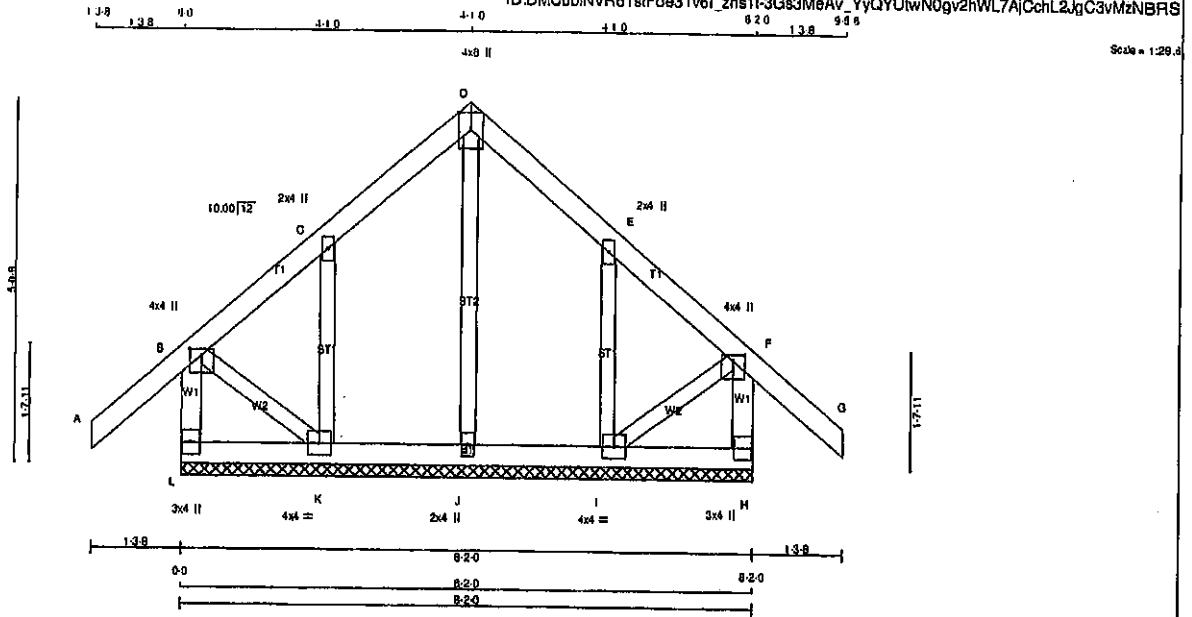
JSI GRIP = 0.46 (D) (INPUT = 0.90)  
JSI METAL = 0.12 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2007139

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

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TOTAL WEIGHT = 40 lb (A)

| LUMBER                          |        |      |        |
|---------------------------------|--------|------|--------|
| N. L. G. A. RULES               | CHORDS | SIZE | 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. |        |      |        |

| PLATES (table in inches) |        |      |     |     |           |
|--------------------------|--------|------|-----|-----|-----------|
| JT TYPE                  | PLATES | W    | LEN | Y   | X         |
| B                        | TMVW+p | MT20 | 4.0 | 4.0 | 1.00 2.00 |
| C                        | TMW+w  | MT20 | 2.0 | 4.0 |           |
| D                        | TTW+p  | MT20 | 4.0 | 8.0 | Edge      |
| E                        | TMW+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                        | BMW1+p | MT20 | 4.0 | 4.0 |           |
| J                        | BMV1+p | MT20 | 2.0 | 4.0 |           |
| K                        | BMW1+p | 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 = 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                                                                                        |                           |                  |                   |                      |       |                           |                  |                   |                      |
| MEMB.                                                                                         | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MAX. UNBRACED LENGTH |
| FR-TO                                                                                         |                           |                  |                   |                      | FR-TO |                           |                  |                   |                      |
| L-B                                                                                           | -224 / 0                  | 0.0              | 0.0 0.02 (1)      | 7.81                 | J-D   | -128 / 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)    | 8.25                 | B-K   | 0 / 24                    | 0.01 (1)         |                   |                      |
| D-E                                                                                           | -31 / 0                   | -91.8            | -91.8 0.08 (1)    | 8.25                 | I-F   | 0 / 24                    | 0.01 (1)         |                   |                      |
| E-F                                                                                           | -11 / 0                   | -91.8            | -91.8 0.08 (1)    | 8.25                 |       |                           |                  |                   |                      |
| 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 = 25.6 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 2016

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, CBO 2012, ABC 2019  
- PART 9 OF CBO 2012 (2019 AMENDMENT)  
- CSA 088-09, CBA 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

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), 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

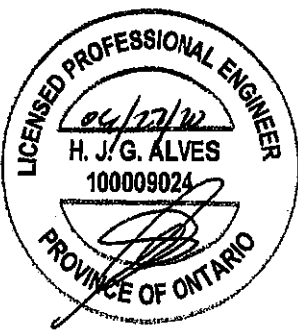
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

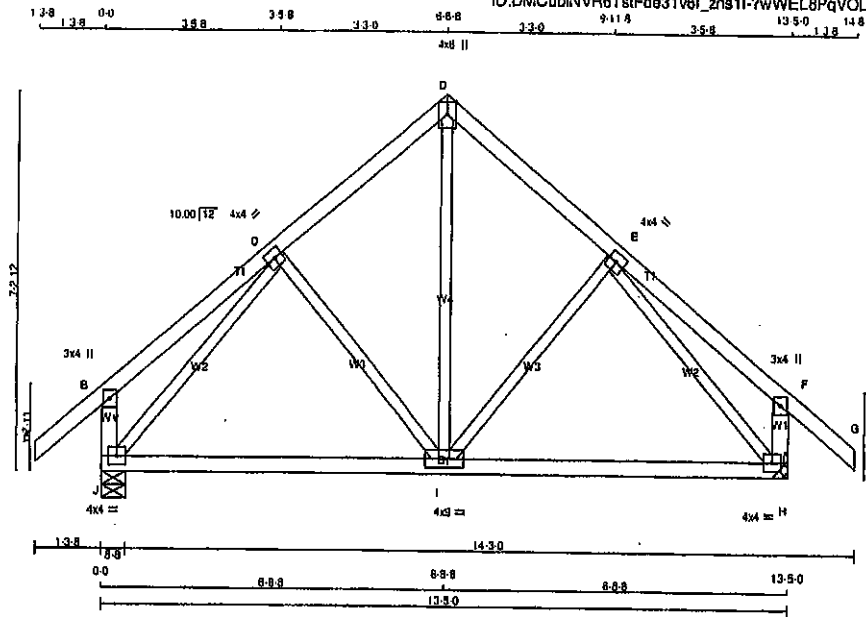
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (C) (INPUT = 0.80)  
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 12:38:00 2020 Page 1 |            |          |     |                  |          |
| ID:DMCubINVR6TstFoe31v8i_zns11-7wWEL8PqVOLIKPqa_WWWAhoZlq8hYBarhBIZ4zNBRR9         |            |          |     |                  |          |
| Scale = 1:40.5                                                                     |            |          |     |                  |          |



| LUMBER   | N. L. G. A. RULES | 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) | JT TYPE | PLATES | W   | LEN | Y | X    |
|--------------------------|---------|--------|-----|-----|---|------|
| B                        | TMV-p   | MT20   | 3.0 | 4.0 |   |      |
| C                        | TMWW-t  | MT20   | 4.0 | 4.0 |   |      |
| D                        | TTW-p   | MT20   | 4.0 | 6.0 |   | Edge |
| E                        | TMWW-t  | MT20   | 4.0 | 4.0 |   |      |
| F                        | TMV-p   | MT20   | 3.0 | 4.0 |   |      |
| H                        | BMVW1-t | MT20   | 4.0 | 4.0 |   |      |
| I                        | BMVW1-t | MT20   | 4.0 | 9.0 |   |      |
| J                        | BMVW1-t | 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 |
| J        | 887            | 0                | 887   | 0      |
| H        | 887            | 0                | 887   | 0      |

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

#### UNFACTORED REACTIONS

| 1ST LOASE | MAX/MIN. COMPONENT REACTIONS |
|-----------|------------------------------|
| JT        | COMBINED                     |
| J         | 611                          |
| H         | 611                          |

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             | WEBS  | MAX. FACTORED |
|--------|---------------|----------------------|-------|---------------|
| MEMB.  | FORCE         | VERT. LOAD           | MEMB. | FORCE         |
|        | (LBS)         | (PLF)                |       | (LBS)         |
| FR-TO  |               | FROM TO              | FR-TO |               |
| A-B    | 0/41          | -91.8 -91.8 0.13 (1) | I-D   | 0/382         |
| B-C    | 0/23          | -91.8 -91.8 0.16 (1) | I-E   | -149/0        |
| C-D    | -509/0        | -91.8 -91.8 0.13 (1) | C-I   | -149/0        |
| D-E    | -509/0        | -91.8 -91.8 0.13 (1) | J-C   | -742/0        |
| E-F    | 0/23          | -91.8 -91.8 0.16 (1) | E-H   | -742/0        |
| F-G    | 0/41          | -91.8 -91.8 0.13 (1) |       |               |
| J-B    | -244/0        | 0.0 0.0 0.03 (1)     |       |               |
| H-F    | -244/0        | 0.0 0.0 0.03 (1)     |       |               |
| J-I    | 0/469         | -18.5 -18.5 0.27 (4) |       |               |
| I-H    | 0/469         | -18.5 -18.5 0.27 (4) |       |               |

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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2015, 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 (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=0.16/1.00 (E-F:1), BC=0.27/1.00 (I-J:4),  
WB=0.33/1.00 (E-H:1), SSI=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

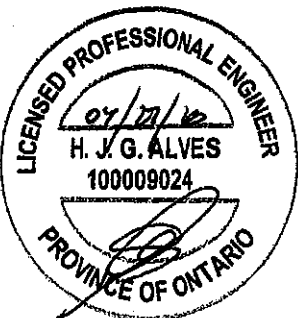
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLJ)  
MAX MIN MAX MIN  
MT20 618 354 1687 789 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

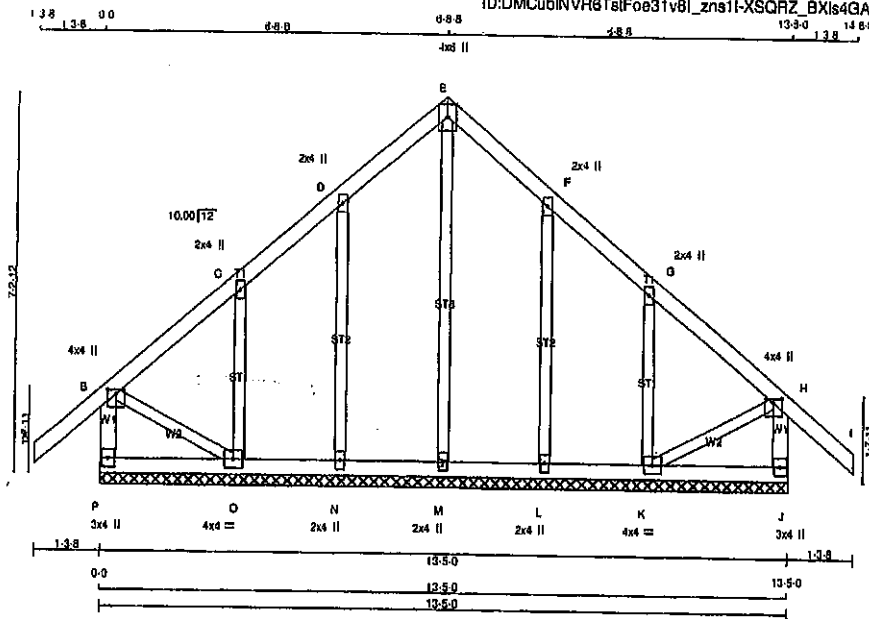
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.84 (E) (INPUT = 0.80)  
JSI METAL=0.27 (E) (INPUT = 1.00)



Structural component only  
DWG# T-2007140

|                                                                                    |            |          |     |                  |          |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                                                                             | G11        | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                    |            |          |     |                  |          |
| Version 8.310 S Oct 20 2019 Mitek Industries, Inc. Sat Apr 25 12:34:42 2020 Page 1 |            |          |     |                  |          |
| ID:DMCubINVR6TstFoe31v8l_zns11-XSQRZ_BXIs4GAeS8xk88au3WIZ3HL6XBYKxcRozNBRR         |            |          |     |                  |          |
| Scale = 1/4" = 1'-0"                                                               |            |          |     |                  |          |



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

| PLATES (table in inches) |        |     |     |      |      |
|--------------------------|--------|-----|-----|------|------|
| JT TYPE                  | PLATES | W   | LEN | Y    | X    |
| B TMW+p                  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C, D, F, G               |        |     |     |      |      |
| C TMW+w                  | MT20   | 2.0 | 4.0 |      |      |
| E TTW+p                  | MT20   | 4.0 | 6.0 | Edge |      |
| H TMW+p                  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| J BMV1+p                 | MT20   | 3.0 | 4.0 |      |      |
| K BMWV1-t                | MT20   | 4.0 | 4.0 |      |      |
| L, M, N                  |        |     |     |      |      |
| L BMW1+w                 | MT20   | 2.0 | 4.0 |      |      |
| O BMWV1-t                | MT20   | 4.0 | 4.0 |      |      |
| P BMV1+p                 | MT20   | 3.0 | 4.0 |      |      |

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

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

**BEARINGS**

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. FURLIN 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. FACTORED (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED (LC) |
| FR-TO  |                           |                  |                    | FR-TO |                           |                           |                    |
| P-B    | -263 / 0                  | 0.0              | 0.03 (1)           | M-E   | -128 / 0                  | 7.81                      | 0.11 (1)           |
| A-B    | 0 / 41                    | -91.8            | -91.8 0.13 (1)     | N-D   | -190 / 0                  | 10.00                     | 0.09 (1)           |
| B-C    | -24 / 0                   | -91.8            | -91.8 0.08 (1)     | O-G   | -239 / 0                  | 8.25                      | 0.08 (1)           |
| C-D    | -38 / 0                   | -91.8            | -91.8 0.08 (1)     | L-F   | -190 / 0                  | 8.25                      | 0.09 (1)           |
| D-E    | -35 / 0                   | -91.8            | -91.8 0.05 (1)     | K-G   | -239 / 0                  | 8.25                      | 0.08 (1)           |
| E-F    | -35 / 0                   | -91.8            | -91.8 0.05 (1)     | B-O   | 0 / 32                    | 8.25                      | 0.01 (1)           |
| F-G    | -38 / 0                   | -91.8            | -91.8 0.08 (1)     | K-H   | 0 / 32                    | 8.25                      | 0.01 (1)           |
| G-H    | -24 / 0                   | -91.8            | -91.8 0.08 (1)     |       |                           |                           |                    |
| H-I    | 0 / 41                    | -91.8            | -91.8 0.13 (1)     |       |                           |                           |                    |
| J-H    | -283 / 0                  | 0.0              | 0.03 (1)           |       |                           |                           |                    |
| P-O    | 0 / 0                     | -18.5            | -18.5 0.03 (4)     |       |                           |                           |                    |
| O-N    | 0 / 22                    | -18.5            | -18.5 0.03 (4)     |       |                           |                           |                    |
| N-M    | 0 / 19                    | -18.5            | -18.5 0.02 (4)     |       |                           |                           |                    |
| M-L    | 0 / 19                    | -18.5            | -18.5 0.02 (4)     |       |                           |                           |                    |
| L-K    | 0 / 22                    | -18.5            | -18.5 0.03 (4)     |       |                           |                           |                    |
| K-J    | 0 / 0                     | -18.5            | -18.5 0.03 (4)     |       |                           |                           |                    |

TOTAL WEIGHT = 85 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 8 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

CSI: TC=0.13/1.00 (H-I), BC=0.03/1.00 (K-L), WS=0.11/1.00 (E-M), SS=0.08/1.00 (G-H)

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 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.20 (B) (INPUT = 0.90)

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

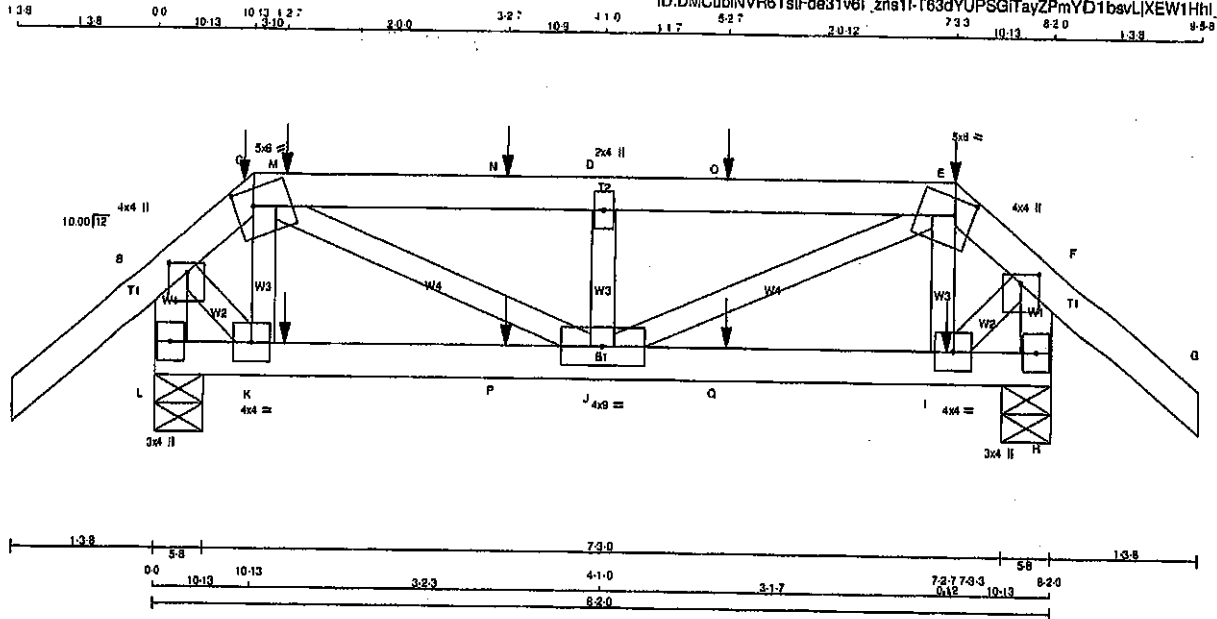


Structural component only  
DWG# T-2007125

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408168   | T12        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 26 12:35:01 2020 Page 1  
ID:DMCubINVR6TslFoe31v6I\_zns1I-T63dYUPSGITayZPmYD1bvtLjXEWIHHI\_vn26cCzNBR8



TOTAL WEIGHT = 34 lb

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

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | W   | LEN | Y    | X    |
|-----------------------------|-----|-----|------|------|
| JT TYPE PLATES              |     |     |      |      |
| 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-1 MT20               | 4.0 | 4.0 |      |      |
| J BMVW-1 MT20               | 4.0 | 9.0 |      |      |
| K BMVW-1 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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REGRD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|-----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |           |
| L  | 913                     | 0    | 913                             | 0    | 5-8       | 5-8       |
| H  | 911                     | 0    | 911                             | 0    | 5-8       | 5-8       |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |       | MAX/MIN COMPONENT REACTIONS |      | WIND | DEAD  | SOIL |
|----|--------------------|-------|-----------------------------|------|------|-------|------|
|    | SNOW               | LIVE  | PERM.LIVE                   | WIND |      |       |      |
| L  | 642                | 442/0 | 0/0                         | 0/0  | 0/0  | 189/0 | 0/0  |
| H  | 641                | 437/0 | 0/0                         | 0/0  | 0/0  | 204/0 | 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)

| MEMB. | FR-TO   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 MAX (PLF) |          | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|---------|---------------------------|-----------------------------------|----------|----------------------------|-------|---------------------------|---------------|
|       |         |                           | FROM                              | TO       |                            |       |                           |               |
| A-B   | 0/41    | -91.8                     | -91.8                             | 0.14 (1) | 10.00                      | J-D   | -487/0                    | 0.08 (1)      |
| B-C   | -631/0  | -91.8                     | -91.8                             | 0.14 (1) | 6.25                       | K-Q   | -158/0                    | 0.02 (1)      |
| C-M   | -1054/0 | -91.8                     | -91.8                             | 0.23 (1) | 5.82                       | C-J   | 0/700                     | 0.17 (1)      |
| M-N   | -1054/0 | -91.8                     | -91.8                             | 0.23 (1) | 5.82                       | B-K   | 0/525                     | 0.13 (1)      |
| N-D   | -1054/0 | -91.8                     | -91.8                             | 0.23 (1) | 5.82                       | I-E   | -149/0                    | 0.02 (1)      |
| D-O   | -1054/0 | -91.8                     | -91.8                             | 0.23 (1) | 5.82                       | J-E   | 0/898                     | 0.17 (1)      |
| O-E   | -1054/0 | -91.8                     | -91.8                             | 0.23 (1) | 5.82                       | I-F   | 0/526                     | 0.13 (1)      |
| E-F   | -832/0  | -91.8                     | -91.8                             | 0.14 (1) | 6.25                       |       |                           |               |
| F-G   | 0/41    | -91.8                     | -91.8                             | 0.14 (1) | 10.00                      |       |                           |               |
| L-B   | -936/0  | 0.0                       | 0.0                               | 0.10 (1) | 7.81                       |       |                           |               |
| H-F   | -937/0  | 0.0                       | 0.0                               | 0.10 (1) | 7.81                       |       |                           |               |
| L-K   | 0/0     | -18.5                     | -18.5                             | 0.05 (1) | 10.00                      |       |                           |               |
| K-P   | 0/420   | -18.5                     | -18.5                             | 0.13 (1) | 10.00                      |       |                           |               |
| P-J   | 0/420   | -18.5                     | -18.5                             | 0.13 (1) | 10.00                      |       |                           |               |
| J-Q   | 0/421   | -18.5                     | -18.5                             | 0.14 (1) | 10.00                      |       |                           |               |
| Q-I   | 0/421   | -18.5                     | -18.5                             | 0.14 (1) | 10.00                      |       |                           |               |
| I-H   | 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  | 10-13 | -9   | -114 | -114 | 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    |
| I  | 7-3-3 | -44  | -44  | -44  | FRONT | VERT | SNOW  | ...  | C1    |
| I  | 7-2-7 | -49  | -49  | -49  | BACK  | VERT | TOTAL | ...  | C1    |
| N  | 1-2-7 | -49  | -49  | -49  | BACK  | VERT | TOTAL | ...  | C1    |
| O  | 3-2-7 | -82  | -82  | -82  | BACK  | VERT | TOTAL | ...  | C1    |
| P  | 5-2-7 | -82  | -82  | -82  | BACK  | VERT | TOTAL | ...  | C1    |
| Q  | 3-2-7 | -49  | -49  | -49  | BACK  | VERT | TOTAL | ...  | C1    |

#### CONNECTION REQUIREMENTS

II C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

#### 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 = 25.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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, NBCC 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

#### 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 (0.27")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.27")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

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

DOL LUMBER=1.00 NAIL=1.00 LS BENO=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.

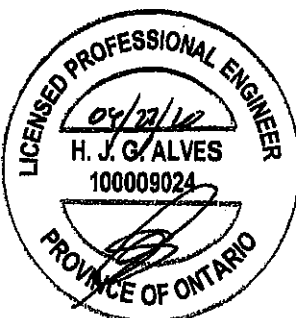
#### NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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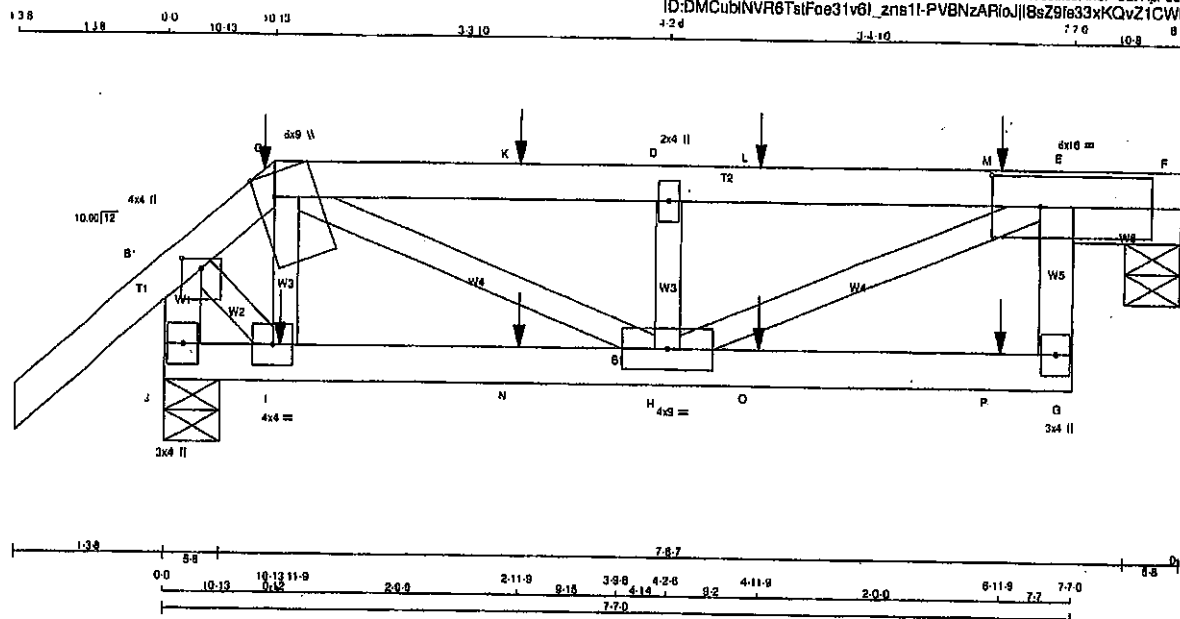


Structural component only  
DWG# T-2007141

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

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:35:03 2020 Page 1  
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Scale = 1:17.3



| LUMBER            |      |        |        |
|-------------------|------|--------|--------|
| N. L. G. A. RULES | SIZE | LUMBER | DESCR. |
| CHORDS            |      |        |        |
| A - C             | 2x4  | DRY    | No.2   |
| C - F             | 2x4  | DRY    | No.2   |
| E - F             | 2x4  | DRY    | No.2   |
| G - E             | 2x4  | DRY    | No.2   |
| J - B             | 2x4  | DRY    | No.2   |
| J - G             | 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 TMVW+p                    | MT20   | 4.0 | 4.0  | 1.00 2.00 |
| C TTWW+m                    | MT20   | 8.0 | 9.0  | Edge 1.75 |
| D TMVW+m                    | MT20   | 2.0 | 4.0  |           |
| E TMVWV-i                   | MT20   | 6.0 | 18.0 | 3.00 5.00 |
| G BMV+p                     | MT20   | 3.0 | 4.0  |           |
| H BMVWV-i                   | MT20   | 4.0 | 9.0  |           |
| I BMVW-i                    | 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 |
|----------|----------------|----------------|------------------|-------|------|
| JT       | GROSS REACTION | GROSS REACTION | BRG              | BRG   |      |
| F        | 895 0          | 895 0          | 0 0              | 5-8   | 5-8  |
| J        | 936 0          | 936 0          | 0 0              | 5-8   | 5-8  |

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

| UNFACTORED REACTIONS |          | 1ST LOOSE | MAX/MIN. COMPONENT REACTIONS |           |       |
|----------------------|----------|-----------|------------------------------|-----------|-------|
| JT                   | COMBINED | SNOW      | LIVE                         | PERM.LIVE | WIND  |
| F                    | 490      | 327 / 0   | 0 / 0                        | 0 / 0     | 0 / 0 |
| J                    | 659      | 449 / 0   | 0 / 0                        | 0 / 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 = 3.56 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                    | I-C   | -158 / 0                  |
| B-C    | -658 / 0                  | H-D   | -787 / 0                  |
| C-K    | -1230 / 0                 | C-H   | 0 / 887                   |
| K-D    | -1230 / 0                 | H-E   | 0 / 1345                  |
| D-L    | -1230 / 0                 |       |                           |
| L-M    | -1230 / 0                 |       |                           |
| M-E    | -1230 / 0                 |       |                           |
| E-F    | 0 / 0                     |       |                           |
| G-E    | 0 / 83                    |       |                           |
| J-B    | -968 / 0                  |       |                           |
| J-I    | 0 / 0                     |       |                           |
| I-N    | 0 / 438                   |       |                           |
| N-H    | 0 / 438                   |       |                           |
| H-O    | 0 / 0                     |       |                           |
| O-P    | 0 / 0                     |       |                           |
| P-G    | 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  | ---  | 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 lb

#### DESIGN CRITERIA

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

#### SPECIFIED LOADS:

TOP CH. LL = 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, NBCC 2015  
- PART 9 OF NBCC 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/360 (0.25")  
CALCULATED VERT. DEFL.(LL) = L/968 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.25")  
CALCULATED VERT. DEFL.(TL) = L/668 (0.13")

CSI: TG=0.88/1.00 (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)

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.

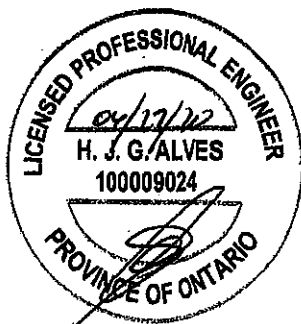
#### NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1997 788 1997 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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| PLATES (table is 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                           | TMVW-i   | MT20   | 4.0 | 8.0 |           |
| E                           | TMVW-w   | MT20   | 2.0 | 4.0 |           |
| F                           | TMVW-t   | MT20   | 4.0 | 4.0 |           |
| G                           | TS-1     | MT20   | 3.0 | 8.0 |           |
| H                           | TMVW-w   | MT20   | 2.0 | 4.0 |           |
| I                           | TMVW-i   | MT20   | 4.0 | 8.0 |           |
| J                           | TTWW-m   | MT20   | 6.0 | 9.0 | Edge 6.25 |
| K                           | TMVW-p   | MT20   | 5.0 | 8.0 | 1.50 3.50 |
| M                           | BMV1-p   | MT20   | 3.0 | 8.0 |           |
| N                           | BMVW-i   | MT20   | 5.0 | 8.0 | 2.50 2.00 |
| O                           | BMVW-t   | MT20   | 8.0 | 9.0 | 4.50 2.00 |
| P                           | BS-1     | MT20   | 5.0 | 8.0 |           |
| Q                           | BMVW-w-i | MT20   | 5.0 | 8.0 |           |
| R                           | BMVW-t   | MT20   | 5.0 | 8.0 |           |
| S                           | BS-1     | MT20   | 5.0 | 8.0 |           |
| T                           | BMVW-i   | MT20   | 8.0 | 9.0 | 4.50 2.00 |
| U                           | BMVW-t   | MT20   | 5.0 | 8.0 | 2.50 2.00 |
| V                           | BMV1-p   | MT20   | 3.0 | 8.0 |           |

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |          |                           |                           | WEBS                   |       |      |                           |
|--------|----------|---------------------------|---------------------------|------------------------|-------|------|---------------------------|
| MEMB.  |          | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CS1 (LC) | MEMB. |      | MAX. FACTORED FORCE (LBS) |
| FR-TO  | FROM     | TO                        | CS1 (LC)                  | UNBRAC                 | FR-TO | FROM | TO                        |
| AS-AT  | 0 / 8217 | -18.5                     | -18.5                     | 0.46 (1)               | 10.00 |      |                           |
| AT-O   | 0 / 8217 | -18.5                     | -18.5                     | 0.46 (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 | -284 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| G  | 18-2-12 | -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    |
| N  | 31-1-6  | -254 | -284 | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| P  | 21-2-12 | -28  | -28  | ---  | 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  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AJ | 3-2-12  | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AK | 5-2-12  | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AL | 7-2-12  | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AM | 9-2-12  | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AN | 11-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AO | 13-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AP | 15-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AQ | 17-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AR | 19-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AS | 23-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AT | 25-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AU | 27-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AV | 29-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| AW | 33-2-12 | -28  | -28  | ---  | BACK  | VERT | TOTAL | ---  | C1    |

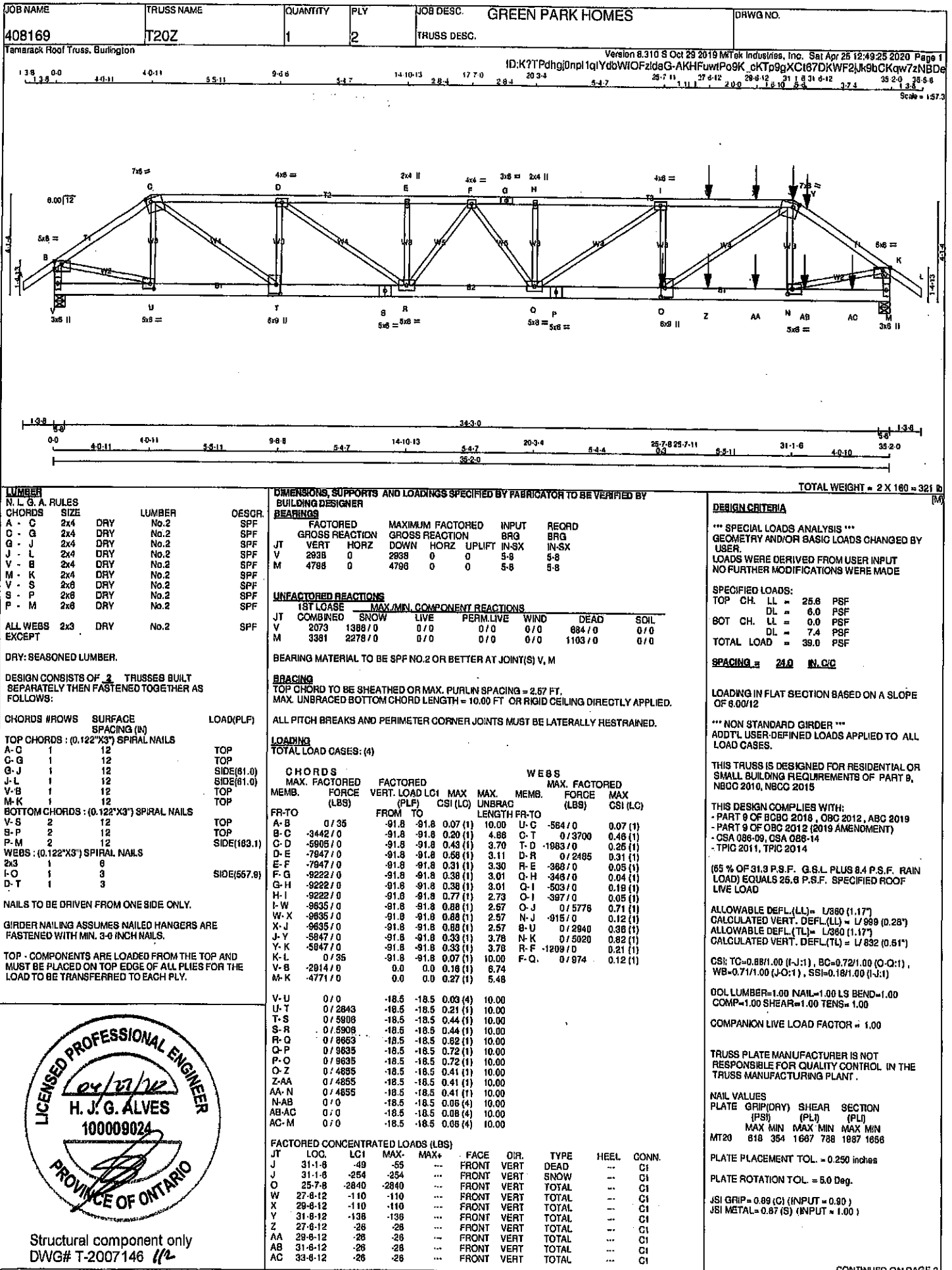
#### CONNECTION REQUIREMENTS

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



Structural component only  
DWG# T-2007.145





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

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:48:25 2020 Page 2  
ID:K?TPcha0np1q1YcbWIOFzIdeG-AKHFWmPa9K cKp9aXCi67DKWF2Jk9bCKq7zNBDe

PLATES (table is 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  | TMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| E  | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| G  | TS-t    | MT20   | 3.0 | 8.0 |      |      |
| H  | TMVW-w  | MT20   | 2.0 | 4.0 |      |      |
| I  | TMVW-t  | MT20   | 4.0 | 8.0 |      |      |
| 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  | BMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| O  | BMVW-t  | MT20   | 6.0 | 9.0 | 4.50 | 2.00 |
| P  | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| Q  | BMVWW-t | MT20   | 5.0 | 8.0 |      |      |
| R  | BMVWW-t | MT20   | 5.0 | 8.0 |      |      |
| S  | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| T  | BMVW-t  | MT20   | 6.0 | 9.0 | 4.50 | 2.00 |
| U  | BMVW-t  | MT20   | 5.0 | 8.0 | 2.50 | 2.00 |
| V  | BMV1-p  | MT20   | 3.0 | 6.0 |      |      |

CONNECTION REQUIREMENTS

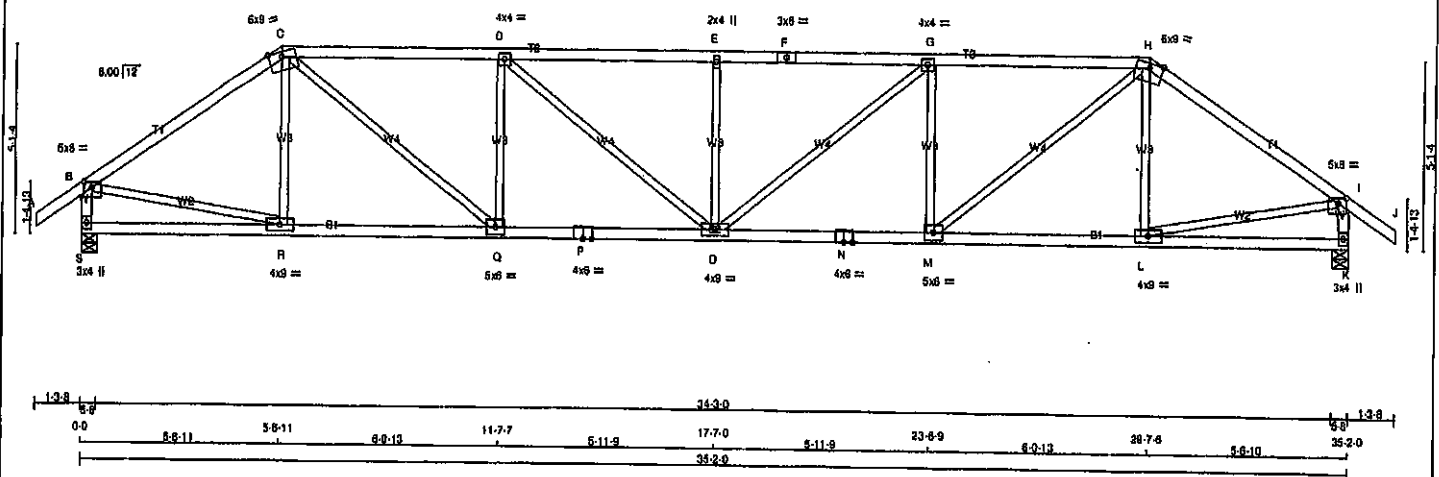
- 1) G1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only  
DWG# T-2007146 22

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| 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 |                          |                      |                 | TRUSS DESC.                          |          |

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| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | 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   |
| 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 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                        | TTWW-m  | MT20   | 8.0 | 9.0 | Edge      |
| D                        | TMWW-l  | MT20   | 4.0 | 4.0 |           |
| E                        | TMW-w   | MT20   | 2.0 | 4.0 |           |
| F                        | TS-l    | MT20   | 3.0 | 8.0 |           |
| G                        | TMWW-l  | MT20   | 4.0 | 4.0 |           |
| H                        | TTWW-m  | MT20   | 8.0 | 9.0 | Edge      |
| I                        | TMWV-p  | MT20   | 5.0 | 8.0 | 1.75 2.75 |
| K                        | BMV1-p  | MT20   | 3.0 | 4.0 |           |
| L                        | BMWV-l  | MT20   | 4.0 | 9.0 |           |
| M                        | BMWV-l  | MT20   | 5.0 | 8.0 |           |
| N                        | BS-l    | MT20   | 4.0 | 6.0 |           |
| O                        | BMWWV-l | MT20   | 4.0 | 9.0 |           |
| P                        | BS-l    | MT20   | 4.0 | 6.0 |           |
| Q                        | BMWWV-l | MT20   | 5.0 | 8.0 |           |
| R                        | BMWWV-l | MT20   | 4.0 | 9.0 |           |
| 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       |      |      |      | MAXIMUM FACTORED |        |       |       |
| GROSS REACTION |      |      |      | GROSS REACTION   |        |       |       |
| JT             | VERT | HORZ | DOWN | HORZ             | UPLIFT | IN-SX | IN-SX |
| S              | 2085 | 0    | 2085 | 0                | 0      | 5-8   | 5-8   |
| K              | 2085 | 0    | 2085 | 0                | 0      | 5-8   | 5-8   |

| UNFACTORED REACTIONS |           |         |       |           |           |         |       |
|----------------------|-----------|---------|-------|-----------|-----------|---------|-------|
| JT                   | 1ST LCASE | MAX     | MIN   | COMPONENT | REACTIONS |         |       |
|                      | COMBINED  | SNOW    | LIVE  | PERM      | LIVE      | WIND    | DEAD  |
| S                    | 1458      | 970 / 0 | 0 / 0 | 0 / 0     | 0 / 0     | 488 / 0 | 0 / 0 |
| K                    | 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) 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 (PLF) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |
| A-B                   | 0 / 35                    | -91.8                     | -91.8 0.12 (1)            | 10.00                     | R-C   | -243 / 10                 | 0.09 (1)                  | 0.09 (1)                  | 0.09 (1)                  |
| B-C                   | -2287 / 0                 | -91.8                     | -91.8 0.70 (1)            | 3.78                      | C-Q   | 0 / 1689                  | 0.38 (1)                  | 0.38 (1)                  | 0.38 (1)                  |
| C-D                   | -3213 / 0                 | -91.8                     | -91.8 0.80 (1)            | 3.19                      | Q-D   | -929 / 0                  | 0.38 (1)                  | 0.38 (1)                  | 0.38 (1)                  |
| D-E                   | -3504 / 0                 | -91.8                     | -91.8 0.85 (1)            | 2.87                      | D-O   | 0 / 489                   | 0.11 (1)                  | 0.11 (1)                  | 0.11 (1)                  |
| E-F                   | -3584 / 0                 | -91.8                     | -91.8 0.85 (1)            | 2.87                      | O-E   | -505 / 0                  | 0.19 (1)                  | 0.19 (1)                  | 0.19 (1)                  |
| F-G                   | -3584 / 0                 | -91.8                     | -91.8 0.85 (1)            | 3.19                      | M-G   | -929 / 0                  | 0.38 (1)                  | 0.38 (1)                  | 0.38 (1)                  |
| G-H                   | -3213 / 0                 | -91.8                     | -91.8 0.80 (1)            | 3.78                      | M-H   | 0 / 1670                  | 0.38 (1)                  | 0.38 (1)                  | 0.38 (1)                  |
| H-I                   | -2287 / 0                 | -91.8                     | -91.8 0.70 (1)            | 10.00                     | L-H   | -243 / 10                 | 0.09 (1)                  | 0.09 (1)                  | 0.09 (1)                  |
| I-J                   | 0 / 35                    | -91.8                     | -91.8 0.12 (1)            | 10.00                     | B-R   | 0 / 1943                  | 0.44 (1)                  | 0.44 (1)                  | 0.44 (1)                  |
| S-B                   | -2023 / 0                 | 0.0                       | 0.0 0.21 (1)              | 5.94                      | L-I   | 0 / 1943                  | 0.44 (1)                  | 0.44 (1)                  | 0.44 (1)                  |
| K-I                   | -2023 / 0                 | 0.0                       | 0.0 0.21 (1)              | 5.94                      |       |                           |                           |                           |                           |
| 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 0.68 (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  
LL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
LL = 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, 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. RAW LOAD) EQUALS 28.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/380 (1.17")  
CALCULATED VERT. DEFL. (LL) = L/989 (0.21")  
ALLOWABLE DEFL. (TL) = L/380 (1.17")  
CALCULATED VERT. DEFL. (TL) = L/989 (0.38")

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), SG=0.28/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1897 788 1897 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

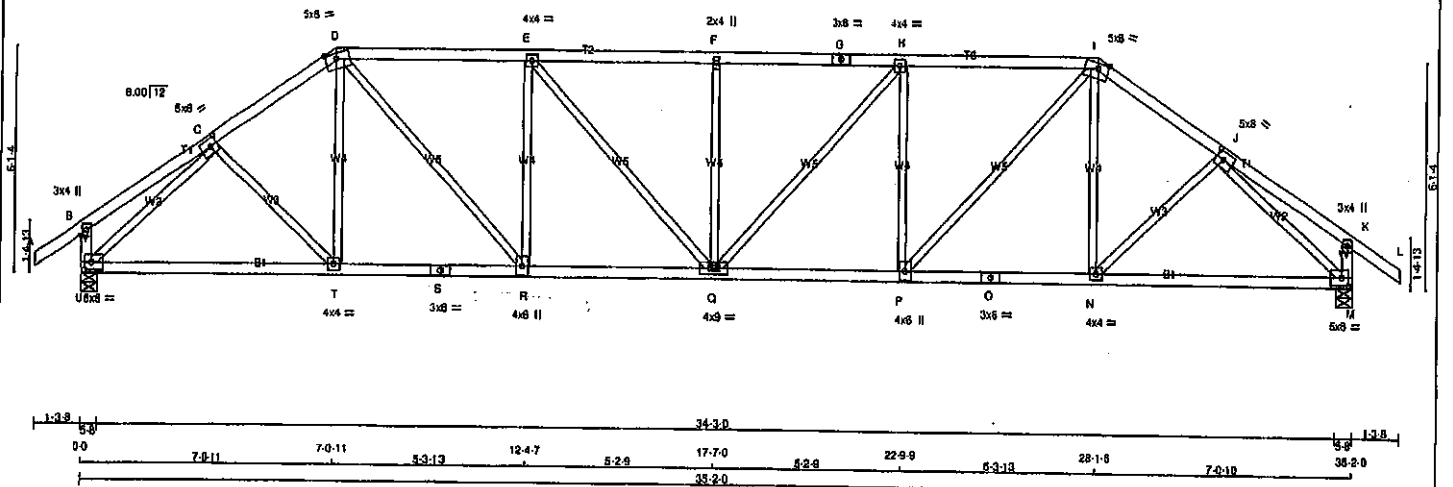
JSI GRIP = 0.87 (B) (INPUT = 0.90)  
JSI METAL = 0.74 (P) (INPUT = 1.00)



Structural component only  
DWG# T-2007147

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

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ID:K7TPdng0npl1q1YobWOFzideG-6jO7JbugKnairecCH5ZgyXDemJ7DB9HS2Wpx77zNBDc  
Scale = 1:37.5



| LUMBER            |        |      |      |
|-------------------|--------|------|------|
| N. L. G. A. RULES | CHORDS | SIZE | DRY  |
| A - D             | 2x4    | DRY  | No.2 |
| D - G             | 2x4    | DRY  | No.2 |
| G - I             | 2x4    | DRY  | No.2 |
| I - L             | 2x4    | DRY  | No.2 |
| U - B             | 2x4    | DRY  | No.2 |
| M - K             | 2x4    | DRY  | No.2 |
| U - S             | 2x4    | DRY  | No.2 |
| S - O             | 2x4    | DRY  | No.2 |
| O - M             | 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-i | MT20 | 5.0 | 6.0 | 2.50 2.50 |
| D                        | TTWW-m | MT20 | 5.0 | 6.0 | 1.75 3.50 |
| E                        | TMWW-i | MT20 | 4.0 | 4.0 |           |
| F                        | TMWW-w | MT20 | 2.0 | 4.0 |           |
| G                        | TS-i   | MT20 | 3.0 | 6.0 |           |
| H                        | TMWW-i | MT20 | 4.0 | 4.0 |           |
| I                        | TTWW-m | MT20 | 5.0 | 6.0 | 1.75 3.50 |
| J                        | TMWW-i | MT20 | 5.0 | 6.0 | 2.50 2.50 |
| K                        | TMV+p  | MT20 | 3.0 | 4.0 |           |
| M                        | BMWW-i | MT20 | 5.0 | 6.0 | 2.50 2.25 |
| N                        | BMWW-i | MT20 | 4.0 | 4.0 |           |
| O                        | SS-i   | MT20 | 3.0 | 6.0 |           |
| P                        | BMWW-w | MT20 | 4.0 | 6.0 |           |
| Q                        | BMWW-w | MT20 | 4.0 | 6.0 |           |
| R                        | BMWW-w | MT20 | 4.0 | 6.0 |           |
| S                        | SS-i   | MT20 | 3.0 | 6.0 |           |
| T                        | BMWW-i | MT20 | 4.0 | 4.0 |           |
| U                        | BMWW-i | MT20 | 5.0 | 6.0 | 2.50 2.25 |

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

| BEARINGS |                | FACTORED       |      | MAXIMUM FACTORED |        | INPUT |       | REQD |       |
|----------|----------------|----------------|------|------------------|--------|-------|-------|------|-------|
| JT       | GROSS REACTION | GROSS REACTION | DOWN | HORZ             | UPLIFT | BRG   | IN-SX | BRG  | IN-SX |
| U        | 2085           | 0              | 2085 | 0                | 0      | 5-8   | 5-8   | 5-8  | 5-8   |
| M        | 2085           | 0              | 2085 | 0                | 0      | 5-8   | 5-8   | 5-8  | 5-8   |

## UNFACTORED REACTIONS

| JT | COMBINED | SNOW  | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
|----|----------|-------|------|-----------|------|-------|------|
| U  | 1458     | 870/0 | 0/0  | 0/0       | 0/0  | 488/0 | 0/0  |
| M  | 1458     | 870/0 | 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 |             | FACTORED         |                           | WEBS  |             | FACTORED                  |                           |
|--------|-------------|------------------|---------------------------|-------|-------------|---------------------------|---------------------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | FORCE (LBS) | MAX. UNBRACED LENGTH (LC) | MAX. UNBRACED LENGTH (LC) |
| FR-TO  |             |                  |                           | FR-TO |             |                           |                           |
| A-B    | 0/35        | -91.8            | -91.8 0.12 (1)            | 10.00 | C-T         | 0/135                     | 0.03 (4)                  |
| B-C    | 0/18        | -91.8            | -91.8 0.16 (1)            | 10.00 | T-D         | 0/80                      | 0.03 (4)                  |
| C-D    | -2305/0     | -91.8            | -91.8 0.23 (1)            | 4.31  | D-R         | 0/1218                    | 0.27 (1)                  |
| D-E    | -2723/0     | -91.8            | -91.8 0.54 (1)            | 3.69  | E-F         | -914/0                    | 0.48 (1)                  |
| E-F    | -2968/0     | -91.8            | -91.8 0.58 (1)            | 3.53  | F-G         | 0/383                     | 0.08 (1)                  |
| F-G    | -2968/0     | -91.8            | -91.8 0.58 (1)            | 3.53  | G-H         | -440/0                    | 0.28 (1)                  |
| G-H    | -2968/0     | -91.8            | -91.8 0.58 (1)            | 3.53  | H-I         | 0/383                     | 0.08 (1)                  |
| H-I    | -2723/0     | -91.8            | -91.8 0.54 (1)            | 3.69  | I-J         | -914/0                    | 0.48 (1)                  |
| I-J    | -2305/0     | -91.8            | -91.8 0.23 (1)            | 4.31  | J-K         | 0/1218                    | 0.27 (1)                  |
| J-K    | 0/18        | -91.8            | -91.8 0.16 (1)            | 10.00 | K-L         | 0/80                      | 0.03 (4)                  |
| K-L    | 0/35        | -91.8            | -91.8 0.12 (1)            | 10.00 | L-M         | 0/135                     | 0.03 (4)                  |
| L-M    | -255/0      | 0.0              | 0.0 0.03 (1)              | 7.81  | M-N         | -2515/0                   | 0.97 (1)                  |
| M-N    | -255/0      | 0.0              | 0.0 0.03 (1)              | 7.81  | N-O         | -2515/0                   | 0.97 (1)                  |
| O-P    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | P-Q         | 0/1002                    | 0.97 (1)                  |
| P-Q    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | Q-R         | 0/1002                    | 0.97 (1)                  |
| Q-R    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | R-S         | 0/1002                    | 0.97 (1)                  |
| R-S    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | S-T         | 0/1002                    | 0.97 (1)                  |
| S-T    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | T-U         | 0/1002                    | 0.97 (1)                  |
| T-U    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | U-V         | 0/1002                    | 0.97 (1)                  |
| U-V    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | V-W         | 0/1002                    | 0.97 (1)                  |
| V-W    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | W-X         | 0/1002                    | 0.97 (1)                  |
| W-X    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | X-Y         | 0/1002                    | 0.97 (1)                  |
| X-Y    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | Y-Z         | 0/1002                    | 0.97 (1)                  |
| Y-Z    | 0/1002      | -18.5            | -18.5 0.40 (1)            | 10.00 | Z-A         | 0/1002                    | 0.97 (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. OC

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 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/899 (0.16')  
ALLOWABLE DEFL.(TL) = L/360 (1.17')  
CALCULATED VERT. DEFL.(TL) = L/899 (0.29')

CSI: TC=0.68/1.00 (E-F:1), BC=0.48/1.00 (G-H:1), WB=0.97/1.00 (C-U:1), SS=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 (PS) (PL) (PLJ)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1887 1658

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

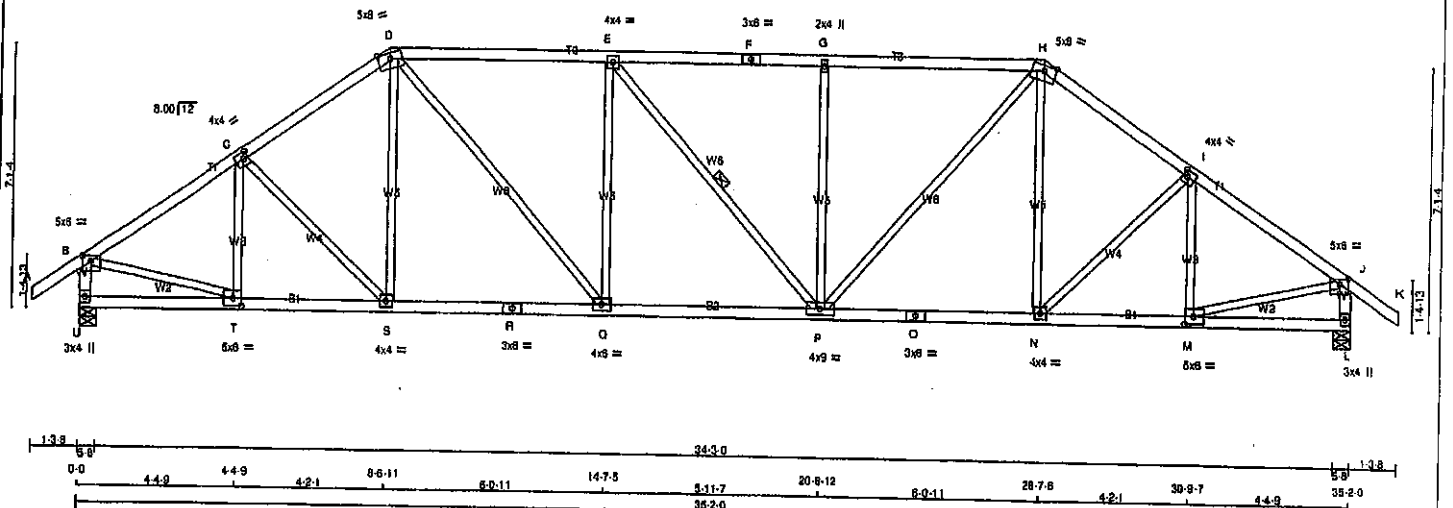
JSI GRIP = 0.90 (W) (INPUT = 0.90)  
JSI METAL = 0.63 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007148

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408169</b>       | TRUSS NAME<br><b>T23</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.                          |          |

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Sat Apr 25 12:48:28 2020 Page 1  
 ID:K7TPdhgJ0np1qYdbWfOfzIdeG-bvyNWxvi54IZToBQap4vVknEjLmwjVbHAZVXRzNBOb  
 13.8 0.0 4.49 4.49 4.21 8.611 8.011 14.75 5.117 20.812 30.97 30.97 33.20 33.20 33.20  
 1.38 0.0 4.49 4.49 4.21 8.611 8.011 14.75 5.117 20.812 30.97 30.97 33.20 33.20 33.20  
 Scale = 1:57.2



| LUMBER                |      |        |        |
|-----------------------|------|--------|--------|
| N. L. G. A. RULES     |      |        |        |
| CHORDS                | SIZE | LUMBER | DESCR. |
| A - D                 | 2x4  | DRY    | No.2   |
| E - F                 | 2x4  | DRY    | No.2   |
| G - H                 | 2x4  | DRY    | No.2   |
| I - K                 | 2x4  | DRY    | No.2   |
| L - B                 | 2x4  | DRY    | No.2   |
| U - 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                |      |        |        |
| DRY: SEASONED LUMBER. |      |        |        |

| PLATES (table in inches) |        |        |     |     |           |
|--------------------------|--------|--------|-----|-----|-----------|
| JT                       | TYPE   | PLATES | W   | LEN | Y X       |
| B                        | TMW-p  | MT20   | 6.0 | 6.0 | 1.75 2.75 |
| C                        | TMW-t  | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| D                        | TTW-m  | MT20   | 5.0 | 8.0 | Edge      |
| E                        | TMW-t  | MT20   | 4.0 | 4.0 |           |
| F                        | TS-t   | MT20   | 3.0 | 6.0 |           |
| G                        | TMW-w  | MT20   | 2.0 | 4.0 |           |
| H                        | TTW-m  | MT20   | 5.0 | 8.0 | Edge      |
| I                        | TMW-t  | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| J                        | TMW-p  | MT20   | 5.0 | 6.0 | 1.75 2.75 |
| L                        | BMV1-p | MT20   | 3.0 | 4.0 |           |
| M                        | BMW-t  | MT20   | 5.0 | 8.0 | 2.50 2.75 |
| N                        | BMW-t  | MT20   | 4.0 | 4.0 |           |
| O                        | BS-t   | MT20   | 3.0 | 6.0 |           |
| P                        | BMW-t  | MT20   | 4.0 | 4.0 |           |
| Q                        | BMW-t  | MT20   | 4.0 | 4.0 |           |
| R                        | BS-t   | MT20   | 3.0 | 6.0 |           |
| S                        | BMW-t  | MT20   | 4.0 | 4.0 |           |
| T                        | BMW-t  | MT20   | 5.0 | 6.0 | 2.50 2.75 |
| 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 |                | FACTORED | MAXIMUM FACTORED | INPUT | RECORD |
|----------|----------------|----------|------------------|-------|--------|
| JT       | GROSS REACTION | VERT     | HORZ             | DOWN  | UP     |
| U        | 2065           | 0        | 0                | 0     | 5-8    |
| L        | 2065           | 0        | 0                | 0     | 5-8    |

| UNFACTORED REACTIONS |          | 1ST CASE | MAX/MIN COMPONENT REACTIONS |
|----------------------|----------|----------|-----------------------------|
| JT                   | COMBINED | SNOW     | LIVE                        |
| U                    | 1488     | 970/0    | 0/0                         |
| L                    | 1488     | 970/0    | 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  |                           | WEBS                           |                                |
| MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED HORZ. LOAD (PLF) |
| FR-TO   |                           | FROM                           | TO                             |
| A-B     | 0/35                      | -91.8                          | -91.8 0.12 (1)                 |
| B-C     | -2270/0                   | -91.8                          | -91.8 0.37 (1)                 |
| C-D     | -2254/0                   | -91.8                          | -91.8 0.36 (1)                 |
| D-E     | -2485/0                   | -91.8                          | -91.8 0.64 (1)                 |
| E-F     | -2483/0                   | -91.8                          | -91.8 0.64 (1)                 |
| F-G     | -2483/0                   | -91.8                          | -91.8 0.64 (1)                 |
| G-H     | -2483/0                   | -91.8                          | -91.8 0.63 (1)                 |
| H-I     | -2254/0                   | -91.8                          | -91.8 0.38 (1)                 |
| I-J     | -2289/0                   | -91.8                          | -91.8 0.37 (1)                 |
| J-K     | 0/35                      | -91.8                          | -91.8 0.12 (1)                 |
| U-B     | -2027/0                   | 0.0                            | 0.0 0.21 (1)                   |
| L-J     | -2028/0                   | 0.0                            | 0.0 0.21 (1)                   |
| U-T     | 0/0                       | -18.5                          | -18.5 0.08 (4)                 |
| T-S     | 0/1909                    | -18.5                          | -18.5 0.37 (1)                 |
| S-R     | 0/1854                    | -18.5                          | -18.5 0.36 (1)                 |
| R-Q     | 0/1854                    | -18.5                          | -18.5 0.36 (1)                 |
| Q-P     | 0/2485                    | -18.5                          | -18.5 0.47 (1)                 |
| P-O     | 0/1854                    | -18.5                          | -18.5 0.36 (1)                 |
| O-N     | 0/1854                    | -18.5                          | -18.5 0.36 (1)                 |
| N-M     | 0/1908                    | -18.5                          | -18.5 0.37 (1)                 |
| M-L     | 0/0                       | -18.5                          | -18.5 0.08 (4)                 |

TOTAL WEIGHT = 2 X 155 = 309 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. CC

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

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

THIS DESIGN COMPLIES WITH:  
 - PART 8 OF CBC 2010, CBC 2012, ABC 2019  
 - PART 9 OF CBC 2012 (2019 AMENDMENT)  
 - CSA 088-09, CSA 088-14  
 - TPIC 2011, TPIC 2014

(35% 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 (0.12")  
 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) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

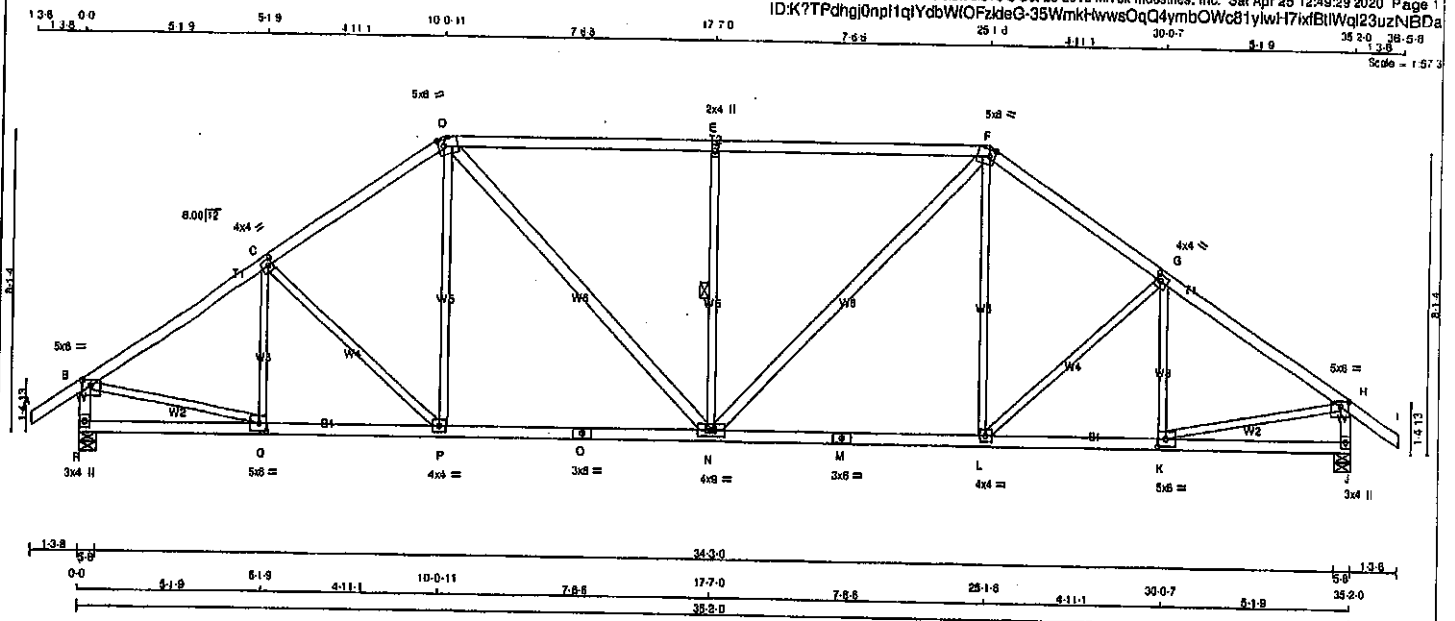
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.80 (D) (INPUT = 0.80)  
 JSI METAL= 0.82 (C) (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 |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |



| LUMBER            |      |        |        |
|-------------------|------|--------|--------|
| N. L. G. A. RULES |      |        |        |
| CHORDS            | SIZE | LUMBER | DESCR. |
| A - D             | 2x4  | DRY    | No.2   |
| D - F             | 2x4  | DRY    | No.2   |
| F - I             | 2x4  | DRY    | No.2   |
| R - 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          | 2x3  | DRY    | No.2   |
| EXCEPT            |      |        |        |
| D - N             | 2x4  | DRY    | No.2   |
| N - F             | 2x4  | DRY    | No.2   |

DRY: SEASONED LUMBER.

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

| BEARINGS |      | FACTORED       | MAXIMUM FACTORED | INPUT  | RECORD |
|----------|------|----------------|------------------|--------|--------|
|          |      | GROSS REACTION | GROSS REACTION   | BRG    | BRG    |
| JT       | VERT | HORZ           | DOWN             | UPLIFT | IN-SX  |
| R        | 2085 | 0              | 2085             | 0      | 5-8    |
| J        | 2085 | 0              | 2085             | 0      | 5-8    |

#### UNFACTORED REACTIONS

| 1ST LCASE | 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) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  | FROM TO                   | FR-TO | FROM TO                   |
| A-B    | 0 / 35                    | Q-C   | -321 / 0                  |
| B-C    | -2318 / 0                 | C-P   | -218 / 0                  |
| C-D    | -2188 / 0                 | P-D   | 0 / 288                   |
| D-E    | -2274 / 0                 | D-N   | 0 / 891                   |
| E-F    | -2274 / 0                 | N-E   | -851 / 0                  |
| F-G    | -2185 / 0                 | N-F   | 0 / 891                   |
| G-H    | -2317 / 0                 | L-F   | 0 / 288                   |
| H-I    | 0 / 35                    | L-G   | -218 / 0                  |
| I-B    | -2022 / 0                 | K-Q   | -321 / 0                  |
| J-H    | -2022 / 0                 | B-Q   | 0 / 1988                  |
| R-Q    | 0 / 0                     | K-H   | 0 / 1985                  |
| Q-P    | 0 / 1963                  |       |                           |
| P-O    | 0 / 1784                  |       |                           |
| O-N    | 0 / 1784                  |       |                           |
| N-M    | 0 / 1784                  |       |                           |
| M-L    | 0 / 1784                  |       |                           |
| L-K    | 0 / 1953                  |       |                           |
| K-J    | 0 / 0                     |       |                           |

TOTAL WEIGHT = 2 X 150 = 317 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 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 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 (0.11")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.81/1.00 (D-E:1), BC=0.41/1.00 (N-P:1), WB=0.48/1.00 (B-C: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

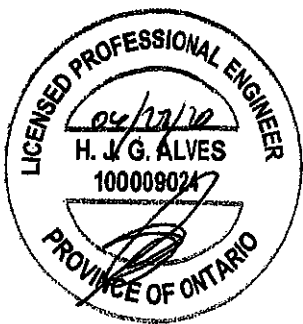
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1987 1858

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)

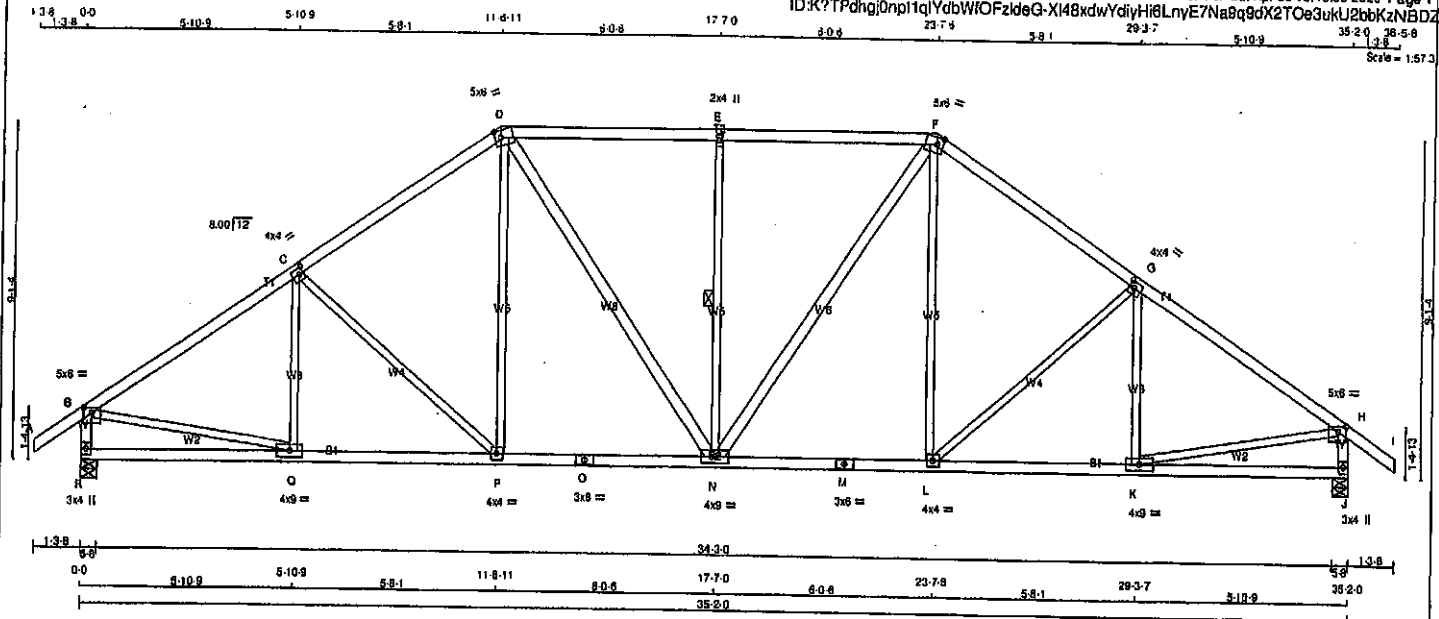


Structural component only  
DWG# T-2007150

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|------------------|----------|
| 408169   | T25        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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| LUMBER | M. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER | DESCR. |
|--------|-------------------|--------|------|-----|--------|--------|
| A - D  | 2x4               | DRY    | No.2 | SPF |        |        |
| D - F  | 2x4               | DRY    | No.2 | SPF |        |        |
| F - I  | 2x4               | DRY    | No.2 | SPF |        |        |
| I - H  | 2x4               | DRY    | No.2 | SPF |        |        |
| H - J  | 2x4               | DRY    | No.2 | SPF |        |        |
| J - K  | 2x4               | DRY    | No.2 | SPF |        |        |
| K - L  | 2x4               | DRY    | No.2 | SPF |        |        |
| L - M  | 2x4               | DRY    | No.2 | SPF |        |        |
| M - N  | 2x4               | DRY    | No.2 | SPF |        |        |
| N - O  | 2x4               | DRY    | No.2 | SPF |        |        |
| O - P  | 2x4               | DRY    | No.2 | SPF |        |        |
| P - Q  | 2x4               | DRY    | No.2 | SPF |        |        |
| Q - R  | 2x4               | DRY    | No.2 | SPF |        |        |
| R - S  | 2x4               | DRY    | No.2 | SPF |        |        |
| S - T  | 2x4               | DRY    | No.2 | SPF |        |        |
| T - U  | 2x4               | DRY    | No.2 | SPF |        |        |
| U - V  | 2x4               | DRY    | No.2 | SPF |        |        |
| V - W  | 2x4               | DRY    | No.2 | SPF |        |        |
| W - X  | 2x4               | DRY    | No.2 | SPF |        |        |
| X - Y  | 2x4               | DRY    | No.2 | SPF |        |        |
| Y - Z  | 2x4               | DRY    | No.2 | SPF |        |        |
| Z - A  | 2x4               | DRY    | No.2 | SPF |        |        |

| PLATES (table 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                        | TMVW-m   | MT20   | 5.0 | 6.0 | 2.25 2.00 |
| E                        | TMVW-w   | MT20   | 2.0 | 4.0 |           |
| F                        | TMVW-m   | MT20   | 5.0 | 6.0 | 2.25 2.00 |
| G                        | TMVW-l   | 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-l   | MT20   | 4.0 | 9.0 |           |
| L                        | BMVW-l   | MT20   | 4.0 | 4.0 |           |
| M                        | BS-l     | MT20   | 3.0 | 6.0 |           |
| N                        | BMVWVW-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   | 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

| FACTORED       | MAXIMUM FACTORED | INPUT  | REQD  |
|----------------|------------------|--------|-------|
| GROSS REACTION | GROSS REACTION   | BRG    | BRG   |
| JT VERT        | DOWN             | UPLIFT | IN-SX |
| JT 2085        | 0                | 0      | 5-8   |
| R 2085         | 0                | 0      | 5-8   |
| J 2085         | 0                | 0      | 5-8   |

| 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 = 3.99 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. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) |
|--------|-----------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO  | FR-TO     | FR-TO                     | FR-TO                     | FR-TO                          | FR-TO                          | FR-TO                          | FR-TO                          | FR-TO                          | FR-TO                          |
| A-B    | 0 / 35    | -91.8                     | -91.8                     | 0.12 (1)                       | 10.00                          | 0 / 35                         | -91.8                          | -91.8                          | 0.12 (1)                       |
| B-C    | -2347 / 0 | -91.8                     | -91.8                     | 0.52 (1)                       | 3.99                           | 0 / 35                         | -91.8                          | -91.8                          | 0.52 (1)                       |
| C-D    | -2086 / 0 | -91.8                     | -91.8                     | 0.48 (1)                       | 4.22                           | 0 / 35                         | -91.8                          | -91.8                          | 0.48 (1)                       |
| D-E    | -1986 / 0 | -91.8                     | -91.8                     | 0.49 (1)                       | 4.28                           | 0 / 35                         | -91.8                          | -91.8                          | 0.49 (1)                       |
| E-F    | -1986 / 0 | -91.8                     | -91.8                     | 0.49 (1)                       | 4.28                           | 0 / 35                         | -91.8                          | -91.8                          | 0.49 (1)                       |
| F-G    | -2086 / 0 | -91.8                     | -91.8                     | 0.48 (1)                       | 4.22                           | 0 / 35                         | -91.8                          | -91.8                          | 0.48 (1)                       |
| G-H    | -2347 / 0 | -91.8                     | -91.8                     | 0.52 (1)                       | 3.99                           | 0 / 35                         | -91.8                          | -91.8                          | 0.52 (1)                       |
| H-I    | 0 / 35    | -91.8                     | -91.8                     | 0.12 (1)                       | 10.00                          | 0 / 35                         | -91.8                          | -91.8                          | 0.12 (1)                       |
| I-J    | -2086 / 0 | 0.0                       | 0.0                       | 0.21 (1)                       | 5.94                           | 0 / 35                         | 0.0                            | 0.0                            | 0.21 (1)                       |
| J-K    | -2086 / 0 | 0.0                       | 0.0                       | 0.21 (1)                       | 5.94                           | 0 / 35                         | 0.0                            | 0.0                            | 0.21 (1)                       |
| K-L    | 0 / 0     | -18.5                     | -18.5                     | 0.14 (4)                       | 10.00                          | 0 / 0                          | -18.5                          | -18.5                          | 0.14 (4)                       |
| L-M    | 0 / 1981  | -18.5                     | -18.5                     | 0.39 (1)                       | 10.00                          | 0 / 1981                       | -18.5                          | -18.5                          | 0.39 (1)                       |
| M-N    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| N-O    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| O-P    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| P-Q    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| Q-R    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| R-S    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| S-T    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| T-U    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| U-V    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| V-W    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| W-X    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| X-Y    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| Y-Z    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |
| Z-A    | 0 / 1716  | -18.5                     | -18.5                     | 0.34 (1)                       | 10.00                          | 0 / 1716                       | -18.5                          | -18.5                          | 0.34 (1)                       |

TOTAL WEIGHT = 2 X 165 = 329 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. CG**

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 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 (0.10")

CSH: TC=0.82/1.00 (B-C:1), BC=0.39/1.00 (P-Q:1), WB=0.45/1.00 (B-Q:1), SS=0.27/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 768 1987 1658

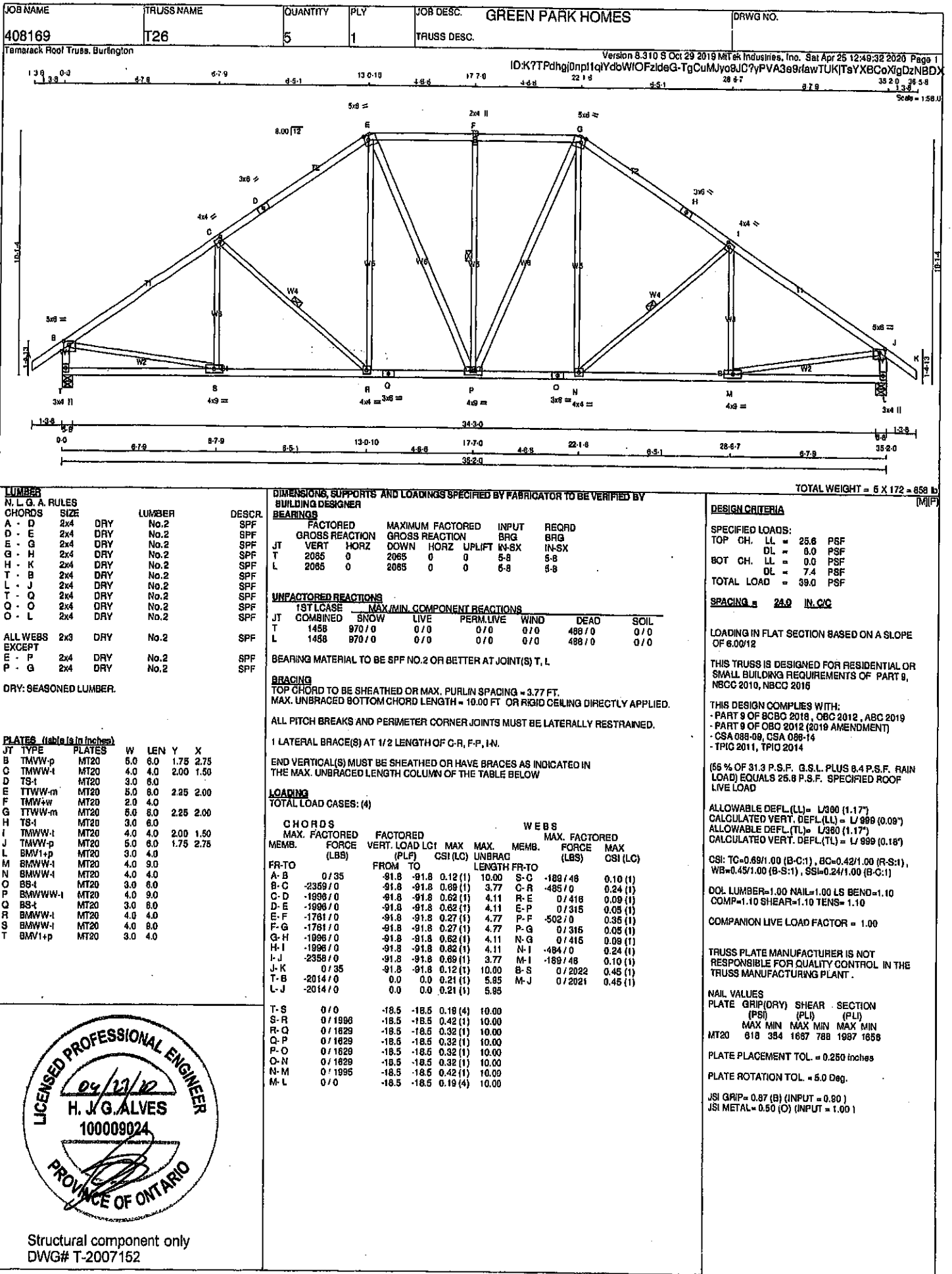
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (S) (INPUT = 0.80)  
JSI METAL = 0.58 (M) (INPUT = 1.00)



Structural component only  
DWG# T-2007151





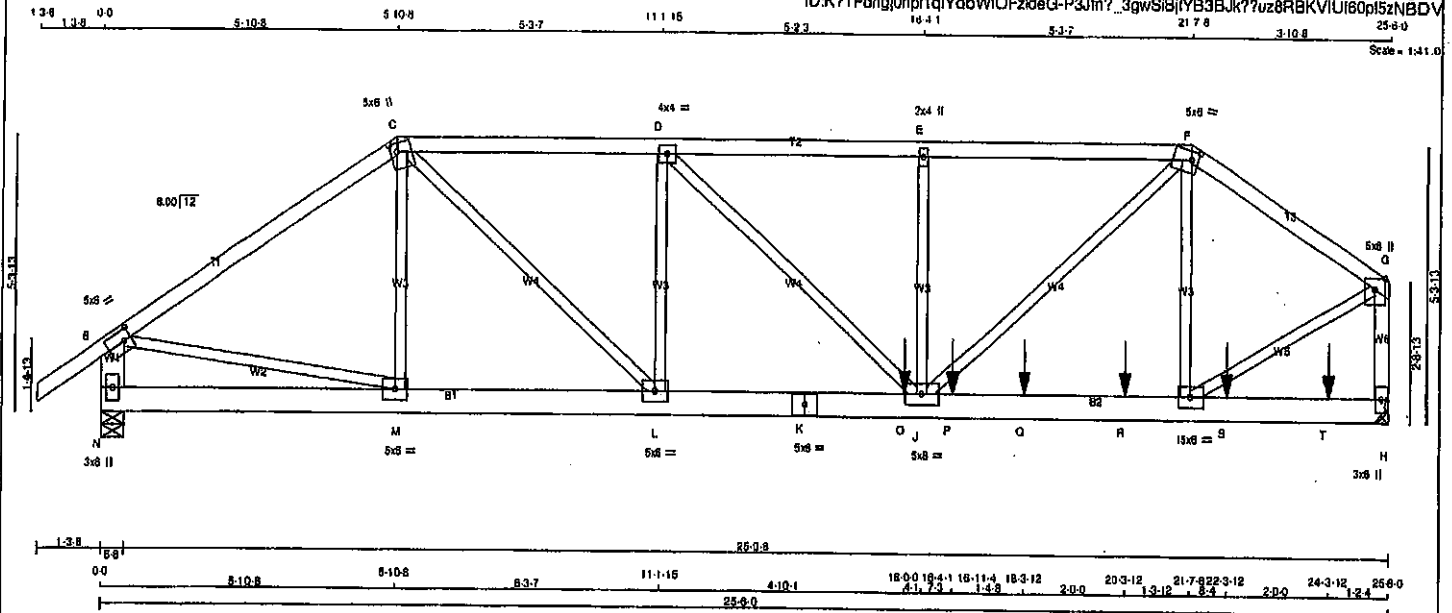


|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408169   | T28        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 122 = 245 lb

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)   |
|------------------------------------------|----------------------|--------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |              |
| A-C                                      | 12                   | TOP          |
| C-F                                      | 12                   | TOP          |
| F-G                                      | 12                   | TOP          |
| H-G                                      | 12                   | TOP          |
| N-B                                      | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| N-K                                      | 12                   | TOP          |
| K-H                                      | 12                   | TOP          |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| E-J                                      | 8                    | SIDE (183.1) |
| 2x3                                      | 8                    | SIDE (77.0)  |

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.

#### 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             | HORZ  | UPLIFT |
| N 2088         | 0                | 2088  | 0      |
| H 2756         | 0                | 2756  | 0      |

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  |
| N        | 1470     | 984 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 478 / 0 | 0 / 0 |
| H        | 1941     | 1320 / 0                     | 0 / 0 | 0 / 0      | 0 / 0 | 620 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.76 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 |                           |                  |                                    |
|--------|---------------------------|------------------|------------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. FACTORED UNBRACED LENGTH (FT) |
| A-B    | 0 / 35                    | -91.8            | 10.00                              |
| B-C    | -2383 / 0                 | -91.8            | 5.41                               |
| C-D    | -3093 / 0                 | -91.8            | 5.03                               |
| D-E    | -3519 / 0                 | -91.8            | 4.76                               |
| E-F    | -3519 / 0                 | -91.8            | 4.76                               |
| F-G    | -2352 / 0                 | -91.8            | 5.69                               |
| N-B    | -2037 / 0                 | 0.0              | 7.81                               |
| H-G    | -2832 / 0                 | 0.0              | 7.01                               |
| N-M    | 0 / 0                     | -18.5            | 10.00                              |
| M-L    | 0 / 1859                  | -18.5            | 10.00                              |
| L-K    | 0 / 3093                  | -18.5            | 10.00                              |
| K-O    | 0 / 3093                  | -18.5            | 10.00                              |
| O-J    | 0 / 3093                  | -18.5            | 10.00                              |
| J-P    | 0 / 1942                  | -18.5            | 10.00                              |
| P-Q    | 0 / 1942                  | -18.5            | 10.00                              |
| Q-R    | 0 / 1942                  | -18.5            | 10.00                              |
| R-I    | 0 / 1942                  | -18.5            | 10.00                              |
| I-S    | 0 / 0                     | -18.5            | 10.00                              |
| S-T    | 0 / 0                     | -18.5            | 10.00                              |
| T-H    | 0 / 0                     | -18.5            | 10.00                              |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LOC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| O  | 16-0-0  | -397 | -397 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 16-11-4 | -187 | -187 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 16-3-12 | -187 | -187 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 20-3-12 | -187 | -187 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 22-3-12 | -174 | -174 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 24-3-12 | -173 | -173 | ---  | FRONT | 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 = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2010, 2015, 2018, 2019, 2020, 2021, 2022, 2023, 2024  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, 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 26.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.85")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")  
ALLOWABLE DEFL. (TL) = L/360 (0.85")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.11")

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), SS=0.34/1.00 (J-L:1)

DOL LUMBER=1.00 NAIL=1.00 LB BEND=1.00

COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

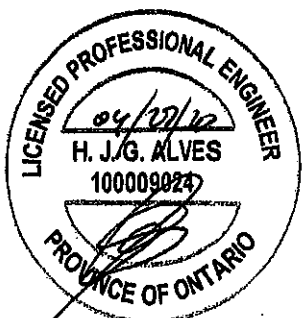
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (F) (INPUT = 0.80)  
JSI METAL = 0.45 (G) (INPUT = 1.00)



Structural component only  
DWG# T-2007154 1/2

CONTINUED ON PAGE 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 |                   |               |          | Version 8.310 8 Oct 29 2019 Mitek Industries, Inc. Sat Apr 28 12:49:34 2020 Page 2<br>ID:K?TPdhl0nol1qYdbWlQFzdeG-P3J/n?_3awSIBIYB3B,k?7uz8R8KVIUJf80pl5zNBDV |          |

**PLATES (table is in inches)**

| JT      | TYPE    | PLATES | W   | LEN | Y    | X    |
|---------|---------|--------|-----|-----|------|------|
| B       | TMVW-l  | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| C       | TTWW+m  | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| D       | TMWW-l  | MT20   | 4.0 | 4.0 |      |      |
| E       | TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| F       | TTWW-m  | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| G       | TMVW+p  | MT20   | 6.0 | 6.0 |      | Edge |
| H       | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |
| I, L, M |         |        |     |     |      |      |
| I       | BMWW4   | MT20   | 5.0 | 6.0 |      |      |
| J       | BMWWW-l | MT20   | 5.0 | 6.0 |      |      |
| K       | BS-l    | MT20   | 5.0 | 6.0 |      |      |
| N       | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |

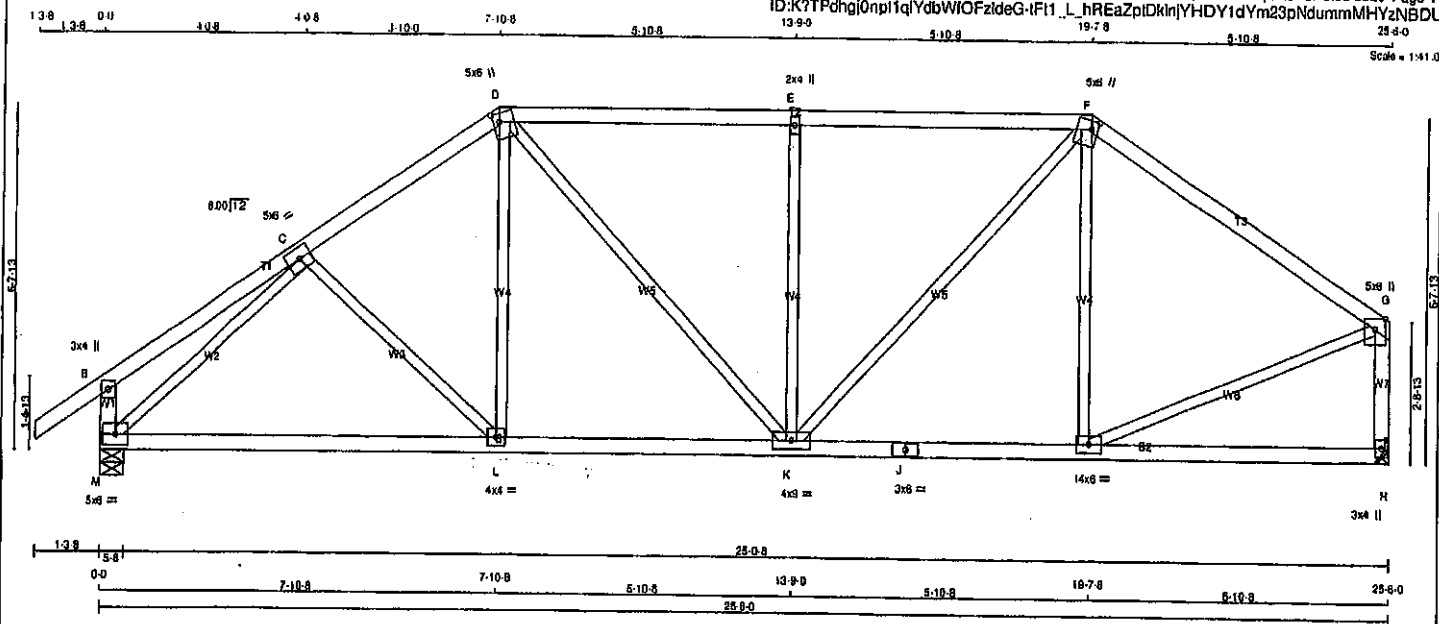
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.



Structural component only  
DWG# T-2007154 *mv*

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408169</b>       | TRUSS NAME<br><b>T29</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.                          |          |

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**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    |
| M - B    | 2x4  | DRY No.2 | SPF    |
| H - G    | 2x4  | DRY No.2 | SPF    |
| M - J    | 2x4  | DRY No.2 | SPF    |
| J - H    | 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       | TMVap   | MT20 | 3.0 | 4.0 |           |
| C       | TMVW-t  | MT20 | 5.0 | 8.0 |           |
| D       | TTWW+am | MT20 | 5.0 | 8.0 | 2.00 1.50 |
| E       | TMVW+u  | MT20 | 2.0 | 4.0 |           |
| F       | TTWW+am | MT20 | 5.0 | 8.0 | 2.00 1.50 |
| G       | TMVW+u  | MT20 | 5.0 | 8.0 | Edge      |
| H       | BMV1+u  | MT20 | 3.0 | 4.0 |           |
| I       | BMVW-t  | MT20 | 4.0 | 8.0 |           |
| J       | BS-t    | MT20 | 3.0 | 8.0 |           |
| K       | BMVW-t  | MT20 | 4.0 | 8.0 |           |
| L       | BMVW-t  | MT20 | 4.0 | 4.0 |           |
| M       | BMVW-t  | MT20 | 5.0 | 8.0 |           |

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

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

**BEARINGS**

|         | FACTORED       | MAXIMUM FACTORED | INPUT | REQD       |
|---------|----------------|------------------|-------|------------|
|         | GROSS REACTION | GROSS REACTION   | BRG   | BRG        |
| JT VERT | 1532           | 0                | 0     | 5-8        |
| M       | 1532           | 0                | 0     | 5-8        |
| H       | 1408           | 0                | 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 | MAX MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|------------------------------|-------|-------|------------|-------|---------|-------|
| M  | 1081     | 723 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 358 / 0 | 0 / 0 |
| H  | 894      | 652 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 342 / 0 | 0 / 0 |

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

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 4.89 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS |                           |                           |                        | WEBS  |                           |                        |          |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |          |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |          |
| A-B    | 0 / 35                    | -91.8 -91.8               | 0.12 (1)               | 10.00 | C-L                       | -80 / 27               | 0.04 (1) |
| B-C    | 0 / 22                    | -91.8 -91.8               | 0.22 (1)               | 10.00 | L-D                       | 0 / 209                | 0.05 (4) |
| C-D    | -1491 / 0                 | -91.8 -91.8               | 0.19 (1)               | 5.19  | D-K                       | 0 / 354                | 0.08 (1) |
| D-E    | -1484 / 0                 | -91.8 -91.8               | 0.44 (1)               | 4.89  | K-E                       | -682 / 0               | 0.48 (1) |
| E-F    | -1484 / 0                 | -91.8 -91.8               | 0.44 (1)               | 4.89  | K-F                       | 0 / 683                | 0.15 (1) |
| F-G    | -1228 / 0                 | -91.8 -91.8               | 0.44 (1)               | 5.25  | I-F                       | -282 / 0               | 0.21 (1) |
| M-B    | -268 / 0                  | 0.0 0.0                   | 0.03 (1)               | 7.81  | M-C                       | -1757 / 0              | 0.83 (1) |
| H-G    | -1362 / 0                 | 0.0 0.0                   | 0.20 (1)               | 6.98  | I-G                       | 0 / 1098               | 0.25 (1) |
| M-L    | 0 / 1279                  | -18.5 -18.5               | 0.36 (4)               | 10.00 |                           |                        |          |
| L-K    | 0 / 1223                  | -18.5 -18.5               | 0.36 (4)               | 10.00 |                           |                        |          |
| K-J    | 0 / 1014                  | -18.5 -18.5               | 0.28 (1)               | 10.00 |                           |                        |          |
| J-I    | 0 / 1014                  | -18.5 -18.5               | 0.28 (1)               | 10.00 |                           |                        |          |
| I-H    | 0 / 0                     | -18.5 -18.5               | 0.17 (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. O.C.**

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

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2018, CBC 2012, ABC 2019  
 - PART 9 OF CBC 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.85")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
 ALLOWABLE DEFL.(TL) = L/360 (0.85")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.44/1.00 (F-G:1), SC=0.38/1.00 (K-L:4), WB=0.83/1.00 (C-M: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

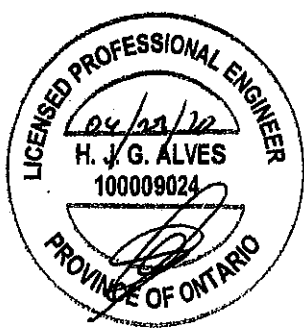
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
 PLATE GRIP (DRY) SHEAR SECTION  
 (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

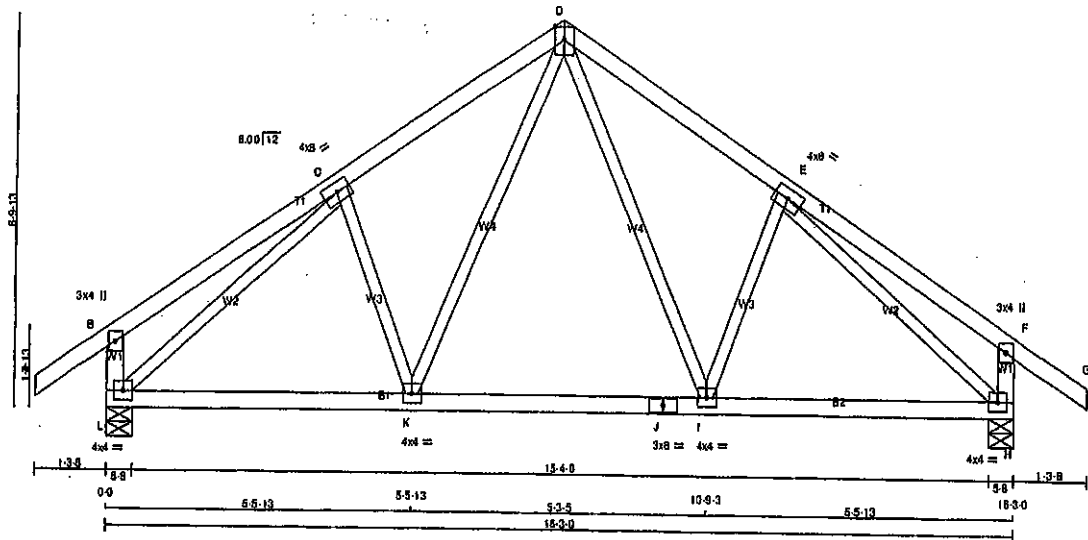
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (D) (INPUT = 0.90)  
 JSI METAL = 0.51 (G) (INPUT = 1.00)



Structural component only  
 DWG# T-2007155

|                                                                           |                   |               |          |                                                                                    |          |
|---------------------------------------------------------------------------|-------------------|---------------|----------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br>408169                                                        | TRUSS NAME<br>T30 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES                                                      | DRWG NO. |
| Tamarack Roof Truss, Burlington                                           |                   |               |          | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:49:38 2020 Page 1 |          |
| ID:K?TPdhgJ0npl1qIYcbWfOFzIdeG-MSRPG?JCYIQQ10xIUEnpQ4FSy8zoKvN7QVwp_zNBDT |                   |               |          | Scale = 1:37.0                                                                     |          |



| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| 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 (tablets in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X    |
|----|--------|--------|-----|-----|---|------|
| B  | TMV-p  | MT20   | 3.0 | 4.0 |   |      |
| C  | TMWW-t | MT20   | 4.0 | 8.0 |   |      |
| D  | TTWW-p | MT20   | 4.0 | 8.0 |   | Edge |
| E  | TMV-p  | MT20   | 4.0 | 8.0 |   |      |
| F  | TMV-p  | MT20   | 3.0 | 4.0 |   |      |
| H  | BMWW-t | MT20   | 4.0 | 4.0 |   |      |
| I  | BMWW-t | MT20   | 4.0 | 4.0 |   |      |
| J  | BS-t   | MT20   | 3.0 | 8.0 |   |      |
| K  | BMWW-t | MT20   | 4.0 | 4.0 |   |      |
| L  | BMWW-t | 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
|    | VERT                    | HORZ                            | DOWN      | HORZ     |
| JT | 1022                    | 0                               | 1022      | 0        |
| L  | 1022                    | 0                               | 1022      | 0        |
| H  | 1022                    | 0                               | 1022      | 0        |

##### UNFACTORED REACTIONS

|    | 1ST CASE | MAX MIN COMPONENT REACTIONS | PERM LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-----------------------------|-----------|-------|---------|-------|
|    | COMBINED | SNOW                        | LIVE      |       |         |       |
| JT | 720      | 488 / 0                     | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |
| L  | 720      | 488 / 0                     | 0 / 0     | 0 / 0 | 234 / 0 | 0 / 0 |
| H  | 720      | 488 / 0                     | 0 / 0     | 0 / 0 | 234 / 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 = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                         | WEBS  |                           |                         |          |
|--------|---------------------------|---------------------------|-------------------------|-------|---------------------------|-------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRAC LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRAC LENGTH (LC) |          |
| FR-TO  |                           |                           |                         | FR-TO |                           |                         |          |
| A-B    | 0 / 35                    | -91.8                     | -91.8 0.12 (1)          | 10.00 | D-I                       | 0 / 338                 | 0.08 (1) |
| B-C    | 0 / 24                    | -91.8                     | -91.8 0.24 (1)          | 10.00 | I-E                       | -217 / 0                | 0.08 (1) |
| C-D    | -845 / 0                  | -91.8                     | -91.8 0.19 (1)          | 6.25  | K-D                       | 0 / 338                 | 0.08 (1) |
| D-E    | -845 / 0                  | -91.8                     | -91.8 0.19 (1)          | 6.25  | C-K                       | -217 / 0                | 0.08 (1) |
| E-F    | 0 / 24                    | -91.8                     | -91.8 0.24 (1)          | 10.00 | L-C                       | -1042 / 0               | 0.52 (1) |
| F-G    | 0 / 35                    | -91.8                     | -91.8 0.12 (1)          | 10.00 | E-H                       | -1042 / 0               | 0.52 (1) |
| L-B    | -288 / 0                  | 0.0                       | 0.0 0.03 (1)            | 7.81  |                           |                         |          |
| H-F    | -288 / 0                  | 0.0                       | 0.0 0.03 (1)            | 7.81  |                           |                         |          |
| L-K    | 0 / 782                   | -18.5                     | -18.5 0.19 (1)          | 10.00 |                           |                         |          |
| K-J    | 0 / 557                   | -18.5                     | -18.5 0.17 (4)          | 10.00 |                           |                         |          |
| J-I    | 0 / 557                   | -18.5                     | -18.5 0.17 (4)          | 10.00 |                           |                         |          |
| I-H    | 0 / 782                   | -18.5                     | -18.5 0.19 (1)          | 10.00 |                           |                         |          |

TOTAL WEIGHT = 2 X 72 = 145 lb (M/F)

#### 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, 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 088-09, CSA 088-14  
- TPK 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/998 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(TL) = L/998 (0.04")

OSI: TC=0.24/1.00 (B-O:1), BC=0.18/1.00 (H-I:1), WB=0.52/1.00 (G-L:1), SS=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

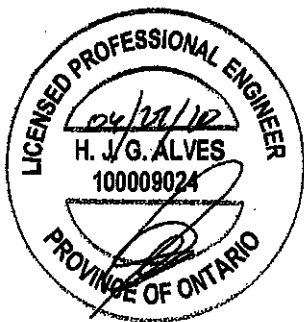
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1687 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

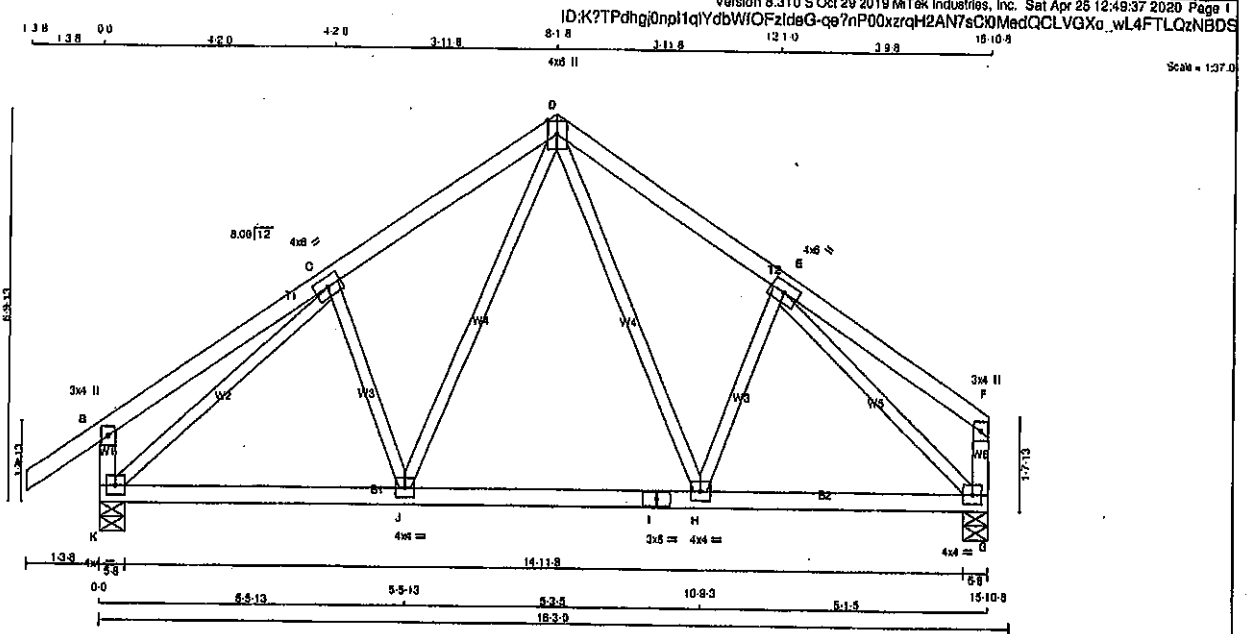
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.80)  
JSI METAL = 0.28 (L) (INPUT = 1.00)



Structural component only  
DWG# T-2007156

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

EXCEPT DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X |
|----|--------|--------|-----|-----|------|---|
| B  | TMV-p  | MT20   | 3.0 | 4.0 |      |   |
| C  | TMWW-I | MT20   | 4.0 | 6.0 |      |   |
| D  | TMWW-p | MT20   | 4.0 | 6.0 | Edge |   |
| E  | TMWW-I | MT20   | 4.0 | 6.0 |      |   |
| F  | TMV-p  | MT20   | 3.0 | 4.0 |      |   |
| G  | BMWW-I | MT20   | 4.0 | 4.0 |      |   |
| H  | BMWW-I | MT20   | 4.0 | 4.0 |      |   |
| I  | BS-I   | MT20   | 3.0 | 6.0 |      |   |
| J  | BMWW-I | MT20   | 4.0 | 4.0 |      |   |
| K  | BMWW-I | 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<br>GROSS REACTION |      |      | MAXIMUM FACTORED<br>GROSS REACTION |      |        | INPUT<br>BRG | REQRD<br>BRG |  |
| JT                         | VERT | HORZ | DOWN                               | HORZ | UPLIFT | IN-SX        | IN-SX        |  |
| K                          | 1001 | 0    | 1001                               | 0    | 0      | 5-8          | 5-8          |  |
| G                          | 875  | 0    | 875                                | 0    | 0      | 5-8          | 5-8          |  |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX     | MIN   | COMPONENT REACTIONS | DEAD  | SOIL    |
|----|----------|---------|-------|---------------------|-------|---------|
| K  | 708      | 478 / 0 | 0 / 0 | PERM. LIVE          | WIND  |         |
| G  | 619      | 408 / 0 | 0 / 0 | 0 / 0               | 0 / 0 | 228 / 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 |                           |                           |                           | WEBS  |                           |                           |                           |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |                           |
| 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                       | -160 / 2                  | 0.05 (1)                  |
| C-D    | -817 / 0                  | -91.8                     | -91.8 0.19 (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                       | -982 / 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 / 591                   | -18.5                     | -18.5 0.17 (1)            | 10.00 |                           |                           |                           |

TOTAL WEIGHT = 2 X 70 = 140 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 = 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 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2015, OBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPO 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) =  $L/360$  (0.53")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.53")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.04")

CSI: TO=0.24/1.00 (B-C:1), BC=0.18/1.00 (J-K:1), WB=0.51/1.00 (K-C:1), SS=0.15/1.00 (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) | (PLI)   |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 618        | 354   | 1867    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)  
JSI METAL= 0.28 (K) (INPUT = 1.00)

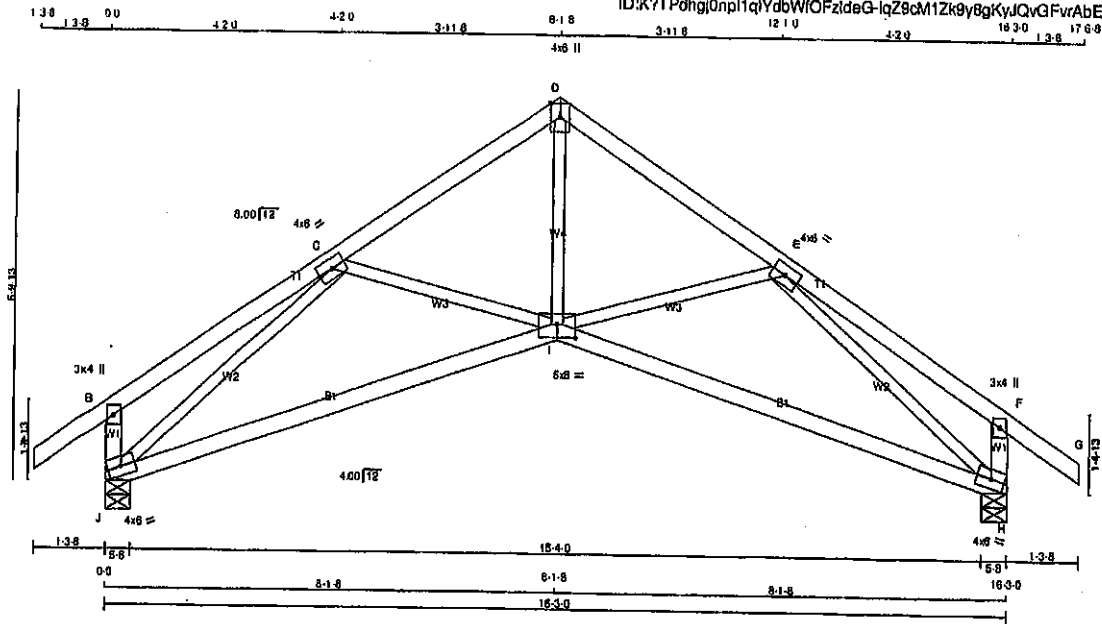


Structural component only  
DWG# T-2007157

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

Tamrack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 26 12:49:36 2020 Page 1  
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Scale = 1/32

| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - D  | 2x4               | DRY    | No.2 | SPF    |        |
| D - G  | 2x4               | DRY    | No.2 | SPF    |        |
| J - B  | 2x4               | DRY    | No.2 | SPF    |        |
| H - F  | 2x4               | DRY    | No.2 | SPF    |        |
| J - I  | 2x4               | DRY    | No.2 | SPF    |        |
| I - H  | 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   | 4.0 | 6.0 |      |      |
| D TMV-p  | MT20   | 4.0 | 6.0 | Edge |      |
| E TMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| F TMV-p  | MT20   | 3.0 | 4.0 |      |      |
| H BMVW-1 | MT20   | 4.0 | 6.0 |      |      |
| I BMVW-p | MT20   | 6.0 | 8.0 | 2.75 | 4.00 |
| J BMVW-1 | MT20   | 4.0 | 6.0 |      |      |

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

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

| BEARINGS |      | FACTORED       |                | MAXIMUM FACTORED |      | INPUT |       | RECORD |     |
|----------|------|----------------|----------------|------------------|------|-------|-------|--------|-----|
| JT       | VERT | GROSS REACTION | GROSS REACTION | DOWN             | HORZ | BRG   | IN-SX | IN-SX  | BRG |
| J        | 1022 | 0              | 1022           | 0                | 0    | 5-8   | 5-8   | 5-8    | 5-8 |
| H        | 1022 | 0              | 1022           | 0                | 0    | 5-8   | 5-8   | 5-8    | 5-8 |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS | SNOW | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
|----|----------|---------|---------------------|------|------|-----------|------|-------|------|
| J  | 720      | 488/0   | 0/0                 | 0/0  | 0/0  | 0/0       | 0/0  | 234/0 | 0/0  |
| H  | 720      | 488/0   | 0/0                 | 0/0  | 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 |             | FACTORED         |                | MAX. FACTORED        |       | WEBS    |             | MAX. FACTORED        |       |
|--------|-------------|------------------|----------------|----------------------|-------|---------|-------------|----------------------|-------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 (LC)       | MAX. UNBRACED LENGTH | FR-TO | MEMB.   | FORCE (LBS) | MAX. UNBRACED LENGTH | FR-TO |
| A-B    | 0/35        | -91.8            | -91.8 0.12 (1) | 10.00                | I-D   | 0/942   | 0.21 (1)    |                      |       |
| B-C    | 0/22        | -91.8            | -91.8 0.22 (1) | 10.00                | I-E   | -143/11 | 0.05 (1)    |                      |       |
| C-D    | -1134/0     | -91.8            | -91.8 0.19 (1) | 6.78                 | C-I   | -143/11 | 0.05 (1)    |                      |       |
| D-E    | -1134/0     | -91.8            | -91.8 0.19 (1) | 5.78                 | J-C   | -1478/0 | 0.78 (1)    |                      |       |
| E-F    | 0/22        | -91.8            | -91.8 0.22 (1) | 10.00                | E-H   | -1478/0 | 0.78 (1)    |                      |       |
| F-G    | 0/35        | -91.8            | -91.8 0.12 (1) | 10.00                |       |         |             |                      |       |
| J-B    | -273/0      | 0.0              | 0.0 0.03 (1)   | 7.81                 |       |         |             |                      |       |
| H-F    | -273/0      | 0.0              | 0.0 0.03 (1)   | 7.81                 |       |         |             |                      |       |
| J-I    | 0/1120      | -18.5            | -18.5 0.44 (4) | 10.00                |       |         |             |                      |       |
| I-H    | 0/1120      | -18.5            | -18.5 0.44 (4) | 10.00                |       |         |             |                      |       |

TOTAL WEIGHT = 2 X 67 = 133 lb (MIP)

#### 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

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 (0.54")  
CALCULATED VERT. DEFL. (LL) = L/599 (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), SC=0.44/1.00 (H-I:4),  
WB=0.78/1.00 (C-J:1), SS=0.15/1.00 (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) |
|-------|------------|-------------|---------------|
| MT20  | 618        | 354         | 1687          |

PLATE PLACEMENT TOL. = 0.250 inches

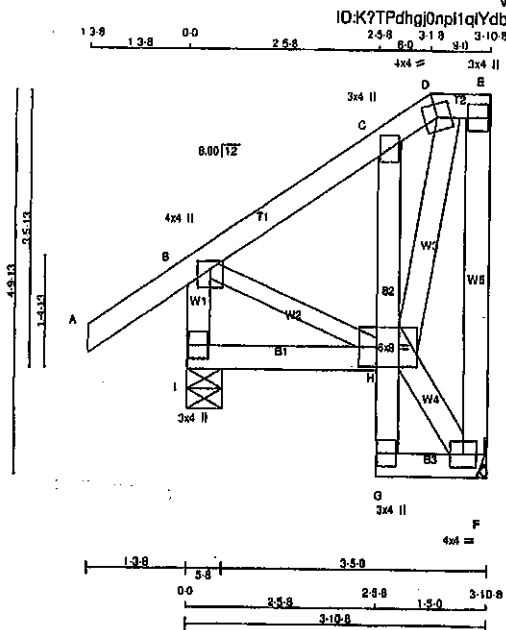
PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only  
DWG# T-2007158

|                                 |                    |               |          |                               |          |
|---------------------------------|--------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408169              | TRUSS NAME<br>T31S | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                    |               |          |                               |          |



Scale = 1/2" = 1'-0"

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N.L.G.A. RULES        | CHORDS | SIZE | LUMBER |
| 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 EXCEPT B - H | 2x3    | DRY  | No.2   |

DRY: SEASONED LUMBER.

| PLATES (table in inches) |         |        |     |     |           |
|--------------------------|---------|--------|-----|-----|-----------|
| JT                       | TYPE    | PLATES | W   | LEN | Y X       |
| B                        | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 2.00 |
| C                        | TMV+p   | MT20   | 3.0 | 4.0 |           |
| D                        | TTW+m   | MT20   | 4.0 | 4.0 |           |
| E                        | TMV+p   | MT20   | 3.0 | 4.0 |           |
| F                        | BMVW1-1 | MT20   | 4.0 | 4.0 |           |
| G                        | BMV+p   | MT20   | 3.0 | 4.0 |           |
| H                        | BMVW1-1 | 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

| FACTORED |                | MAXIMUM FACTORED |                | INPUT |     | REQD       |     |
|----------|----------------|------------------|----------------|-------|-----|------------|-----|
| JT       | GROSS REACTION | JT               | GROSS REACTION | BRG   | BRG | BRG        | BRG |
| F        | 193            | 0                | 193            | 0     | 0   | MECHANICAL | 5-8 |
| I        | 381            | 0                | 381            | 0     | 0   | 5-8        | 5-8 |

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

| UNFACTORED REACTIONS |          | 1ST LCASE |          | MAX/MIN. COMPONENT REACTIONS |          |
|----------------------|----------|-----------|----------|------------------------------|----------|
| JT                   | COMBINED | JT        | COMBINED | JT                           | COMBINED |
| F                    | 138      | 88/0      | 0/0      | PERM. LIVE                   | WIND     |
| I                    | 262      | 181/0     | 0/0      | 0/0                          | 49/0     |
|                      |          |           |          | 0/0                          | 72/0     |

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 |                           |                           |                | WEB S |                           |          |  |
|--------|---------------------------|---------------------------|----------------|-------|---------------------------|----------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC)   | MEMB. | MAX. FACTORED FORCE (LBS) | MAX (LC) |  |
| FR-TO  |                           | FROM TO                   |                | FR-TO |                           |          |  |
| A-B    | 0/35                      | -91.8                     | -91.8 0.14 (5) | 10.00 | H-F                       | -27/0    |  |
| B-C    | -87/0                     | -91.8                     | -91.8 0.09 (1) | 8.25  | B-H                       | 0/68     |  |
| C-D    | -99/0                     | -91.8                     | -91.8 0.07 (1) | 8.25  | H-D                       | 0/173    |  |
| 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

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 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 |      |
|-------------|------|------------------|------|-------|------|---------|------|
| (PS)        | (PL) | (PS)             | (PL) | (PS)  | (PL) | (PS)    | (PL) |
| MAX         | MIN  | MAX              | MIN  | MAX   | MIN  | MAX     | MIN  |
| MT20        | 618  | 354              | 1687 | 788   | 1987 | 1686    |      |

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only  
DWG# T-2007159



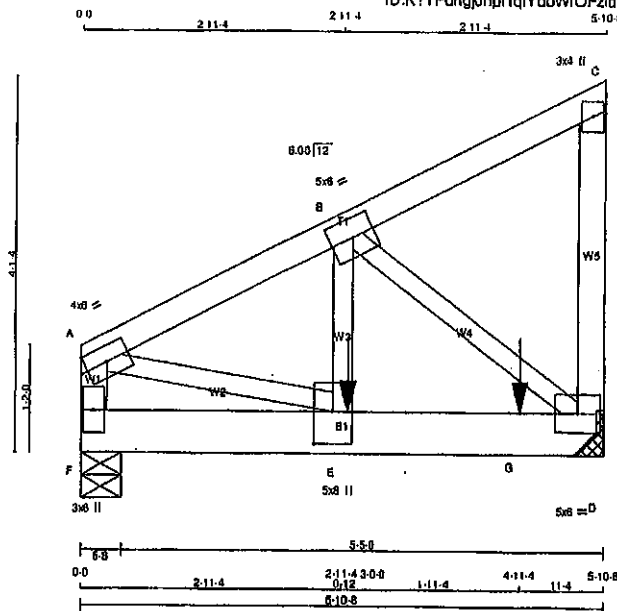


| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|----------|------------|----------|-----|------------------|----------|
| 408169   | T33        | 1        | 2   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

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Scale = 1/20



| LUMBER | N. L. G. A. RULES | 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  | 2x8               | DRY    | No.2 | SPF |        |        |

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 1 12                                |                      | TOP         |
| A-C 1 12                                |                      | TOP         |
| C-D 1 12                                |                      | TOP         |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |             |
| F-D 2 9                                 |                      | SIDE(305.2) |
| WEBS: (0.122"x3") SPIRAL NAILS          |                      |             |
| B-E 1 2                                 |                      | SIDE(408.8) |
| 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 TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

| PLATES (table in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|--------------------------|---------|--------|-----|-----|------|------|
| A                        | TMVW-t  | MT20   | 4.0 | 8.0 |      | Edge |
| B                        | TMVW-t  | MT20   | 5.0 | 8.0 |      |      |
| C                        | TMVW-t  | MT20   | 3.0 | 4.0 |      |      |
| D                        | BMVW-t  | MT20   | 5.0 | 8.0 |      |      |
| E                        | BMVW-t  | 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 | REQD       |
|----------|----------------|------------------|-------|------------|
| JT       | GROSS REACTION | GROSS REACTION   | BRG   | BRG        |
| F        | VERT           | DOWN             | IN-SX | IN-SX      |
| D        | 2859           | 0                | 0     | MECHANICAL |

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 | PERM  | LIVE  | WIND  | DEAD    | SOIL  |
|----|----------|----------|---------------------|-------|-------|-------|---------|-------|
| F  | 1348     | 915 / 0  | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0 | 434 / 0 | 0 / 0 |
| D  | 2015     | 1359 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 0 / 0 | 657 / 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 | MEMB.     | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1      | MAX   | CS1 (LC) | UNBRACED LENGTH | FR-TO    | MEMB. | MAX. FACTORED FORCE (LBS) | MAX | CS1 (LC) |
|--------|-----------|---------------------------|------------------|----------|-------|----------|-----------------|----------|-------|---------------------------|-----|----------|
| F-A    | -1877 / 0 | 0.0                       | 0.0              | 0.10 (1) | 7.81  | A-E      | 0 / 2380        | 0.29 (1) |       |                           |     |          |
| A-B    | -2566 / 0 | -91.8                     | -91.8            | 0.08 (1) | 5.59  | E-B      | 0 / 2608        | 0.32 (1) |       |                           |     |          |
| B-C    | -7 / 0    | -91.8                     | -91.8            | 0.08 (1) | 10.00 | D-D      | -2898 / 0       | 0.35 (1) |       |                           |     |          |
| D-C    | -120 / 0  | 0.0                       | 0.0              | 0.01 (1) | 7.81  |          |                 |          |       |                           |     |          |
| F-E    | 0 / 0     | -18.5                     | -18.5            | 0.01 (1) | 10.00 |          |                 |          |       |                           |     |          |
| E-G    | 0 / 2301  | -18.5                     | -18.5            | 0.49 (1) | 10.00 |          |                 |          |       |                           |     |          |
| G-D    | 0 / 2301  | -18.5                     | -18.5            | 0.49 (1) | 10.00 |          |                 |          |       |                           |     |          |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.     | LC1   | MAX   | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|----------|-------|-------|------|------|------|-------|------|-------|
| E  | 3'-0"    | -2737 | -2737 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| G  | 4'-11.4" | -1388 | -1388 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 25.6 | PSF |
| BOT CH.    | LL | = | 8.0  | PSF |
|            | DL | = | 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 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

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/889 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.10/1.00 (A-F:1), BC=0.49/1.00 (D-E:1),  
WB=0.35/1.00 (B-D:1), SS=0.39/1.00 (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

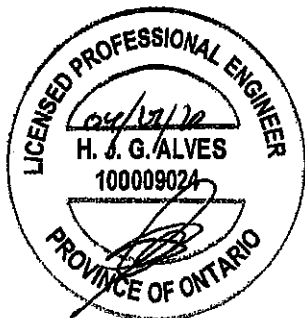
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

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

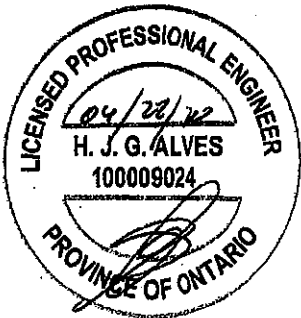
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|                                                                           |                   |               |          |                                                                                     |          |
|---------------------------------------------------------------------------|-------------------|---------------|----------|-------------------------------------------------------------------------------------|----------|
| 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                                           |                   |               |          | Version 8.310 5 Oct 29 2019 Mittek Industries, Inc. Sat Apr 26 12:49:41 2020 Page 2 |          |
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PLATES (table in inches)

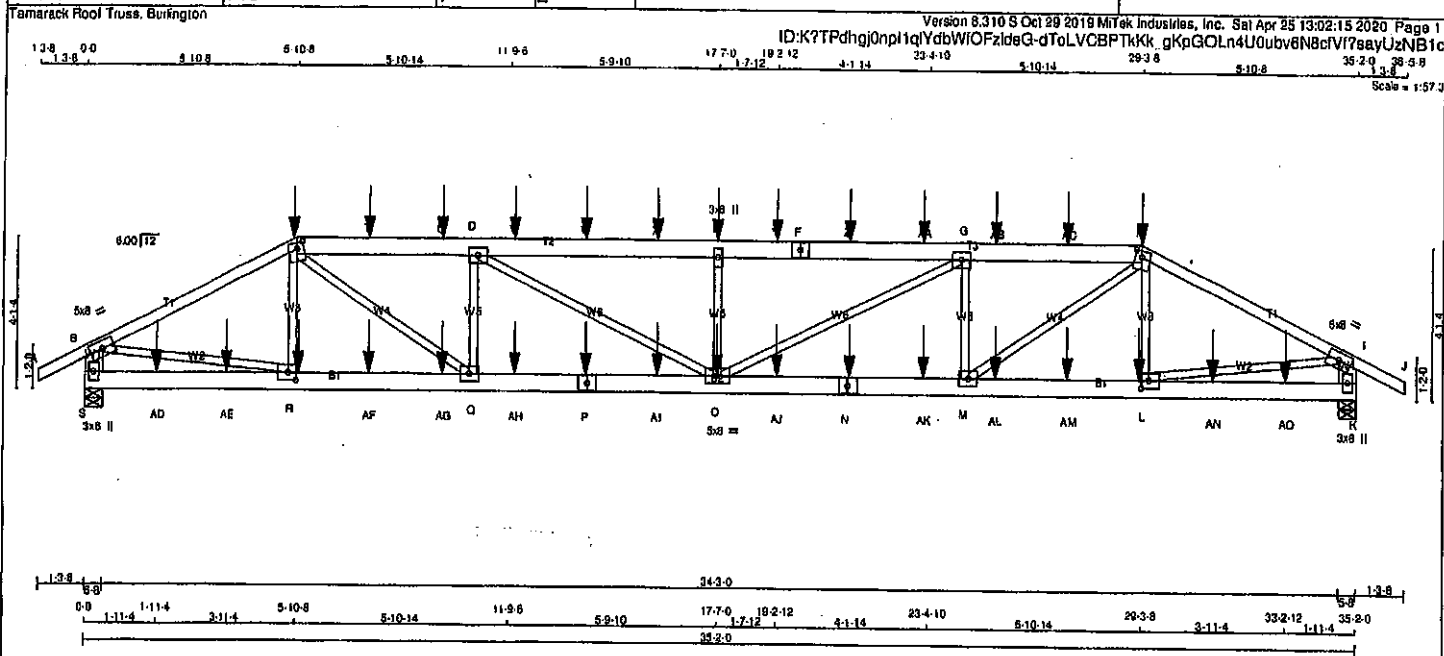
| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| F       | BMV1+p | MT20 | 3.0 | 6.0 |   |

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



Structural component only  
DWG# T-2007161 42

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



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

DRY: SEASONED LUMBER.

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

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

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A-C 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.

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                |      |                  |      |       |       |       |
|-----------------------------------------------------------------------------------------------|----------------|------|------------------|------|-------|-------|-------|
| BEARINGS                                                                                      |                |      |                  |      |       |       |       |
| FACTORED                                                                                      | GROSS REACTION |      | MAXIMUM FACTORED |      | INPUT | REQD  |       |
|                                                                                               | VERT           | HORZ | DOWN             | HORZ | BRG   | IN-SX | IN-SX |
| JT                                                                                            | 3331           | 0    | 3331             | 0    | 5-8   | 5-8   | 5-8   |
| S                                                                                             | 3331           | 0    | 3331             | 0    | 5-8   | 5-8   | 5-8   |
| K                                                                                             | 3331           | 0    | 3331             | 0    | 5-8   | 5-8   | 5-8   |

| UNFACTORED REACTIONS |                               |          |       |            |       |         |       |
|----------------------|-------------------------------|----------|-------|------------|-------|---------|-------|
| 1ST CASE             | MAX. MIN. COMPONENT REACTIONS |          |       |            |       |         |       |
|                      | COMBINED                      | SNOW     | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| JT                   | 2358                          | 1544 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 612 / 0 | 0 / 0 |
| S                    | 2358                          | 1544 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 612 / 0 | 0 / 0 |
| K                    | 2358                          | 1544 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 612 / 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.   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED CSI (LC) | MEMB.                 | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO   |                           | FROM TO                   |                        | FR-TO                 |                           |                        |  |
| A-B     | 0 / 28                    | -91.8 -91.8 0.07 (1)      | 10.00                  | R-C                   | -449 / 0                  | 0.08 (1)               |  |
| B-C     | -5089 / 0                 | -91.8 -91.8 0.52 (1)      | 3.87                   | C-Q                   | 0 / 3021                  | 0.37 (1)               |  |
| C-T     | -6976 / 0                 | -91.8 -91.8 0.24 (1)      | 4.35                   | Q-D                   | -1608 / 0                 | 0.19 (1)               |  |
| T-U     | -6976 / 0                 | -91.8 -91.8 0.24 (1)      | 4.35                   | D-O                   | 0 / 1339                  | 0.17 (1)               |  |
| U-D     | -6976 / 0                 | -91.8 -91.8 0.24 (1)      | 4.35                   | O-G                   | -1056 / 0                 | 0.13 (1)               |  |
| D-V     | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   | G-E                   | 0 / 1339                  | 0.17 (1)               |  |
| V-W     | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   | E-H                   | -1608 / 0                 | 0.19 (1)               |  |
| W-X     | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   | H-M                   | 0 / 3021                  | 0.37 (1)               |  |
| X-E     | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   | M-H                   | -449 / 0                  | 0.06 (1)               |  |
| E-Y     | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   | H-B                   | 0 / 4585                  | 0.57 (1)               |  |
| Y-F     | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   | B-R                   | 0 / 4585                  | 0.57 (1)               |  |
| F-Z     | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   | L-I                   | 0 / 4585                  | 0.57 (1)               |  |
| Z-AA    | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   |                       |                           |                        |  |
| AA-G    | -8155 / 0                 | -91.8 -91.8 0.31 (1)      | 4.02                   |                       |                           |                        |  |
| G-AB    | -6976 / 0                 | -91.8 -91.8 0.24 (1)      | 4.35                   |                       |                           |                        |  |
| AB-AC   | -6976 / 0                 | -91.8 -91.8 0.24 (1)      | 4.35                   |                       |                           |                        |  |
| AC-H    | -6976 / 0                 | -91.8 -91.8 0.24 (1)      | 4.35                   |                       |                           |                        |  |
| H-I     | -5089 / 0                 | -91.8 -91.8 0.52 (1)      | 3.87                   |                       |                           |                        |  |
| I-J     | 0 / 28                    | -91.8 -91.8 0.07 (1)      | 10.00                  |                       |                           |                        |  |
| S-B     | -3250 / 0                 | 0.0 0.0 0.11 (1)          | 7.69                   |                       |                           |                        |  |
| K-I     | -3250 / 0                 | 0.0 0.0 0.11 (1)          | 7.69                   |                       |                           |                        |  |

|       |          |                      |       |
|-------|----------|----------------------|-------|
| S-AD  | 0 / 0    | -18.5 -18.5 0.07 (4) | 10.00 |
| AD-AE | 0 / 0    | -18.5 -18.5 0.07 (4) | 10.00 |
| AE-R  | 0 / 0    | -18.5 -18.5 0.07 (4) | 10.00 |
| R-AF  | 0 / 4557 | -18.5 -18.5 0.33 (1) | 10.00 |
| AF-AG | 0 / 4557 | -18.5 -18.5 0.33 (1) | 10.00 |
| AG-Q  | 0 / 4557 | -18.5 -18.5 0.33 (1) | 10.00 |
| Q-AH  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| AH-P  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| P-AI  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| AI-O  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| O-AJ  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| AJ-N  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| N-AK  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| AK-M  | 0 / 6976 | -18.5 -18.5 0.52 (1) | 10.00 |
| M-AL  | 0 / 4557 | -18.5 -18.5 0.33 (1) | 10.00 |
| AL-AM | 0 / 4557 | -18.5 -18.5 0.33 (1) | 10.00 |
| AM-L  | 0 / 4557 | -18.5 -18.5 0.33 (1) | 10.00 |
| L-AN  | 0 / 0    | -18.5 -18.5 0.07 (4) | 10.00 |
| AN-AO | 0 / 0    | -18.5 -18.5 0.07 (4) | 10.00 |
| AO-K  | 0 / 0    | -18.5 -18.5 0.07 (4) | 10.00 |

TOTAL WEIGHT = 2 X 169 = 338 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 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 086-09, CSA 086-14
- TPIQ 2011, TPIQ 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) = 1/899 (0.21")

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

CALCULATED VERT. DEFL.(TL) = 1/899 (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), SSI=0.16/1.00 (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     | 354     | 1667 798 1987 1686 |

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL=0.87 (P) (INPUT = 1.00)



Structural component only

DWG# T-2007168 1/2

| 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 (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-1 | MT20   | 5.0 | 8.0 |      |      |
| C  | TTWW+m | MT20   | 5.0 | 8.0 | 2.00 | 2.25 |
| D  | TMWW-1 | MT20   | 5.0 | 8.0 |      |      |
| E  | TMW+u  | MT20   | 3.0 | 8.0 |      |      |
| F  | TS-1   | MT20   | 5.0 | 8.0 |      |      |
| G  | TMWW-1 | MT20   | 5.0 | 8.0 |      |      |
| H  | TTWW+m | MT20   | 5.0 | 8.0 | 2.00 | 2.25 |
| I  | TMVW-1 | MT20   | 5.0 | 8.0 |      |      |
| K  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |
| L  | BMWW-1 | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| M  | BMWW-1 | MT20   | 5.0 | 8.0 |      |      |
| N  | BS-1   | MT20   | 5.0 | 8.0 |      |      |
| O  | BMWW-1 | MT20   | 5.0 | 8.0 |      |      |
| P  | BS-1   | MT20   | 5.0 | 8.0 |      |      |
| Q  | BMWW-1 | MT20   | 5.0 | 8.0 |      |      |
| R  | BMWW-1 | 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  | 28-3-8  | -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  | -25  | -25  | ---  | 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 | -25  | -25  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

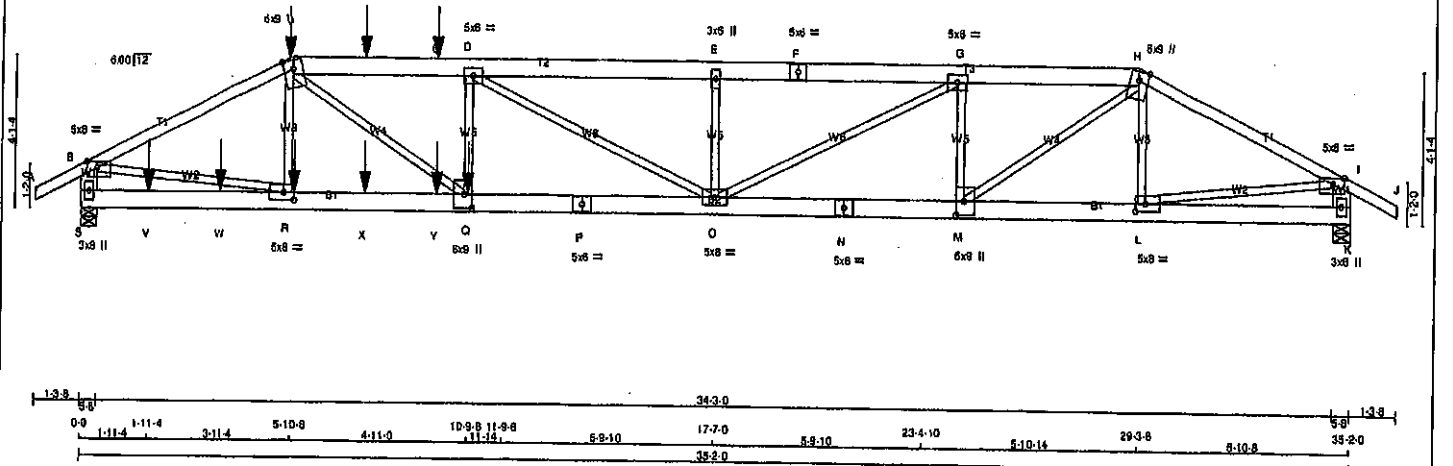
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only  
DWG# T-2007168

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|---------------------------------|------------|----------|-----|------------------|----------|
| 408170                          | T40Z       | 1        | 2   | GREEN PARK HOMES |          |
| Famaraok Roof Truss, Burlington |            |          |     |                  |          |

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 ID:K?TPdnhq[0npl1q]YdbWfOfZideG-anw5vuDf\_MaSDzUBNpNF9v6Bulk?cSGo6JLh0NzNB1a  
 1.3.3 0.0 5-10.8 5-10.8 7-11.4 2.0-12 2.0-12 1-10.2 9-11.4 11-9.8 5-9-10 17-7.0 5-9-10 33-4-10 5-10-14 29-3-9 5-10-8 35-2-0 35-5-8  
 Scale = 1:57.3



| LUMBER   | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|----------|-------------------|--------|------|--------|--------|
| A - C    | 2x4               | DRY    | No.2 | SPF    |        |
| C - F    | 2x6               | DRY    | No.2 | SPF    |        |
| F - H    | 2x6               | DRY    | No.2 | SPF    |        |
| H - J    | 2x4               | DRY    | No.2 | SPF    |        |
| S - B    | 2x6               | DRY    | No.2 | SPF    |        |
| K - I    | 2x6               | DRY    | No.2 | SPF    |        |
| S - P    | 2x6               | DRY    | No.2 | SPF    |        |
| P - N    | 2x6               | DRY    | No.2 | SPF    |        |
| N - K    | 2x6               | DRY    | No.2 | SPF    |        |
| ALL WEBS | 2x3               | DRY    | No.2 | SPF    |        |
| EXCEPT   |                   |        |      |        |        |

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)  |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A-C 1 12                                 |                      | SIDE(61.0)  |
| H-J 1 12                                 |                      | TOP         |
| C-F 2 12                                 |                      | SIDE(61.0)  |
| F-H 2 12                                 |                      | TOP         |
| 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                                 |                      | TOP         |
| N-K 2 12                                 |                      | TOP         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1 6                                  |                      | SIDE(625.1) |
| D-Q 1 3                                  |                      |             |
| G-M 1 3                                  |                      |             |

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.

#### 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                    | DOWN                            | BRG    | BRG    |
| S        | HORZ                    | HORZ                            | UPLIFT | UPLIFT |
| K        |                         |                                 |        |        |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN COMPONENT REACTIONS |
|----------------------|-----------|-----------------------------|
| JT                   | COMBINED  | SNOW                        |
| S                    | 3238      | 2151 / 0                    |
| K                    | 2151      | 1438 / 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 = 3.15 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 FORCE (LBS) | MAX. FACTORED FORCE (LBS)  |
| VERT. LOAD LC1            | MAX. UNBRACED LENGTH FR-TO |
| CSI (LC)                  | FR-TO                      |
| FROM TO                   |                            |
| A-B                       | 0 / 28                     |
| B-C                       | -7293 / 0                  |
| C-D                       | -10549 / 0                 |
| D-E                       | -10549 / 0                 |
| E-F                       | -9485 / 0                  |
| F-G                       | -9485 / 0                  |
| G-H                       | -6958 / 0                  |
| H-I                       | -4808 / 0                  |
| I-J                       | 0 / 28                     |
| J-K                       | -4503 / 0                  |
| K-L                       | -2890 / 0                  |
| S-V                       | 0 / 0                      |
| V-W                       | 0 / 0                      |
| W-R                       | 0 / 0                      |
| R-X                       | 0 / 8557                   |
| X-Y                       | 0 / 8557                   |
| Y-Q                       | 0 / 8557                   |
| Q-P                       | 0 / 10548                  |
| P-O                       | 0 / 10548                  |
| O-N                       | 0 / 8965                   |
| N-M                       | 0 / 8965                   |
| M-L                       | 0 / 4144                   |
| L-K                       | 0 / 0                      |

| FACTORED CONCENTRATED LOADS (LBS) | LOC.   | LC1   | MAX.  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|-----------------------------------|--------|-------|-------|------|------|------|-------|------|-------|
| JT                                | 5-10-8 | -437  | -437  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| C                                 | 10-9-8 | -2715 | -2715 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| D                                 | 5-11-4 | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| T                                 | 7-11-4 | -110  | -110  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| U                                 | 9-11-4 | -110  | -110  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| V                                 | 1-11-4 | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| W                                 | 3-11-4 | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| X                                 | 7-11-4 | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Y                                 | 9-11-4 | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |

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

TOTAL WEIGHT = 2 X 169 = 338 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 6.00/12

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2015, 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 (0.26)  
 ALLOWABLE DEFL.(TL) = L/360 (1.17)  
 CALCULATED VERT. DEFL.(TL) = L/881 (0.48)

CSI: TC=0.72/1.00 (B-C:1), BC=0.77/1.00 (C-Q:1), WB=0.82/1.00 (B-R:1), SS=0.13/1.00 (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

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) (FLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1667 788 1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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



Structural component only  
 DWG# T-2007169

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | T40Z       | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

Version 8.310 S Oct 29 2018 Mitek Industries, Inc. Sat Apr 25 13:02:17 2020 Page 2  
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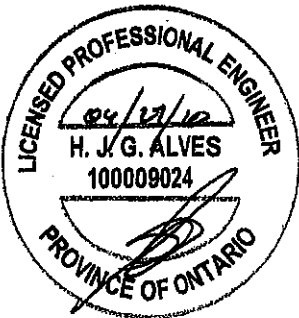
PLATES (table is in inches)

| 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 | 8.0 |      |      |
| H  | TTWW+m  | MT20   | 6.0 | 9.0 | Edge |      |
| I  | TMVW-p  | MT20   | 5.0 | 8.0 | 2.00 | 3.50 |
| K  | BMVl+p  | MT20   | 3.0 | 6.0 |      |      |
| L  | BMWW-l  | MT20   | 5.0 | 8.0 | 2.50 | 3.25 |
| M  | BMWW+l  | MT20   | 6.0 | 9.0 | 4.50 | 2.50 |
| N  | SS-l    | MT20   | 5.0 | 6.0 |      |      |
| O  | BMWWW-l | MT20   | 5.0 | 8.0 |      |      |
| P  | BS-l    | MT20   | 5.0 | 6.0 |      |      |
| Q  | BMWW+l  | MT20   | 6.0 | 9.0 | 4.50 | 2.50 |
| R  | BMWW-l  | MT20   | 6.0 | 8.0 | 2.50 | 3.25 |
| S  | BMVl+p  | MT20   | 3.0 | 6.0 |      |      |

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

CONNECTION REQUIREMENTS

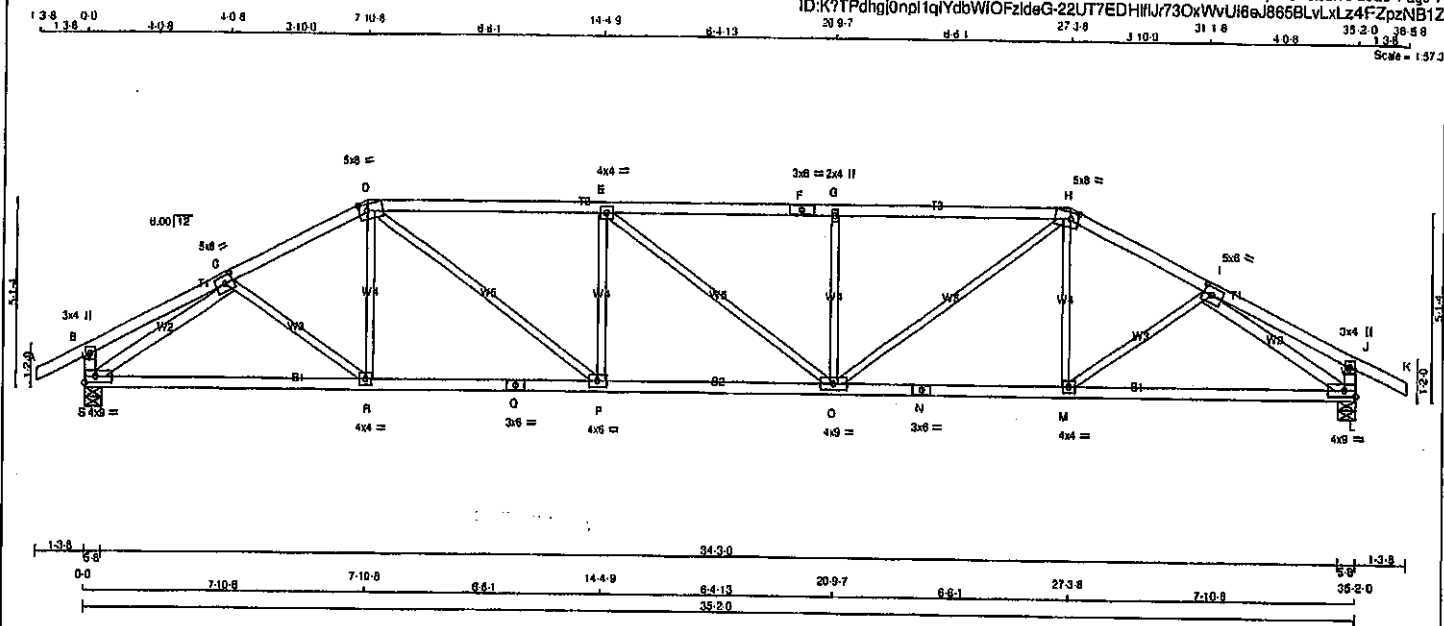
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only  
DWG# T-2007168

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408170</b>       | TRUSS NAME<br><b>T41</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 S Oct 29 2019 MITK Industries, Inc. Sat Apr 25 13:02:18 2020 Page 1  
ID:K7TPdhgJ0npl1qYdbWIOFzIdG-22UT7EDHINJ73OxWwU8aJ8668LvLxLz4FZpzNB1Z  
Scale = 1/37.3



| 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   |
| 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 (tablets in inches) |        |     |       |           |
|----------------------------|--------|-----|-------|-----------|
| JT TYPE                    | PLATES | W   | LEN Y | X         |
| B TMV-p                    | MT20   | 3.0 | 4.0   |           |
| O TMWW-1                   | MT20   | 5.0 | 8.0   | 2.50 2.75 |
| D TTWW-m                   | MT20   | 5.0 | 8.0   | 2.25 2.75 |
| E TMWW-1                   | MT20   | 4.0 | 4.0   |           |
| F TS-1                     | MT20   | 3.0 | 8.0   |           |
| G TMWW-m                   | MT20   | 2.0 | 4.0   |           |
| H TTWW-m                   | MT20   | 5.0 | 8.0   | 2.25 2.75 |
| I TMWW-1                   | MT20   | 5.0 | 8.0   | 2.50 2.75 |
| J TMV-p                    | MT20   | 3.0 | 4.0   |           |
| L BMWW-1                   | MT20   | 4.0 | 9.0   | Edge      |
| M BMWW-1                   | MT20   | 4.0 | 4.0   |           |
| N BS-1                     | MT20   | 3.0 | 8.0   |           |
| O BMWW-1                   | MT20   | 4.0 | 9.0   |           |
| P BMWW-1                   | MT20   | 4.0 | 8.0   |           |
| Q BS-1                     | MT20   | 3.0 | 8.0   |           |
| R BMWW-1                   | MT20   | 4.0 | 4.0   |           |
| S BMWW-1                   | 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

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT |        | REQD  |       |
|----------------|------|------------------|------|-------|--------|-------|-------|
| GROSS REACTION |      | GROSS REACTION   |      | BRG   |        | BRG   |       |
| JT             | VERT | HORZ             | DOWN | HORZ  | UPLIFT | IN-SX | IN-SX |
| S              | 2063 | 0                | 2063 | 0     | 0      | 5-8   | 5-8   |
| L              | 2063 | 0                | 2063 | 0     | 0      | 5-8   | 5-8   |

| UNFACTORED REACTIONS |          | 1ST LOOSE |       | 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 = 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 |             | FACTORED   |         | WEBS     |             | FACTORED |           |
|--------|-------------|------------|---------|----------|-------------|----------|-----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX | MEMB.    | FORCE (LBS) | MAX      | LC1 (LBS) |
| FR-TO  |             | FROM       | TO      | FR-TO    |             | FROM     | TO        |
| A-B    | 0 / 28      | -91.8      | -91.8   | 0.12 (1) | 10.00       | C-R      | 0 / 93    |
| B-C    | 0 / 18      | -91.8      | -91.8   | 0.20 (1) | 10.00       | R-D      | 0 / 121   |
| C-D    | -2799 / 0   | -91.8      | -91.8   | 0.32 (1) | 3.88        | D-P      | 0 / 1287  |
| D-E    | -3507 / 0   | -91.8      | -91.8   | 0.95 (1) | 2.94        | P-E      | -843 / 0  |
| E-F    | -3507 / 0   | -91.8      | -91.8   | 0.93 (1) | 2.94        | E-O      | -2 / 0    |
| F-G    | -3507 / 0   | -91.8      | -91.8   | 0.93 (1) | 2.94        | O-G      | -843 / 0  |
| G-H    | -3507 / 0   | -91.8      | -91.8   | 0.94 (1) | 2.95        | O-H      | 0 / 1288  |
| H-I    | -2799 / 0   | -91.8      | -91.8   | 0.32 (1) | 3.88        | M-H      | 0 / 121   |
| I-J    | 0 / 18      | -91.8      | -91.8   | 0.20 (1) | 10.00       | M-I      | 0 / 93    |
| J-K    | 0 / 28      | -91.8      | -91.8   | 0.12 (1) | 10.00       | S-C      | -2974 / 0 |
| S-B    | -270 / 0    | 0.0        | 0.0     | 0.03 (1) | 7.61        | I-L      | -2974 / 0 |
| L-J    | -270 / 0    | 0.0        | 0.0     | 0.03 (1) | 7.61        |          |           |
| S-R    | 0 / 2417    | -18.5      | -18.5   | 0.53 (1) | 10.00       |          |           |
| R-Q    | 0 / 2469    | -18.5      | -18.5   | 0.54 (1) | 10.00       |          |           |
| Q-P    | 0 / 2469    | -18.5      | -18.5   | 0.54 (1) | 10.00       |          |           |
| P-O    | 0 / 3509    | -18.5      | -18.5   | 0.84 (1) | 10.00       |          |           |
| O-N    | 0 / 2469    | -18.5      | -18.5   | 0.54 (1) | 10.00       |          |           |
| N-M    | 0 / 2469    | -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 = 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 NBC 2010, CBC 2012, ABC 2019  
- PART 9 OF NBC 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/989 (0.21")  
ALLOWABLE DEFL. (TL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (TL) = L/889 (0.41")

CSI: TC=0.95/1.00 (D-E:1), BC=0.84/1.00 (O-P:1), WB=0.83/1.00 (I-L: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

AUTOSOLVE HEELS OFF

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

| NAIL VALUES      |             |               |               |
|------------------|-------------|---------------|---------------|
| PLATE GRIP (DRY) | SHEAR (PSI) | SECTION (PLI) | SECTION (PLI) |
| MAX MIN          | MAX MIN     | MAX MIN       | MAX MIN       |
| MT20             | 818 354     | 1687 788      | 1987 1656     |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (L) (INPUT = 0.80)

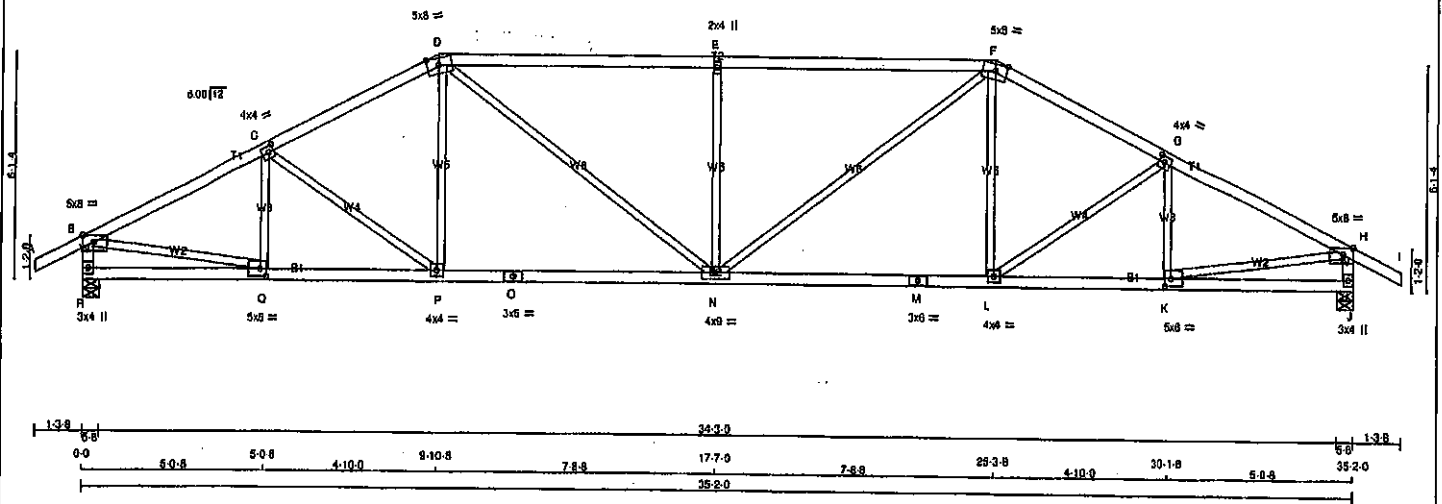
JSI METAL = 0.77 (N) (INPUT = 1.00)



Structural component only  
DWG# T-2007170



|                                                                        |                   |               |          |                                                                                    |          |
|------------------------------------------------------------------------|-------------------|---------------|----------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br>408170                                                     | TRUSS NAME<br>T42 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES                                                      | DRWG NO. |
| Tamarack Roof Truss, Burlington                                        |                   |               |          | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 26 13:02:19 2020 Page 1 |          |
| ID:K7TPdhgJOnp1qYdbWOFzIdaG-WE2rKaEWzr9THdaVEQJEKBSUWUW4PP4adqo5FzNB1Y |                   |               |          | Scale = 1:57.0                                                                     |          |



| 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   |
| R - 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              | 2x3    | DRY  | No.2   |
| EXCEPT                |        |      |        |
| DRY: SEASONED LUMBER. |        |      |        |

| PLATES (table is in inches) |        |        |     |               |
|-----------------------------|--------|--------|-----|---------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X       |
| B                           | TMVW-p | MT20   | 5.0 | 8.0 Edge 3.50 |
| C                           | TMVW-i | MT20   | 4.0 | 4.0 2.00 1.75 |
| D                           | TTVW-m | MT20   | 5.0 | 8.0 2.25 3.75 |
| E                           | TMVW-w | MT20   | 2.0 | 4.0           |
| F                           | TTVW-m | MT20   | 6.0 | 8.0 2.25 3.75 |
| G                           | TMVW-i | MT20   | 4.0 | 4.0 2.00 1.75 |
| H                           | TMVW-p | MT20   | 6.0 | 8.0 Edge 3.50 |
| J                           | BMV1-p | MT20   | 3.0 | 4.0           |
| K                           | BMVW-i | MT20   | 5.0 | 6.0 2.50 2.00 |
| 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 2.00 |
| 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 |       |
|----------|------|----------------|------|------------------|------|-------|-------|------|-------|
| JT       | VERT | GROSS REACTION | DOWN | GROSS REACTION   | DOWN | BRG   | IN-SX | BRG  | IN-SX |
| R        | 2063 | 0              | 2063 | 0                | 0    | 5-8   | 5-8   | 5-8  | 5-8   |
| J        | 2063 | 0              | 2063 | 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    |
| R                    | 1457     | 888 / 0  | 0 / 0 | 0 / 0                       | 488 / 0 |
| J                    | 1457     | 888 / 0  | 0 / 0 | 0 / 0                       | 488 / 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 |                           | FACTORED   |                | WEBS  |                           |
|--------|---------------------------|------------|----------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD | MAX. CSI (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |            |                | FR-TO |                           |
| A-B    | 0 / 28                    | -91.8      | -91.8 0.12 (1) | Q-C   | -353 / 0                  |
| B-C    | -2834 / 0                 | -91.8      | -91.8 0.39 (1) | C-P   | -210 / 0                  |
| C-D    | -2887 / 0                 | -91.8      | -91.8 0.37 (1) | P-D   | 0 / 246                   |
| D-E    | -3080 / 0                 | -91.8      | -91.8 0.97 (1) | D-N   | 0 / 844                   |
| E-F    | -3060 / 0                 | -91.8      | -91.8 0.97 (1) | N-E   | -872 / 0                  |
| F-G    | -2887 / 0                 | -91.8      | -91.8 0.37 (1) | N-F   | 0 / 844                   |
| G-H    | -2834 / 0                 | -91.8      | -91.8 0.39 (1) | L-F   | 0 / 246                   |
| H-I    | 0 / 28                    | -91.8      | -91.8 0.12 (1) | L-G   | -210 / 0                  |
| R-B    | -2018 / 0                 | 0.0        | 0.0 0.20 (1)   | K-G   | -353 / 0                  |
| J-H    | -2018 / 0                 | 0.0        | 0.0 0.20 (1)   | B-Q   | 0 / 2591                  |
| R-Q    | 0 / 0                     | -18.5      | -18.5 0.10 (4) | K-H   | 0 / 2591                  |
| Q-P    | 0 / 2555                  | -18.5      | -18.5 0.51 (1) |       |                           |
| P-O    | 0 / 2388                  | -18.5      | -18.5 0.49 (1) |       |                           |
| O-N    | 0 / 2388                  | -18.5      | -18.5 0.49 (1) |       |                           |
| N-M    | 0 / 2388                  | -18.5      | -18.5 0.49 (1) |       |                           |
| M-L    | 0 / 2388                  | -18.5      | -18.5 0.49 (1) |       |                           |
| L-K    | 0 / 2555                  | -18.5      | -18.5 0.51 (1) |       |                           |
| K-J    | 0 / 0                     | -18.5      | -18.5 0.10 (4) |       |                           |

TOTAL WEIGHT = 2 X 139 = 277 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

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 2016

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, CBC 2012, ABC 2018  
- PART 9 OF CBC 2012 (2018 AMENDMENT)  
- CSA 088-09, 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 (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=0.58/1.00 (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

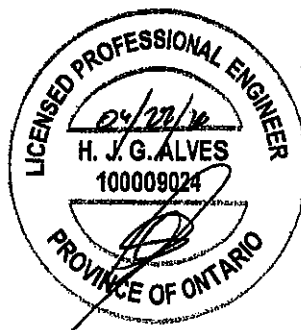
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 364 1667 788 1987 1636

PLATE PLACEMENT TOL. = 0.250 inches

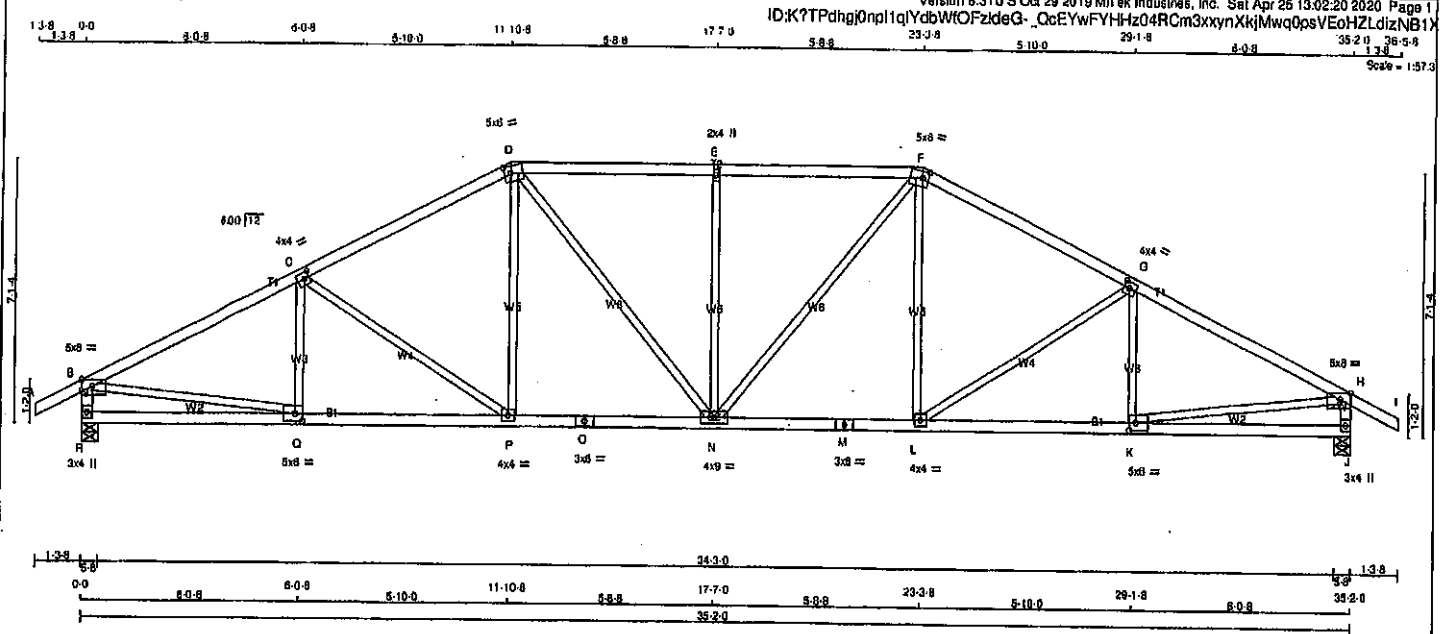
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (F) (INPUT = 0.80)  
JSI METAL = 0.75 (M) (INPUT = 1.00)



Structural component only  
DWG# T-2007171

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408170</b>       | TRUSS NAME<br><b>T43</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   |
| D - F                 | 2x4  | DRY    | No.2   |
| F - I                 | 2x4  | DRY    | No.2   |
| R - 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              | 2x3  | DRY    | No.2   |
| EXCEPT                |      |        |        |
| DRY, SEASONED LUMBER. |      |        |        |

| PLATES (table is in inches) |        |        |     |               |
|-----------------------------|--------|--------|-----|---------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X       |
| B                           | TMVW-p | MT20   | 5.0 | 8.0 Edge 3.50 |
| C                           | TMVW-i | MT20   | 4.0 | 4.0 2.00 1.75 |
| D                           | TTWW-m | MT20   | 5.0 | 8.0 2.25 2.00 |
| E                           | TMW-w  | MT20   | 2.0 | 4.0           |
| F                           | TTWW-m | MT20   | 5.0 | 8.0 2.25 2.00 |
| G                           | TMW-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                           | BMW-i  | MT20   | 5.0 | 8.0 2.50 2.25 |
| L                           | BMW-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                           | BMW-i  | MT20   | 4.0 | 4.0           |
| Q                           | BMW-i  | 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 |          |         |       |           |                  |         |       |         |       |
|-----------------------------------------------------------------------------------------------|----------|---------|-------|-----------|------------------|---------|-------|---------|-------|
| BEARINGS                                                                                      |          |         |       |           |                  |         |       |         |       |
| FACTORED                                                                                      |          |         |       |           | MAXIMUM FACTORED |         |       |         |       |
| GROSS REACTION                                                                                |          |         |       |           | GROSS REACTION   |         |       |         |       |
| JT                                                                                            | VERT     | HORZ    | DOWN  | HORZ      | UPLIFT           | IN-SX   | IN-SX | IN-SX   | IN-SX |
| R                                                                                             | 2063     | 0       | 2063  | 0         | 0                | 5-8     | 5-8   | 5-8     | 5-8   |
| J                                                                                             | 2063     | 0       | 2063  | 0         | 0                | 5-8     | 5-8   | 5-8     | 5-8   |
| UNFACTORED REACTIONS                                                                          |          |         |       |           |                  |         |       |         |       |
| 1ST LCASE MAX/MIN COMPONENT REACTIONS                                                         |          |         |       |           |                  |         |       |         |       |
| JT                                                                                            | COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND             | DEAD    | SOIL  | DEAD    | SOIL  |
| R                                                                                             | 1457     | 989 / 0 | 0 / 0 | 0 / 0     | 0 / 0            | 488 / 0 | 0 / 0 | 488 / 0 | 0 / 0 |
| J                                                                                             | 1457     | 989 / 0 | 0 / 0 | 0 / 0     | 0 / 0            | 488 / 0 | 0 / 0 | 488 / 0 | 0 / 0 |

| CHORDS |                           |                           |                |                           |       |                           |                           |       |                           |
|--------|---------------------------|---------------------------|----------------|---------------------------|-------|---------------------------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC)  | MAX. UNBRAC. LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRAC. LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1) | 10.00                     | Q-C   | -265 / 12                 | 0.07 (1)                  | Q-C   | -265 / 12                 |
| B-C    | -2889 / 0                 | -91.8                     | -91.8 0.58 (1) | 3.58                      | C-P   | -435 / 0                  | 0.42 (1)                  | C-P   | -435 / 0                  |
| C-D    | -2559 / 0                 | -91.8                     | -91.8 0.52 (1) | 3.33                      | P-D   | 0 / 350                   | 0.08 (1)                  | P-D   | 0 / 350                   |
| D-E    | -2559 / 0                 | -91.8                     | -91.8 0.48 (1) | 3.35                      | D-N   | 0 / 482                   | 0.11 (1)                  | D-N   | 0 / 482                   |
| E-F    | -2559 / 0                 | -91.8                     | -91.8 0.48 (1) | 3.35                      | N-E   | -841 / 0                  | 0.56 (1)                  | N-E   | -841 / 0                  |
| F-G    | -2559 / 0                 | -91.8                     | -91.8 0.52 (1) | 3.33                      | N-F   | 0 / 482                   | 0.11 (1)                  | N-F   | 0 / 482                   |
| G-H    | -2889 / 0                 | -91.8                     | -91.8 0.58 (1) | 3.58                      | L-F   | 0 / 350                   | 0.08 (1)                  | L-F   | 0 / 350                   |
| H-I    | 0 / 28                    | -91.8                     | -91.8 0.12 (1) | 10.00                     | L-G   | -435 / 0                  | 0.42 (1)                  | L-G   | -435 / 0                  |
| R-B    | -2014 / 0                 | 0.0                       | 0.0 0.20 (1)   | 6.95                      | K-G   | -255 / 12                 | 0.07 (1)                  | K-G   | -255 / 12                 |
| J-H    | -2014 / 0                 | 0.0                       | 0.0 0.20 (1)   | 6.95                      | B-Q   | 0 / 2535                  | 0.59 (1)                  | B-Q   | 0 / 2535                  |
| R-Q    | 0 / 0                     | -18.5                     | -18.5 0.15 (4) | 10.00                     | K-H   | 0 / 2535                  | 0.59 (1)                  | K-H   | 0 / 2535                  |
| Q-P    | 0 / 2809                  | -18.5                     | -18.5 0.49 (1) | 10.00                     |       |                           |                           |       |                           |
| P-D    | 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 = 25.6 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 8.00/12**

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

**THIS DESIGN COMPLES WITH:**  
 - PART 9 OF BCBC 2018, 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 (0.28")**

**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), SSI=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**

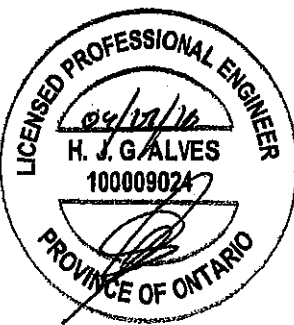
**TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.**

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

**PLATE PLACEMENT TOL. = 0.250 inches**

**PLATE ROTATION TOL. = 5.0 Deg.**

**JSI GRIP = 0.68 (C) (INPUT = 0.80)**  
**JSI METAL = 0.68 (M) (INPUT = 1.00)**

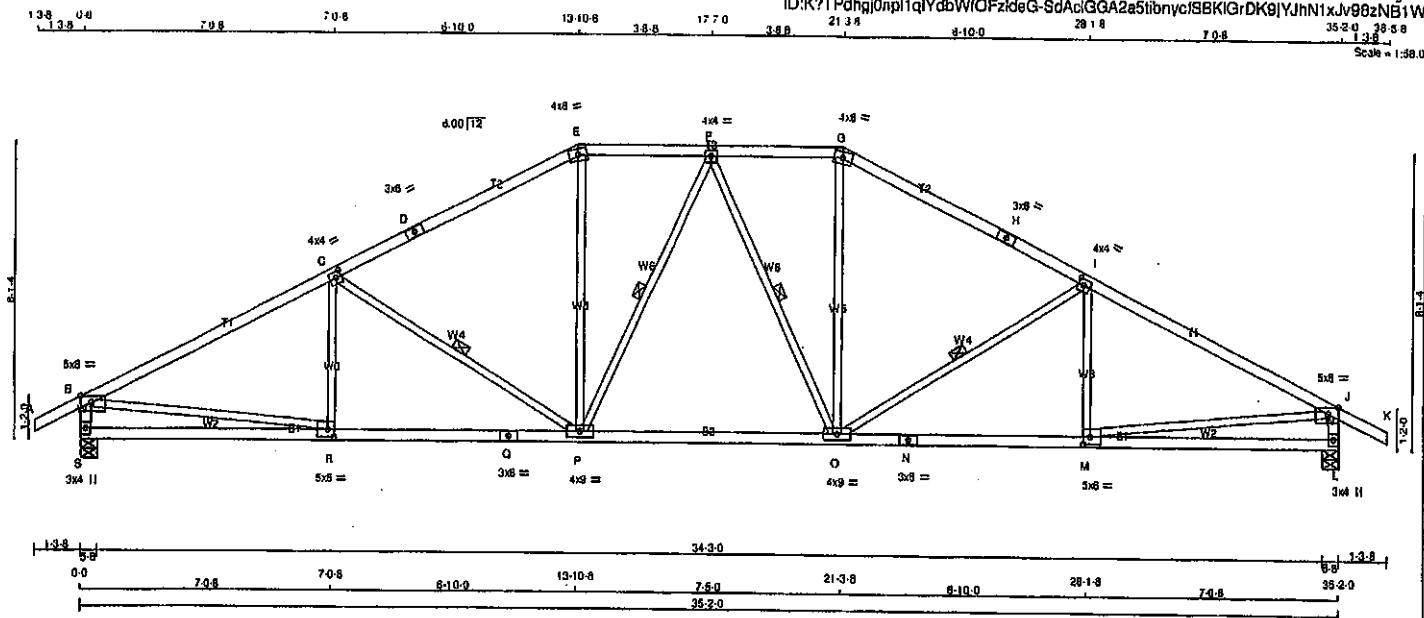


Structural component only  
 DWG# T-2007172

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

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 145 = 291 lb

| CHORDS | 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    |
| 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  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| C  | TMVW-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  | TMVW-t | MT20   | 4.0 | 4.0 |      |      |
| G  | TTW-m  | MT20   | 4.0 | 8.0 |      |      |
| H  | TS-t   | MT20   | 3.0 | 8.0 |      |      |
| I  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| J  | TMVW-p | MT20   | 6.0 | 8.0 | Edge | 3.50 |
| L  | BMV1-p | MT20   | 3.0 | 4.0 |      |      |
| M  | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 | 2.25 |
| N  | SS-t   | MT20   | 3.0 | 8.0 |      |      |
| O  | BMVW-t | MT20   | 4.0 | 8.0 |      |      |
| P  | BMVW-t | MT20   | 4.0 | 8.0 |      |      |
| Q  | SS-t   | MT20   | 3.0 | 8.0 |      |      |
| R  | BMVW-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 |      | MAXIMUM FACTORED |        | INPUT |     | RECORD |  |
|----------|------|----------|------|------------------|--------|-------|-----|--------|--|
| JT       | VERT | HORZ     | DOWN | HORZ             | UPLIFT | IN-SX | BRG | IN-SX  |  |
| S        | 2063 | 0        | 2063 | 0                | 0      | 5-8   | 5-8 |        |  |
| L        | 2063 | 0        | 2063 | 0                | 0      | 5-8   | 5-8 |        |  |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |       |       |         |       |       |  |
|----|----------|---------|---------------------|-------|-------|---------|-------|-------|--|
| S  | 1457     | 989 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 488 / 0 | 0 / 0 | 0 / 0 |  |
| L  | 1457     | 989 / 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) 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) | 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 | R-C                       | -182 / 52     | 0.08 (1) |
| B-C    | -2908 / 0                 | -91.8 -91.8               | 0.83 (1)      | 3.25  | C-P                       | -637 / 0      | 0.29 (1) |
| C-D    | -2373 / 0                 | -91.8 -91.8               | 0.72 (1)      | 3.66  | P-E                       | 0 / 674       | 0.15 (1) |
| D-E    | -2373 / 0                 | -91.8 -91.8               | 0.72 (1)      | 3.66  | F-O                       | -222 / 0      | 0.11 (1) |
| E-F    | -2100 / 0                 | -91.8 -91.8               | 0.19 (1)      | 4.53  | F-O                       | -222 / 0      | 0.11 (1) |
| F-G    | -2373 / 0                 | -91.8 -91.8               | 0.19 (1)      | 4.53  | O-G                       | 0 / 874       | 0.15 (1) |
| G-H    | -2373 / 0                 | -91.8 -91.8               | 0.72 (1)      | 3.66  | O-I                       | -637 / 0      | 0.29 (1) |
| H-I    | -2373 / 0                 | -91.8 -91.8               | 0.72 (1)      | 3.66  | M-I                       | -182 / 52     | 0.08 (1) |
| I-J    | -2908 / 0                 | -91.8 -91.8               | 0.83 (1)      | 3.25  | B-R                       | 0 / 2649      | 0.60 (1) |
| J-K    | 0 / 28                    | -91.8 -91.8               | 0.12 (1)      | 10.00 | M-J                       | 0 / 2649      | 0.60 (1) |
| S-B    | -2008 / 0                 | 0.0 0.0                   | 0.20 (1)      | 5.86  |                           |               |          |
| L-J    | -2008 / 0                 | 0.0 0.0                   | 0.20 (1)      | 5.86  |                           |               |          |
| B-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 / 2830                  | -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 / 2830                  | -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/CH

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BOBC 2018, 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 26.6 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=0.93/1.00 (B-C:1), BC=0.52/1.00 (P-R:1),  
WB=0.80/1.00 (B-R:1), SSI=0.29/1.00 (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

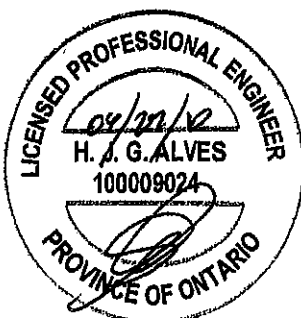
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1666

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.88 (M) (INPUT = 0.80)  
JSI METAL=0.79 (Q) (INPUT = 1.00)



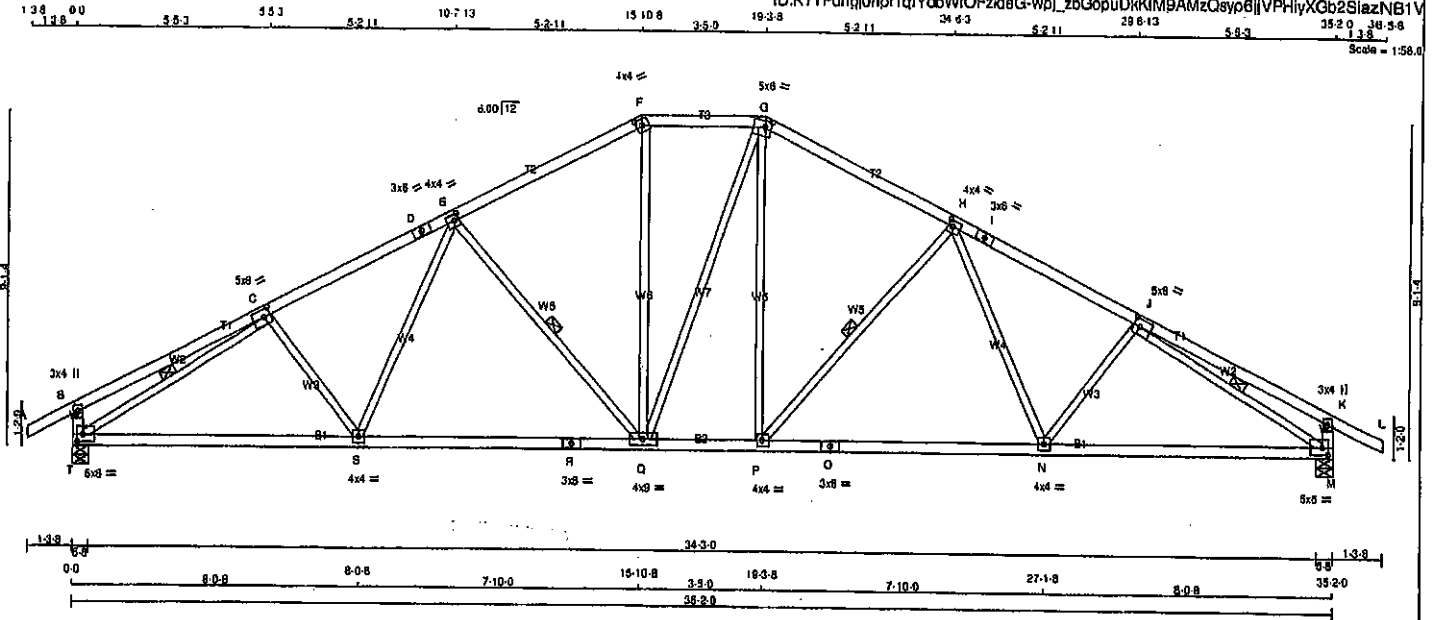
Structural component only  
DWG# T-2007173

|                    |                   |               |          |                               |          |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408170 | TRUSS NAME<br>T45 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|

Tamarack Roof Truss, Burlington

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

| PLATES (table is in inches) | JT      | TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|--------|-----|-----|------|------|
|                             | B       | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
|                             | C       | TMVW-1 | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
|                             | D       | TS-1   | MT20   | 3.0 | 6.0 |      |      |
|                             | E       | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
|                             | F       | TTW-h  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
|                             | G       | TTWV-m | MT20   | 6.0 | 6.0 | 2.00 | 2.00 |
|                             | H       | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
|                             | I       | TS-1   | MT20   | 3.0 | 6.0 |      |      |
|                             | J       | TMVW-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 |        |        |     |     |      |      |
|                             | O       | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
|                             | Q       | SS-1   | MT20   | 3.0 | 6.0 |      |      |
|                             | R       | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
|                             | Q       | SS-1   | MT20   | 3.0 | 6.0 |      |      |
|                             | T       | BMVW-1 | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |

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

| BEARINGS | FACTORED | GROSS REACTION | MAXIMUM FACTORED | INPUT | RECORD |
|----------|----------|----------------|------------------|-------|--------|
| JT       | VERT     | HORZ           | DOWN             | HORZ  | UPLIFT |
| T        | 2063     | 0              | 2063             | 0     | 5-8    |
| M        | 2063     | 0              | 2063             | 0     | 5-8    |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS |
|----------------------|-----------|---------|---------------------|
| JT                   | COMBINED  | SNOW    | LIVE                |
| T                    | 1457      | 989 / 0 | 0 / 0               |
| M                    | 1457      | 989 / 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 | MEMB.     | MAX. FACTORED | FORCE | VERT. LOAD | LC1      | MAX      | CS1 (LC) | UNBRAC    | WEBS      | MEMB.    | MAX. FACTORED | FORCE | MAX | CS1 (LC) |
|--------|-----------|---------------|-------|------------|----------|----------|----------|-----------|-----------|----------|---------------|-------|-----|----------|
| FR-TO  | A-B       | 0 / 28        |       | -91.8      | -91.8    | 0.12 (1) | 10.00    | C-S       | -110 / 37 |          | 0.04 (1)      |       |     |          |
| B-C    | 0 / 19    |               | -91.8 | -91.8      | 0.32 (1) | 10.00    | S-E      | 0 / 278   |           | 0.08 (1) |               |       |     |          |
| C-D    | -2769 / 0 |               | -91.8 | -91.8      | 0.40 (1) | 3.88     | E-Q      | -681 / 0  |           | 0.31 (1) |               |       |     |          |
| D-E    | -2769 / 0 |               | -91.8 | -91.8      | 0.40 (1) | 3.88     | Q-F      | 0 / 813   |           | 0.14 (1) |               |       |     |          |
| E-F    | -2187 / 0 |               | -91.8 | -91.8      | 0.38 (1) | 4.71     | P-G      | 0 / 809   |           | 0.14 (1) |               |       |     |          |
| F-G    | -1825 / 0 |               | -91.8 | -91.8      | 0.38 (1) | 4.30     | G-Q      | 0 / 4     |           | 0.00 (1) |               |       |     |          |
| G-H    | -2186 / 0 |               | -91.8 | -91.8      | 0.38 (1) | 3.88     | H-N      | 0 / 278   |           | 0.08 (1) |               |       |     |          |
| H-I    | -2760 / 0 |               | -91.8 | -91.8      | 0.40 (1) | 4.30     | P-H      | -682 / 0  |           | 0.31 (1) |               |       |     |          |
| I-J    | -2760 / 0 |               | -91.8 | -91.8      | 0.40 (1) | 3.88     | N-J      | -110 / 37 |           | 0.04 (1) |               |       |     |          |
| J-K    | 0 / 19    |               | -91.8 | -91.8      | 0.32 (1) | 10.00    | T-C      | -3040 / 0 |           | 0.85 (1) |               |       |     |          |
| K-L    | 0 / 28    |               | -91.8 | -91.8      | 0.12 (1) | 10.00    | J-M      | -3041 / 0 |           | 0.85 (1) |               |       |     |          |
| T-B    | -328 / 0  |               | 0.0   | 0.0        | 0.03 (1) | 7.81     |          |           |           |          |               |       |     |          |
| M-K    | -328 / 0  |               | 0.0   | 0.0        | 0.03 (1) | 7.81     |          |           |           |          |               |       |     |          |

|     |          |       |       |          |       |
|-----|----------|-------|-------|----------|-------|
| T-S | 0 / 2538 | -18.5 | -18.5 | 0.55 (1) | 10.00 |
| S-R | 0 / 2362 | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| R-Q | 0 / 2362 | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| Q-P | 0 / 1824 | -18.5 | -18.5 | 0.40 (1) | 10.00 |
| P-O | 0 / 2362 | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| O-N | 0 / 2362 | -18.5 | -18.5 | 0.53 (1) | 10.00 |
| N-M | 0 / 2537 | -18.5 | -18.5 | 0.58 (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. 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 2016

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 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/899 (0.15")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.32")

CS1: TC=0.40/1.00 (H-J:1), GC=0.58/1.00 (M-N:1), WB=0.85/1.00 (J-M:1), SS1=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)  
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 = 0.89 (M) (INPUT = 0.90)  
JSI METAL = 0.78 (O) (INPUT = 1.00)

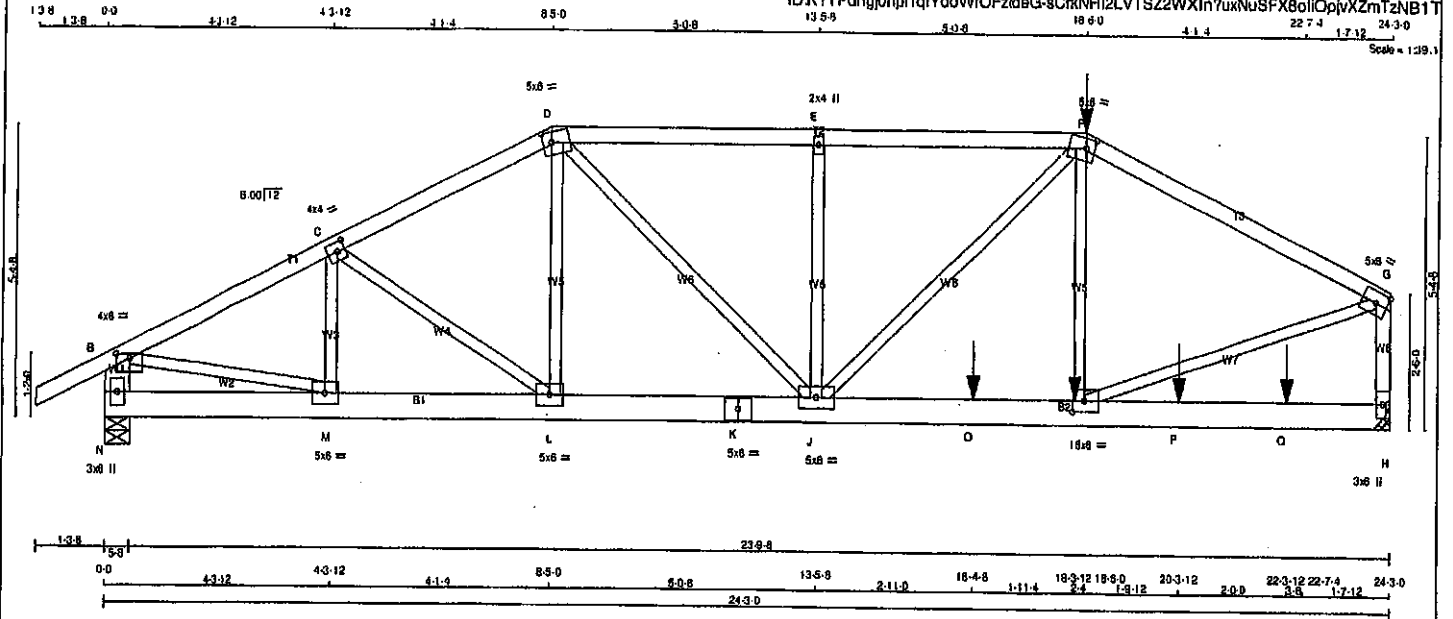


Structural component only  
DWG# T-2007174



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

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TOTAL WEIGHT = 2 X 114 = 228 lb

| LUMBER            |      |          |        |
|-------------------|------|----------|--------|
| N. L. G. A. RULES | 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             | 2x8  | DRY No.2 | SPF    |
| H - G             | 2x4  | DRY No.2 | SPF    |
| N - K             | 2x8  | DRY No.2 | SPF    |
| K - H             | 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 - D                                    | 12                   | TOP         |
| D - F                                    | 12                   | SIDE(81.0)  |
| F - G                                    | 12                   | SIDE(81.0)  |
| H - G                                    | 12                   | TOP         |
| N - B                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| N - K                                    | 12                   | TOP         |
| K - H                                    | 12                   | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 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.

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

| BEARINGS |      | FACTORED |          | MAXIMUM FACTORED |       | INPUT  |            | REQD |       |
|----------|------|----------|----------|------------------|-------|--------|------------|------|-------|
| JT       | VERT | GROSS    | REACTION | DOWN             | HORIZ | UPLIFT | IN-SX      | BRG  | IN-SX |
| N        | 2120 | 0        | 2120     | 0                | 0     | 0      | 5-8        | 5-8  | 5-8   |
| H        | 3119 | 0        | 3119     | 0                | 0     | 0      | MECHANICAL |      |       |

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

UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX. MIN. | COMPONENT REACTIONS | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|-----------|---------------------|-------|------------|-------|---------|-------|
| N  | 1495      | 1003 / 0  | 0 / 0               | 0 / 0 | 0 / 0      | 0 / 0 | 492 / 0 | 0 / 0 |
| H  | 2201      | 1472 / 0  | 0 / 0               | 0 / 0 | 0 / 0      | 0 / 0 | 729 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.64 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED   |         | MAX. FACTORED |       | WEBS        |             | MAX. FACTORED |             |
|--------|-------------|------------|---------|---------------|-------|-------------|-------------|---------------|-------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX | MAX. UNBRAC   | MEMB. | FORCE (LBS) | MAX. UNBRAC | MEMB.         | FORCE (LBS) |
| FR-TO  |             |            |         |               | FR-TO |             |             | FR-TO         |             |
| A-B    | 0 / 28      | -91.8      | -91.8   | 0.07 (1)      | 10.00 | M-C         | -408 / 0    | 0.04 (1)      |             |
| B-C    | -2914 / 0   | -91.8      | -91.8   | 0.17 (1)      | 5.22  | C-L         | -86 / 0     | 0.01 (1)      |             |
| C-D    | -2892 / 0   | -91.8      | -91.8   | 0.17 (1)      | 5.24  | L-D         | 0 / 70      | 0.01 (4)      |             |
| D-E    | -3517 / 0   | -91.8      | -91.8   | 0.27 (1)      | 4.74  | D-J         | 0 / 1336    | 0.17 (1)      |             |
| E-F    | -3517 / 0   | -91.8      | -91.8   | 0.27 (1)      | 4.74  | J-E         | -595 / 0    | 0.12 (1)      |             |
| F-G    | -3469 / 0   | -91.8      | -91.8   | 0.39 (1)      | 4.84  | J-F         | 0 / 575     | 0.07 (1)      |             |
| N-B    | -2064 / 0   | 0.0        | 0.0     | 0.07 (1)      | 7.81  | I-F         | 0 / 522     | 0.06 (1)      |             |
| H-G    | -2933 / 0   | 0.0        | 0.0     | 0.20 (1)      | 8.72  | I-G         | 0 / 3293    | 0.41 (1)      |             |
| N-M    | 0 / 0       | -18.5      | -18.5   | 0.03 (1)      | 10.00 | S-M         | 0 / 2684    | 0.33 (1)      |             |
| M-L    | 0 / 2622    | -18.5      | -18.5   | 0.21 (1)      | 10.00 |             |             |               |             |
| L-K    | 0 / 2568    | -18.5      | -18.5   | 0.33 (1)      | 10.00 |             |             |               |             |
| K-J    | 0 / 2568    | -18.5      | -18.5   | 0.33 (1)      | 10.00 |             |             |               |             |
| J-O    | 0 / 3109    | -18.5      | -18.5   | 0.69 (1)      | 10.00 |             |             |               |             |
| O-I    | 0 / 3109    | -18.5      | -18.5   | 0.69 (1)      | 10.00 |             |             |               |             |
| I-P    | 0 / 0       | -18.5      | -18.5   | 0.32 (1)      | 10.00 |             |             |               |             |
| P-Q    | 0 / 0       | -18.5      | -18.5   | 0.32 (1)      | 10.00 |             |             |               |             |
| Q-H    | 0 / 0       | -18.5      | -18.5   | 0.32 (1)      | 10.00 |             |             |               |             |

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1   | MAX.  | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| F  | 18-6-0  | -178  | -178  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| I  | 18-3-12 | -35   | -35   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 18-4-8  | -1681 | -1681 | ---  | 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 = 25.6 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 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, 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 RAIN LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.81")  
CALCULATED VERT. DEFL. (LL) = L/989 (0.08")  
ALLOWABLE DEFL. (TL) = L/360 (0.81")  
CALCULATED VERT. DEFL. (TL) = L/989 (0.15")

CSI: TC=0.39/1.00 (F-G-I), RC=0.69/1.00 (I-J-I), WB=0.41/1.00 (G-I-I), SB=0.37/1.00 (I-J-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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 818 354 1887 788 1987 1886

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  
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CONTINUED ON PAGE 2

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

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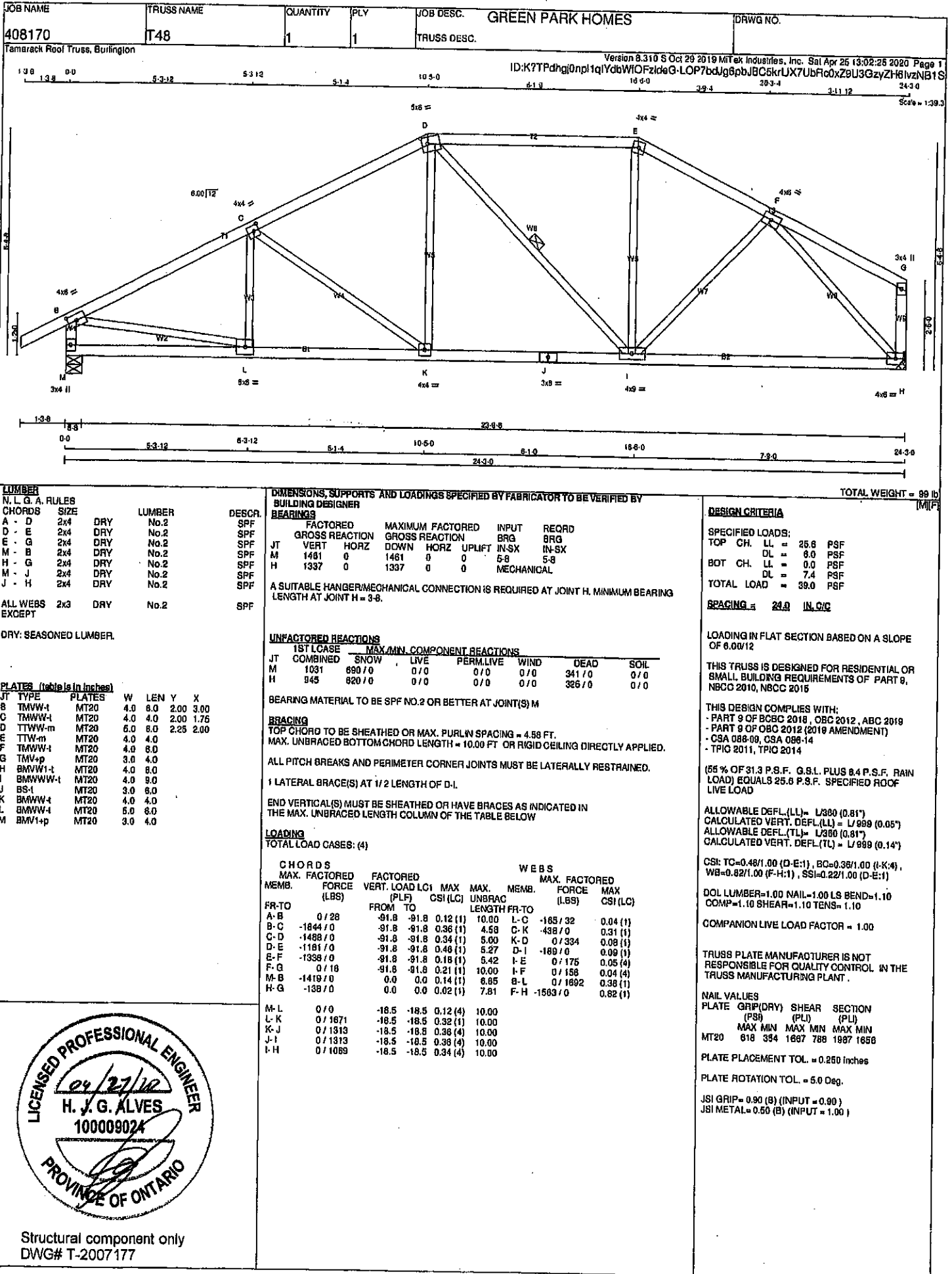
**PLATES (table in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW-p  | MT20   | 4.0 | 6.0 | 1.00 | 3.00 |
| 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   | 5.0 | 6.0 |      | Edge |
| H  | BMV1+p  | MT20   | 3.0 | 6.0 |      |      |
| I  | BMVW-l  | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| J  | BMVWW-l | MT20   | 5.0 | 8.0 |      |      |
| K  | BS-l    | MT20   | 5.0 | 6.0 |      |      |
| L  | BMVW-l  | MT20   | 5.0 | 6.0 |      |      |
| M  | BMVW-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 42

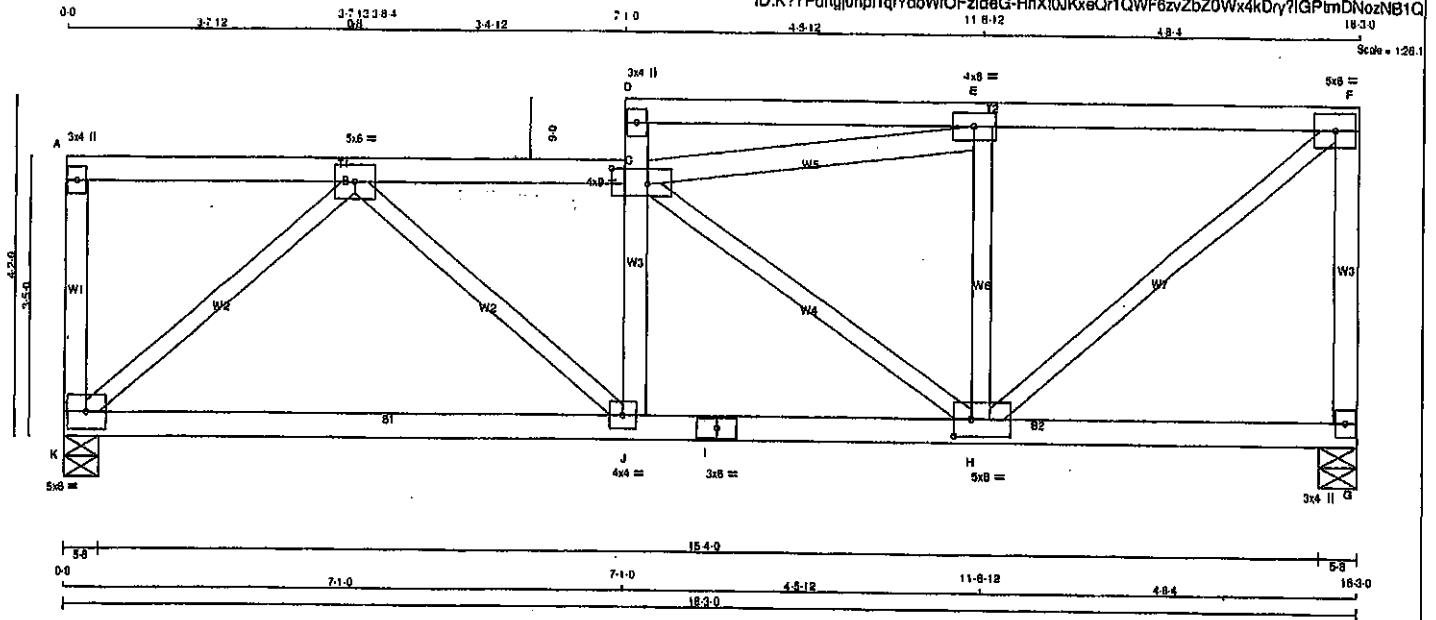




|          |            |          |     |                  |             |          |
|----------|------------|----------|-----|------------------|-------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
| 408170   | T49        | 3        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

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| LUMBER                |      |        |        |
|-----------------------|------|--------|--------|
| N. L. G. A. RULES     |      |        |        |
| CHORDS                | SIZE | LUMBER | DESCR. |
| K - A                 | 2x4  | DRY    | No.2   |
| A - C                 | 2x4  | DRY    | No.2   |
| J - D                 | 2x4  | DRY    | No.2   |
| D - F                 | 2x4  | DRY    | No.2   |
| G - F                 | 2x4  | DRY    | No.2   |
| K - I                 | 2x4  | DRY    | No.2   |
| I - G                 | 2x4  | DRY    | No.2   |
| 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                           | TMVW-1 | MT20   | 5.0 | 8.0     |
| C                           | TMVW-1 | MT20   | 4.0 | 9.0     |
| D                           | TMV+p  | MT20   | 3.0 | 4.0     |
| E                           | TMVW-1 | MT20   | 4.0 | 8.0     |
| F                           | TMVW-1 | MT20   | 5.0 | 8.0     |
| G                           | BMV1-p | MT20   | 3.0 | 4.0     |
| H                           | BMVW-1 | MT20   | 5.0 | 8.0     |
| I                           | BS-1   | MT20   | 3.0 | 8.0     |
| J                           | BMVW-1 | MT20   | 4.0 | 4.0     |
| K                           | BMVW-1 | 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

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| K  | 1079           | 0                | 1079  | 0    |
| G  | 1079           | 0                | 1079  | 0    |

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|------------|-------|---------|-------|
| 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 | FACTORED         | MAX. FACTORED   | MEMB. | MAX. FACTORED | FACTORED      | MAX. FACTORED |
|        | FORCE (LBS)   | VERT. LOAD (PLF) | MAX. CSI (LC)   |       | FORCE (LBS)   | MAX. CSI (LC) |               |
| FR-TO  |               |                  |                 | FR-TO |               |               |               |
| K-A    | -163 / 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    | -1416 / 0     | -114.3           | -114.3 0.37 (1) | 4.47  | C-E           | -981 / 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) | 8.25  | 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 |               |               |               |

TOTAL WEIGHT = 3 X 72 = 216 lb [MIR]

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
|            | DL = 15.0 | PSF |
| BOT CH.    | LL = 0.0  | PSF |
|            | DL = 7.4  | PSF |
| TOTAL LOAD | = 48.0    | PSF |

SPACING = 24.0 IN. O.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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, 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 (0.54")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")  
ALLOWABLE DEFL. (TL) = L/360 (0.54")  
CALCULATED VERT. DEFL. (TL) = L/899 (0.11")

CSI: TC=0.55/1.00 (E-F:1), BC=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        | SECTION       |
|------------------|--------------|---------------|
| (PSI)            | (PLI)        | (PLI)         |
| MAX MIN          | MAX MIN      | MAX MIN       |
| MT20             | 618 354 1687 | 768 1987 1698 |

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

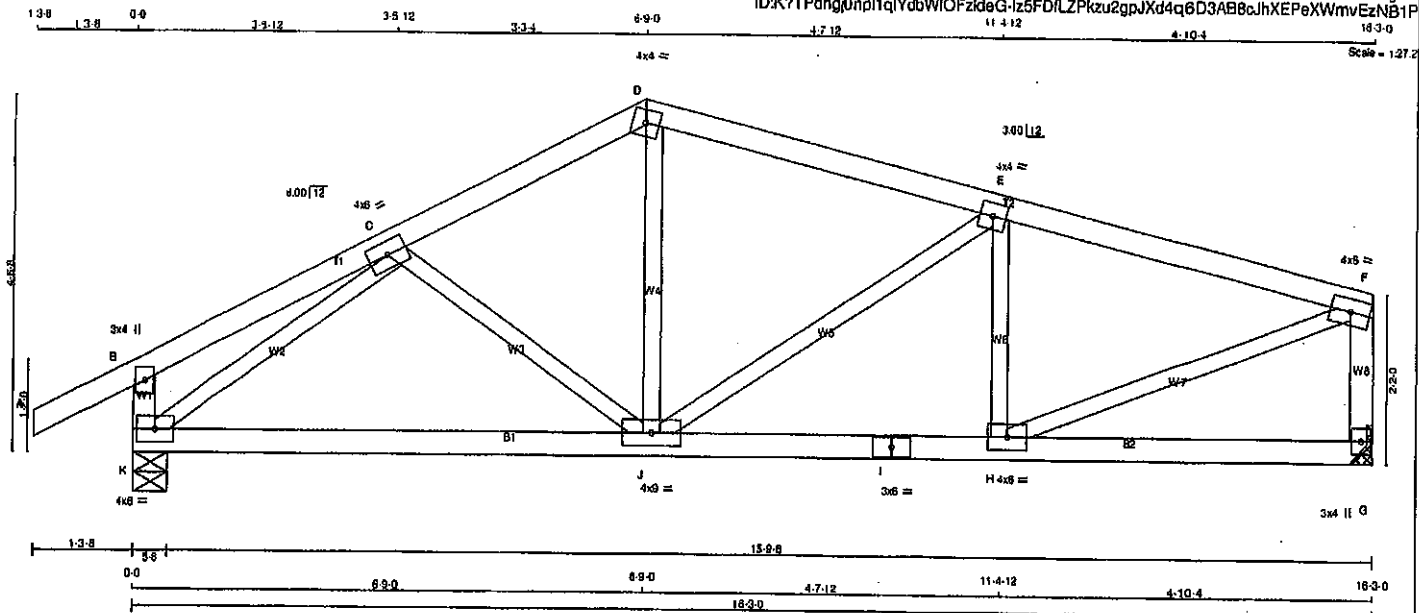


Structural component only  
DWG# T-2007178

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | T50        | 2           | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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| LUMBER           |        |      |        |
|------------------|--------|------|--------|
| N. L. & A. RULES | CHORDS | SIZE | LUMBER |
| A - D            | 2x4    | DRY  | No.2   |
| D - F            | 2x4    | DRY  | No.2   |
| K - B            | 2x4    | DRY  | No.2   |
| G - F            | 2x4    | DRY  | No.2   |
| K - I            | 2x4    | DRY  | No.2   |
| I - G            | 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  | TMVW-1 | MT20   | 4.0 | 6.0 |   |   |
| D  | TMV-1  | MT20   | 4.0 | 4.0 |   |   |
| E  | TMVW-1 | MT20   | 4.0 | 4.0 |   |   |
| F  | TMVW-1 | MT20   | 4.0 | 4.0 |   |   |
| G  | BMV+p  | MT20   | 3.0 | 4.0 |   |   |
| H  | BMVW-1 | MT20   | 4.0 | 6.0 |   |   |
| I  | BS-1   | MT20   | 3.0 | 6.0 |   |   |
| J  | BMVW-1 | MT20   | 4.0 | 6.0 |   |   |
| K  | BMVW-1 | 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             | DOWN  | HORZ |
| K  | 1020           | 0                | 1020  | 0    |
| G  | 896            | 0                | 896   | 0    |

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

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----|----------|------------------------------|------|------------|------|-------|------|
|    | COMBINED | SNOW                         | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| K  | 719      | 485/0                        | 0/0  | 0/0        | 0/0  | 234/0 | 0/0  |
| G  | 633      | 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 = 6.73 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  |                           |               |          |
|--------|---------------------------|---------------------------|----------------|-------|---------------------------|---------------|----------|
| 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                       | -135/7        | 0.04 (1) |
| B-C    | 0/14                      | -91.8                     | -91.8 0.15 (1) | 10.00 | J-D                       | 0/355         | 0.08 (1) |
| C-D    | -962/0                    | -91.8                     | -91.8 0.13 (1) | 8.20  | J-E                       | -263/0        | 0.13 (1) |
| D-E    | -994/0                    | -91.8                     | -91.8 0.26 (1) | 8.18  | H-E                       | -335/0        | 0.07 (1) |
| E-F    | -1094/0                   | -91.8                     | -91.8 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        | 0.26 (1) |
| G-F    | -855/0                    | 0.0                       | 0.0 0.10 (1)   | 7.81  |                           |               |          |
| K-J    | 0/956                     | -18.5                     | -18.5 0.28 (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

##### 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

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

(5% 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 (0.03")

CS: TC=0.27/1.00 (E-F:1), BC=0.27/1.00 (H-J:1),

WB=0.38/1.00 (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) | (PLI)   |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 618        | 354   | 1687    |
|       |            | 788   | 1987    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP = 0.71 (H) (INPUT = 0.80)  
JSI METAL = 0.32 (I) (INPUT = 1.00)

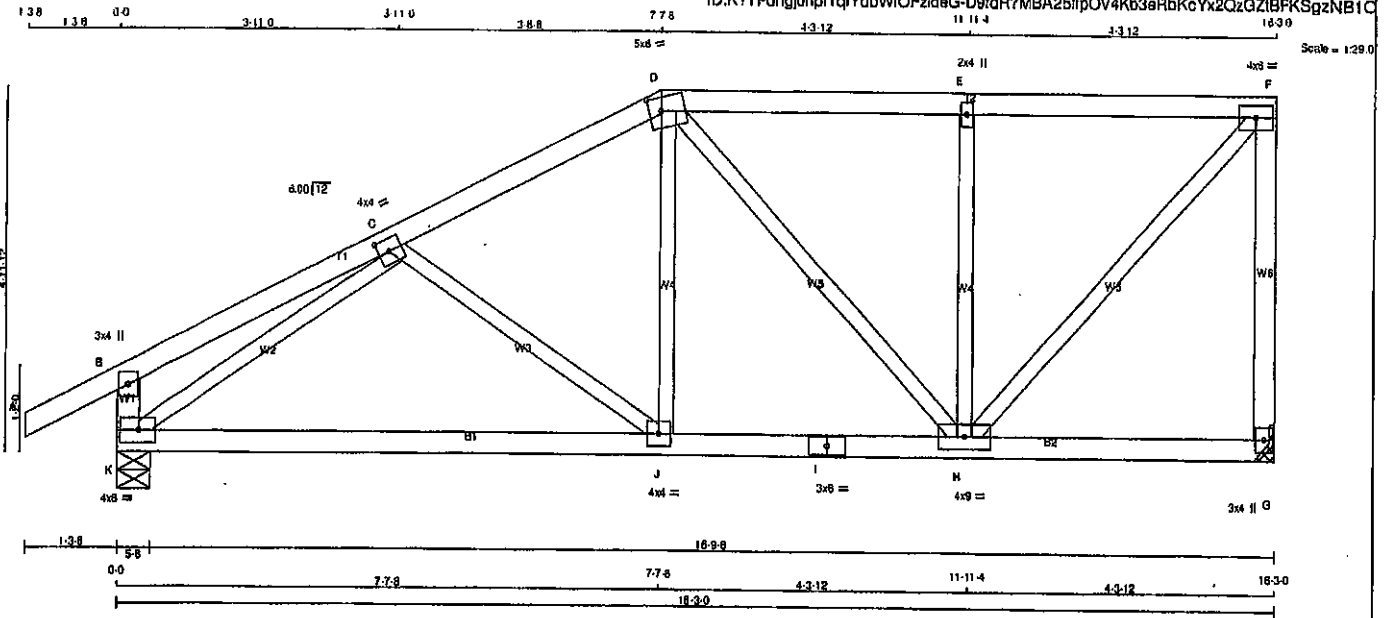


Structural component only  
DWG# T-2007179

|                           |                          |                      |                 |                                      |             |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>408170</b> | TRUSS NAME<br><b>T51</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 70 lb (M)

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

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| O  | TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTVW-m | MT20   | 5.0 | 8.0 | 2.25 | 2.00 |
| E  | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| G  | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW-1 | MT20   | 4.0 | 8.0 |      |      |
| I  | BS-1   | MT20   | 3.0 | 6.0 |      |      |
| J  | BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| K  | BMVW-1 | MT20   | 4.0 | 8.0 |      |      |

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

| BEARINGS       |      |      |      |                  |        |            |       |
|----------------|------|------|------|------------------|--------|------------|-------|
| FACTORED       |      |      |      | MAXIMUM FACTORED |        | INPUT      |       |
| GROSS REACTION |      |      |      | GROSS REACTION   |        | BRG        |       |
| JT             | VERT | HORZ | DOWN | HORZ             | UPLIFT | IN-SX      | IN-SX |
| G              | 898  | 0    | 898  | 0                | 0      | MECHANICAL |       |
| K              | 1020 | 0    | 1020 | 0                | 0      | 5-8        | 5-8   |

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

**UNFACTORED REACTIONS**

| 1ST LOOSE |          |       |      |            |      |       |      |
|-----------|----------|-------|------|------------|------|-------|------|
| JT        | COMBINED | SNOW  | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| G         | 898      | 418/0 | 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. CS1 (LG)  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LG) |          |
| 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 | D-H                       | 0/288         | 0.08 (1) |
| C-D    | -501/0                    | -91.8                     | -91.8 0.22 (1) | 6.21  | H-E                       | -210/0        | 0.14 (1) |
| D-E    | -554/0                    | -91.8                     | -91.8 0.29 (1) | 6.25  | E-F                       | -488/0        | 0.18 (1) |
| E-F    | -554/0                    | -91.8                     | -91.8 0.29 (1) | 6.25  | F-G                       | 0/981         | 0.22 (1) |
| G-F    | -558/0                    | 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    | 0/786                     | -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 = 25.8 PSF  
DL = 8.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 39.0 PSF

**SPACING = 24.0 IN. 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, 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 (0.54")  
CALCULATED VERT. DEFL.(LL) = 1/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.54")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.12")

CS1: TC=0.35/1.00 (F-G:1), BC=0.30/1.00 (J-K:4), WB=0.43/1.00 (C-K:1), SS1=0.19/1.00 (E-F:1)

DDL 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 1987 1858

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)

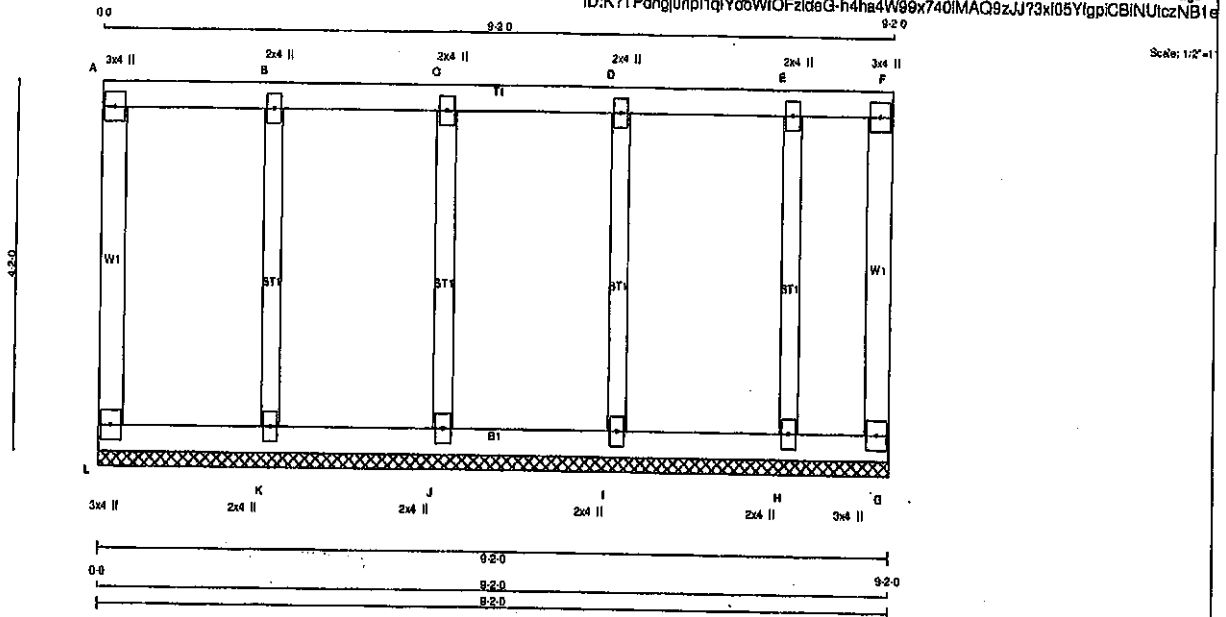


Structural component only  
DWG# T-2007180

|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>408170 | TRUSS NAME<br>G52 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

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

GABLE STUDS SPACED AT 2-0-0 OC.

#### PLATES (table in inches)

| JT         | TYPE   | PLATES | W   | LEN | Y | X |
|------------|--------|--------|-----|-----|---|---|
| A          | TMV+p  | MT20   | 3.0 | 4.0 |   |   |
| B, C, D, E |        |        |     |     |   |   |
| B          | TMW+w  | MT20   | 2.0 | 4.0 |   |   |
| F          | TMV+p  | MT20   | 3.0 | 4.0 |   |   |
| G          | BMV1+p | MT20   | 3.0 | 4.0 |   |   |
| H, I, J, K |        |        |     |     |   |   |
| H          | BMW1+w | MT20   | 2.0 | 4.0 |   |   |
| L          | BMV1+p | MT20   | 3.0 | 4.0 |   |   |

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

#### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

#### BRACING

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS     |                           |                        |                       |
|--------|---------------------------|---------------------------|------------------------|----------|---------------------------|------------------------|-----------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX (LBS) | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED LC1 MAX (LBS) | UNBRACED LENGTH FR-TO |
| L-A    | -100 / 0                  | 0.0                       | 0.0                    | 0.02 (1) | 7.81                      | K-B                    | -245 / 0              |
| A-B    | -4 / 0                    | -114.3                    | -114.3                 | 0.08 (1) | 10.00                     | J-C                    | -224 / 0              |
| B-C    | -4 / 0                    | -114.3                    | -114.3                 | 0.08 (1) | 10.00                     | I-D                    | -238 / 0              |
| C-D    | -4 / 0                    | -114.3                    | -114.3                 | 0.07 (1) | 10.00                     | H-E                    | -188 / 0              |
| D-E    | -4 / 0                    | -114.3                    | -114.3                 | 0.07 (1) | 10.00                     |                        |                       |
| E-F    | -4 / 0                    | -114.3                    | -114.3                 | 0.05 (1) | 10.00                     |                        |                       |
| G-F    | -54 / 0                   | 0.0                       | 0.0                    | 0.02 (1) | 7.81                      |                        |                       |
| L-K    | 0 / 4                     | -18.5                     | -18.5                  | 0.02 (4) | 10.00                     |                        |                       |
| K-J    | 0 / 4                     | -18.5                     | -18.5                  | 0.02 (4) | 10.00                     |                        |                       |
| J-I    | 0 / 4                     | -18.5                     | -18.5                  | 0.02 (4) | 10.00                     |                        |                       |
| I-H    | 0 / 4                     | -18.5                     | -18.5                  | 0.02 (4) | 10.00                     |                        |                       |
| H-G    | 0 / 4                     | -18.5                     | -18.5                  | 0.01 (4) | 10.00                     |                        |                       |

TOTAL WEIGHT = 41 lb (M/R)

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |        |        |     |
|------------|--------|--------|-----|
| TOP CH.    | LL     | = 25.8 | PSF |
| DL         | = 15.0 | PSF    |     |
| ROT CH.    | LL     | = 0.0  | PSF |
| DL         | = 7.4  | PSF    |     |
| TOTAL LOAD | = 48.0 | 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, NBCC 2010, NBCC 2015

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 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

CSI: TC=0.08/1.00 (B-C:1), BC=0.02/1.00 (J-K:4), WB=0.08/1.00 (B-K:1), SS=0.13/1.00 (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  
FLAT ROOF FACTOR = 0.75

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

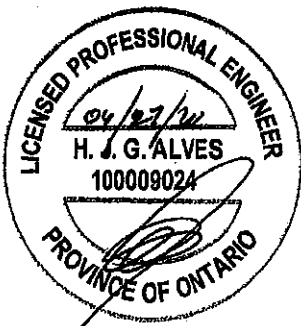
##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
| (PSI) | (PLI)      | (PLI) | (PLI)   |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 810        | 354   | 1687    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

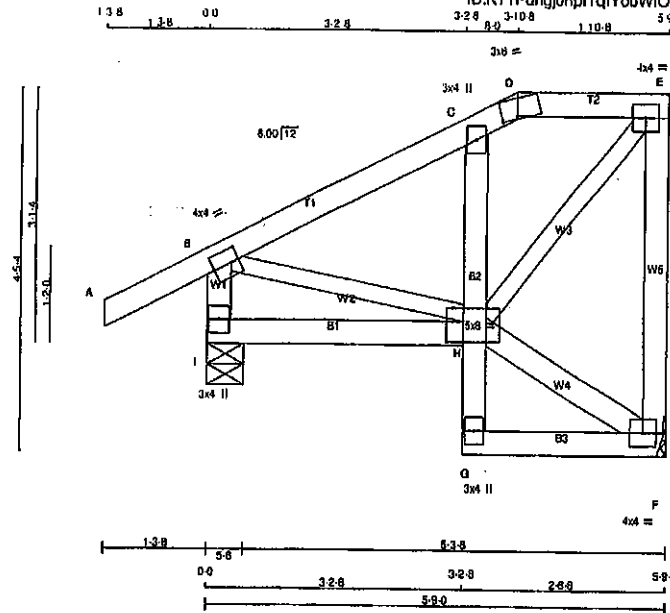
JSI GRIP = 0.17 (B) (INPUT = 0.90)  
JSI METAL = 0.07 (K) (INPUT = 1.00)



Structural component only  
DWG# T-2007166

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|---------------------------------|------------|----------|-----|------------------|----------|
| 408170                          | T53S       | 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 - 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 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 TY-m     | MT20   | 3.0 | 8.0 | 0.50 | 2.50 |
| E TMVW-1   | MT20   | 4.0 | 4.0 |      |      |
| F BMVW-1-t | 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 BMV-1-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  |
| F        | 302  | 0              | 302              | 0     | 0    |
| I        | 457  | 0              | 457              | 0     | 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 |
|----|----------|---------|---------------------|
| F  | COMBINED | SNOW    | LIVE                |
| F  | 214      | 138 / 0 | 0 / 0               |
| I  | 320      | 225 / 0 | 0 / 0               |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN 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: (4)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | 0 / 28                    | H-F   | -10 / 0                   |
| B-C    | -217 / 0                  | G-H   | 0 / 153                   |
| C-D    | -200 / 0                  | H-E   | 0 / 247                   |
| D-E    | -167 / 0                  |       |                           |
| E-F    | -273 / 0                  |       |                           |
| F-G    | -420 / 0                  |       |                           |
|        |                           |       |                           |
| I-H    | 0 / 41                    |       |                           |
| G-H    | 0 / 25                    |       |                           |
| H-C    | -188 / 0                  |       |                           |
| G-F    | 0 / 18                    |       |                           |

#### DESIGN CRITERIA

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

SPACING = 24\"/>

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

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

(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 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/998 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/998 (0.00")

CSI: TC=0.14/1.00 (B-C:1), BC=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)  
MAX MIN MAX MIN MAX MIN  
MT20 618 554 1887 788 1887 1856

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)

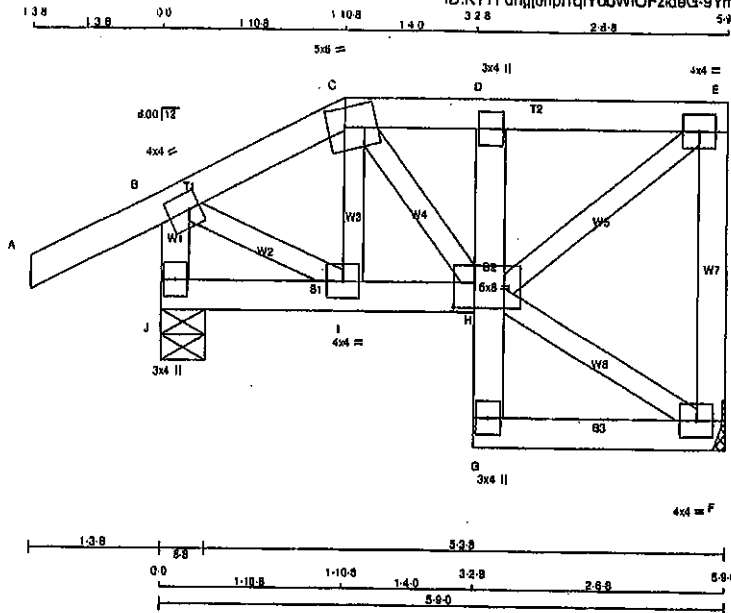


Structural component only  
DWG# T-2007181

|                    |                    |               |          |                               |          |
|--------------------|--------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408170 | TRUSS NAME<br>T54S | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|--------------------|---------------|----------|-------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1/2" = 1'-0"

| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER |
|--------|-------------------|--------|------|-----|--------|
| A - C  | 2x4               | DRY    | No.2 |     |        |
| C - E  | 2x4               | DRY    | No.2 |     |        |
| F - H  | 2x4               | DRY    | No.2 |     |        |
| H - I  | 2x4               | DRY    | No.2 |     |        |
| I - J  | 2x4               | DRY    | No.2 |     |        |
| J - F  | 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-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C TTWW-m  | MT20   | 5.0 | 8.0 | 2.25 | 2.00 |
| D TMVp    | MT20   | 3.0 | 4.0 |      |      |
| E TMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| F BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| G BMVp    | MT20   | 3.0 | 4.0 |      |      |
| H BVMWW-t | MT20   | 5.0 | 8.0 | 3.00 | 2.50 |
| I BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| J BMVp    | 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    |
| J        | 458            | 0                | 458   | 0    |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|---------|-------|------------|-------|--------|-------|
| F  | 214      | 139 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 75 / 0 | 0 / 0 |
| J  | 320      | 225 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 95 / 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 = 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: (4)

| CHORDS | MEMB. | MAX. FACTORED | FACTORED | VERT. LOAD | LC1      | MAX   | CS1 (LC) | UNBRAC  | MEMB.    | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1 | MAX | CS1 (LC) |
|--------|-------|---------------|----------|------------|----------|-------|----------|---------|----------|---------------|-------------|------------|-----|-----|----------|
| FR-TO  |       | FORCE (LBS)   | FROM     | TO         |          |       |          | LENGTH  | FR-TO    |               | FORCE (LBS) | FROM       | TO  |     |          |
| A-B    |       | 0 / 28        | -91.8    | -91.8      | 0.12 (1) | 10.00 | I-C      | 50 / 10 | 0.01 (1) |               |             |            |     |     |          |
| B-C    |       | -240 / 0      | -91.8    | -91.8      | 0.12 (1) | 6.25  | C-H      | 0 / 84  | 0.02 (1) |               |             |            |     |     |          |
| C-D    |       | -248 / 0      | -91.8    | -91.8      | 0.05 (1) | 6.25  | H-F      | -9 / 0  | 0.00 (1) |               |             |            |     |     |          |
| D-E    |       | -241 / 0      | -91.8    | -91.8      | 0.07 (1) | 6.25  | H-E      | 0 / 302 | 0.07 (1) |               |             |            |     |     |          |
| E-F    |       | -278 / 0      | 0.0      | 0.0        | 0.05 (1) | 7.81  | B-I      | 0 / 214 | 0.05 (1) |               |             |            |     |     |          |
| J-B    |       | -439 / 0      | 0.0      | 0.0        | 0.04 (1) | 7.81  |          |         |          |               |             |            |     |     |          |
| J-I    |       | 0 / 0         | -18.5    | -18.5      | 0.02 (4) | 10.00 |          |         |          |               |             |            |     |     |          |
| I-H    |       | 0 / 193       | -18.5    | -18.5      | 0.04 (1) | 10.00 |          |         |          |               |             |            |     |     |          |
| G-H    |       | 0 / 25        | 0.0      | 0.0        | 0.02 (1) | 10.00 |          |         |          |               |             |            |     |     |          |
| H-D    |       | -219 / 0      | 0.0      | 0.0        | 0.01 (1) | 7.81  |          |         |          |               |             |            |     |     |          |
| G-F    |       | 0 / 8         | -18.5    | -18.5      | 0.03 (4) | 10.00 |          |         |          |               |             |            |     |     |          |

TOTAL WEIGHT = 31 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. 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, NBCO 2010, NBCO 2016

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

#### 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 (0.10")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.007")  
ALLOWABLE DEFL. (TL) = L/360 (0.10")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CS1: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (H-I:1), WB=0.07/1.00 (E-H:1), SS=0.10/1.00 (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 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.33 (B) (INPUT = 0.80)  
JSI METAL = 0.13 (B) (INPUT = 1.00)

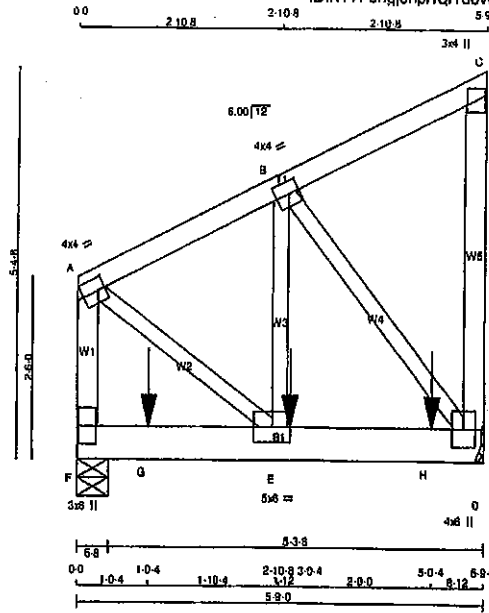


Structural component only  
DWG# T-2007182

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

Tamarack Roof Trusses, Burlington

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Scale = 1/32

| 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                 | 2x4 DRY No.2      | SPF    |      |        |        |
| ALL WEBS              | 2x3 DRY No.2      | SPF    |      |        |        |
| DRY: SEASONED LUMBER. |                   |        |      |        |        |

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

| CHORDS #ROWS                             | SURFACE | 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                                    | 8       | SIDE (45.8)  |
| 2x3                                      | 8       |              |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

| JT TYPE   | PLATES | W   | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| 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 TMV+p   | 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       | MAXIMUM FACTORED | INPUT      | RECORD |
|----------|----------------|------------------|------------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG        | BRG    |
| JT VERT  | HORZ           | DOWN             | HORZ       | UPLIFT |
| F        | 1689           | 0                | 1589       | 0      |
| D        | 1880           | 0                | 1880       | 0      |
|          |                |                  | MECHANICAL |        |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND    | DEAD  | SOIL  |
|----|-----------|------------------------------|-------|-------|------------|---------|-------|-------|
| F  | 1121      | 750 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 371 / 0 | 0 / 0 | 0 / 0 |
| D  | 1185      | 782 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 394 / 0 | 0 / 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 | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC2) | MAX. FACTORED VERT. LOAD (LC3) | MAX. FACTORED VERT. LOAD (LC4) | MAX. FACTORED VERT. LOAD (LC5) | MAX. FACTORED VERT. LOAD (LC6) | MAX. FACTORED VERT. LOAD (LC7) | MAX. FACTORED VERT. LOAD (LC8) | MAX. FACTORED VERT. LOAD (LC9) | MAX. FACTORED VERT. LOAD (LC10) |
|--------|-----------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
| FR-TO  |           |                           |                           |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                 |
| F-A    | -1074 / 0 | 0.0                       | 0.0                       | 0.07 (1)                       | 7.81                           | A-E                            | 0 / 975                        | 0.12 (1)                       |                                |                                |                                |                                |                                 |
| A-B    | -867 / 0  | -91.8                     | -91.8                     | 0.08 (1)                       | 6.25                           | E-B                            | 0 / 1044                       | 0.13 (1)                       |                                |                                |                                |                                |                                 |
| B-C    | -12 / 0   | -91.8                     | -91.8                     | 0.08 (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 / 788   | -18.5                     | -18.5                     | 0.21 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                |                                 |
| H-D    | 0 / 788   | -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 | = | 25.8 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 39.0 | PSF |

SPACING = 24.0 IN. CG

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.19")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")  
ALLOWABLE DEFL. (TL) = L/360 (0.19")  
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            |
|------------------|---------|--------------------|
| (PSI)            | (PLI)   | (PLI)              |
| MAX MIN          | MAX MIN | MAX MIN            |
| MT20             | 618 354 | 1867 768 1867 1858 |

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                                                                                                                                                                                                                                                    | TRUSS NAME | QUANTITY                                                                           | PLY | JOB DESC.        | DRWG NO. |         |        |   |     |   |   |          |      |     |     |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|-----|------------------|----------|---------|--------|---|-----|---|---|----------|------|-----|-----|--|--|
| 408170                                                                                                                                                                                                                                                      | T55        | 1                                                                                  | 2   | GREEN PARK HOMES |          |         |        |   |     |   |   |          |      |     |     |  |  |
| Tamarack Roof Truss, Burlington                                                                                                                                                                                                                             |            | Version 8.310 9 Oct 20 2019 Mitek Industries, Inc. Sat Apr 25 13:02:32 2020 Page 2 |     |                  |          |         |        |   |     |   |   |          |      |     |     |  |  |
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| <p>PLATES (table in inches)</p> <table border="1"><thead><tr><th>JT TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr></thead><tbody><tr><td>F BMV1+p</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr></tbody></table> |            |                                                                                    |     |                  |          | 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-2007183</p>                                                                                                          |            |                                                                                    |     |                  |          |         |        |   |     |   |   |          |      |     |     |  |  |



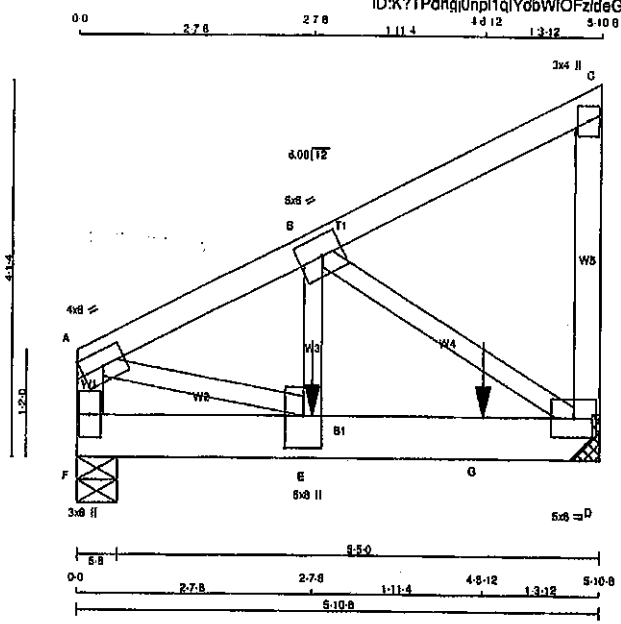
|                    |                   |               |          |                               |          |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408170 | TRUSS NAME<br>T56 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|

Tamarrack Roof Truss, Burlington

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Scale = 1:20.0



| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| F - A             | 2x4    | DRY  | No.2   |
| A - C             | 2x4    | DRY  | No.2   |
| O - C             | 2x4    | DRY  | No.2   |
| F - D             | 2x6    | DRY  | No.2   |

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) |
|--------------|----------------------|------------|
| F-A          | 12                   | TOP        |
| A-C          | 12                   | TOP        |
| C-D          | 12                   | TOP        |

TOP CHORDS: (0.122"x3") SPIRAL NAILS

BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS

WEBS: (0.122"x3") SPIRAL NAILS

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| A                           | TMVW-t | MT20   | 4.0 | 8.0 | Edge      |
| B                           | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 2.75 |
| C                           | TMV+p  | MT20   | 3.0 | 4.0 |           |
| D                           | BMVW-t | MT20   | 5.0 | 6.0 |           |
| E                           | BMVW-t | MT20   | 5.0 | 8.0 | 4.25 2.50 |

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

| REARINGS       |      |      |      |                  |      |            |      |
|----------------|------|------|------|------------------|------|------------|------|
| FACTORED       |      |      |      | MAXIMUM FACTORED |      |            |      |
| GROSS REACTION |      |      |      | GROSS REACTION   |      |            |      |
| JT             | VERT | HORZ | DOWN | JT               | VERT | HORZ       | DOWN |
| F              | 2334 | 0    | 2334 | 0                | 0    | 5-8        | 5-8  |
| D              | 2733 | 0    | 2733 | 0                | 0    | MECHANICAL |      |

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

UNFACTORED REACTIONS

| JT | 1ST LOSE | MAX. MIN. COMPONENT REACTIONS | 1ST LOSE | MAX. MIN. COMPONENT REACTIONS |
|----|----------|-------------------------------|----------|-------------------------------|
| JT | COMBINED | SNOW                          | LIVE     | PERM. LIVE                    |
| F  | 1848     | 1103 / 0                      | 0 / 0    | 0 / 0                         |
| D  | 1929     | 1290 / 0                      | 0 / 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            |           |       |       | WEBS              |       |     |           |
|-------------------|-----------|-------|-------|-------------------|-------|-----|-----------|
| MAX. FACTORED     |           |       |       | MAX. FACTORED     |       |     |           |
| MEMB. FORCE (LBS) |           |       |       | MEMB. FORCE (LBS) |       |     |           |
| FROM TO           |           |       |       | FROM TO           |       |     |           |
| F-A               | -2316 / 0 | 0.0   | 0.0   | 0.13 (1)          | 7.37  | A-E | 0 / 2888  |
| A-B               | -3101 / 0 | -91.8 | -91.8 | 0.08 (1)          | 5.20  | E-B | 0 / 2880  |
| B-C               | -5 / 0    | -91.8 | -91.8 | 0.08 (1)          | 10.00 | B-D | -3303 / 0 |
| D-C               | -138 / 0  | 0.0   | 0.0   | 0.02 (1)          | 7.81  |     |           |
| F-E               | 0 / 0     | -18.5 | -18.5 | 0.01 (4)          | 10.00 |     |           |
| E-G               | 0 / 2779  | -18.5 | -18.5 | 0.57 (1)          | 10.00 |     |           |
| G-D               | 0 / 2779  | -18.5 | -18.5 | 0.67 (1)          | 10.00 |     |           |

| FACTORED CONCENTRATED LOADS (LBS) |        |       |       |      |      |      |       |
|-----------------------------------|--------|-------|-------|------|------|------|-------|
| JT                                | LOC.   | LC1   | MAX.  | MAX+ | FACE | DIR. | TYPE  |
| E                                 | 2-7-8  | -3101 | -3101 | ---  | BACK | VERT | TOTAL |
| G                                 | 4-8-12 | -1318 | -1318 | ---  | BACK | VERT | TOTAL |

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 28 = 57 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/GC

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 2015, CBC 2012, ABC 2018

- PART 9 OF CBC 2012 (2019 AMENDMENT)

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(95 % 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/999 (0.02")

ALLOWABLE DEFL.(TL) = L/360 (0.20")

CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TO=0.13/1.00 (A-F:1), 8C=0.57/1.00 (D-E:1), WB=0.42/1.00 (B-D:1), SS=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

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (E) (INPUT = 0.90)

JSI METAL=0.50 (E) (INPUT = 1.00)



Structural component only

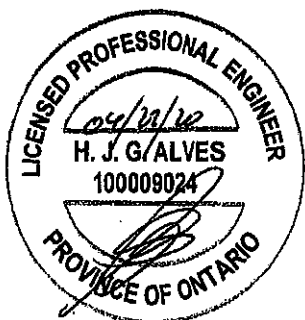
DWG# T-2007184 1/2

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | T56        | 1           | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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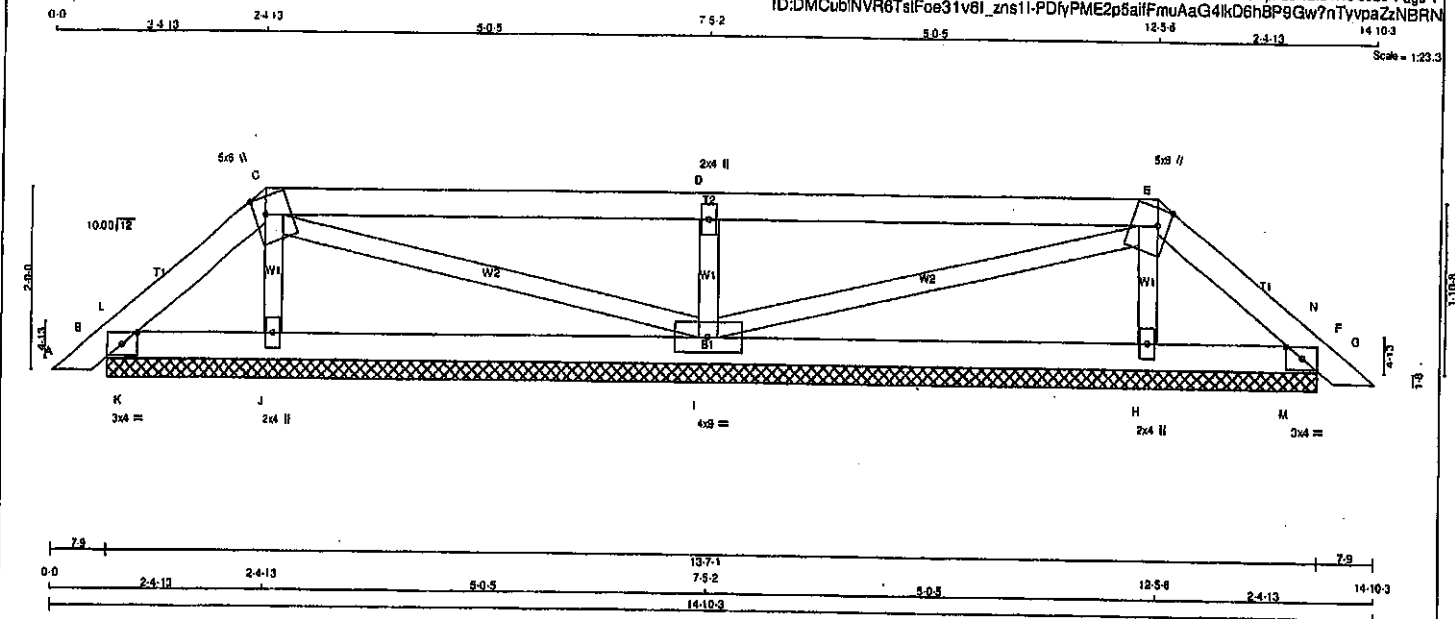
PLATES (table is in inches)  
JT TYPE PLATES W LEN Y X  
F BMV1+p MT20 3.0 6.0

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



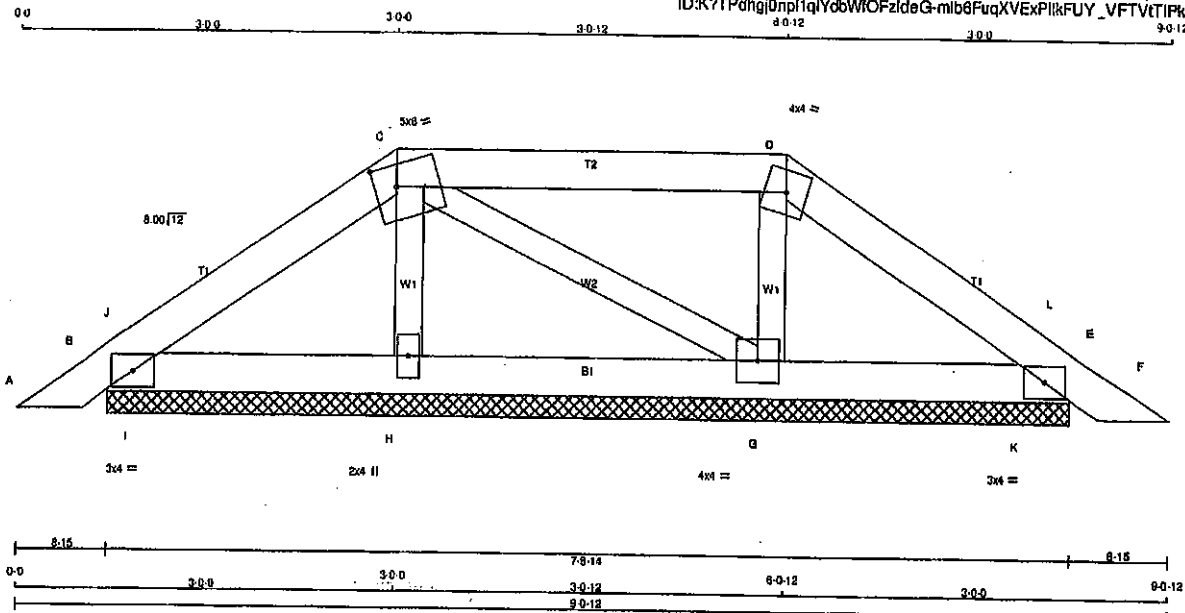
Structural component only  
DWG# T-2007184 42

|                                                                                    |            |          |     |                  |          |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408168                                                                             | PB1        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                    |            |          |     |                  |          |
| Version 8.310 5 Oct 20 2019 MITAK Industries, Inc. Sat Apr 25 12:34:46 2020 Page 1 |            |          |     |                  |          |
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| Scale = 1:23.3                                                                     |            |          |     |                  |          |



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408169                          | PB20       | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:K7TPdngj0npl1qYdbWtOFzIdeG-mib6FuqXVexPIkFUY\_VFTVKTIPKw7jivF8AJozNBDH



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

| PLATES (table in inches) |         |        |     |               |
|--------------------------|---------|--------|-----|---------------|
| JT                       | TYPE    | PLATES | W   | LEN Y X       |
| B                        | TMB1-t  | MT20   | 3.0 | 4.0           |
| C                        | TTWW-m  | MT20   | 5.0 | 8.0 2.00 2.00 |
| D                        | TTWW-m  | MT20   | 4.0 | 4.0           |
| E                        | TMB1-t  | MT20   | 3.0 | 4.0           |
| G                        | BMWW1-t | MT20   | 4.0 | 4.0           |
| H                        | BMWW1-w | MT20   | 2.0 | 4.0           |

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT |        | RECORD |       |
|----------|------|----------------|------|------------------|------|-------|--------|--------|-------|
| JT       | VERT | GROSS REACTION | HORZ | GROSS REACTION   | HORZ | BRG   | IN-SX  | BRG    | IN-SX |
| B        | 221  | 0              | 0    | 221              | 0    | 0     | 7-8-14 | 7-8-14 |       |
| E        | 209  | 0              | 0    | 209              | 0    | 0     | 7-8-14 | 7-8-14 |       |
| H        | 248  | 0              | 0    | 248              | 0    | 0     | 7-8-14 | 7-8-14 |       |
| G        | 280  | 0              | 0    | 280              | 0    | 0     | 7-8-14 | 7-8-14 |       |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN COMPONENT REACTIONS |       | WIND      |       | DEAD   |       | SOIL     |      |
|-----------|----------|-----------------------------|-------|-----------|-------|--------|-------|----------|------|
| JT        | COMBINED | SNOW                        | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  | COMBINED | SOIL |
| B         | 154      | 113 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 41 / 0 | 0 / 0 |          |      |
| E         | 148      | 106 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 39 / 0 | 0 / 0 |          |      |
| H         | 178      | 109 / 0                     | 0 / 0 | 0 / 0     | 0 / 0 | 67 / 0 | 0 / 0 |          |      |
| G         | 198      | 127 / 0                     | 0 / 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 = 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         |                | WIND  |             | FACTORED     |       |
|--------|-------------|------------------|----------------|-------|-------------|--------------|-------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. CS (LC)   | MEMB. | FORCE (LBS) | MAX. CS (LC) | MEMB. |
| FR-TO  |             | FROM TO          |                | FR-TO |             |              |       |
| A-B    | 0 / 15      | -91.8            | -91.8 0.03 (1) | H-C   | -178 / 0    | 0.03 (1)     |       |
| B-J    | -83 / 0     | -91.8            | -91.8 0.01 (1) | C-G   | -21 / 0     | 0.00 (1)     |       |
| J-C    | -74 / 0     | -91.8            | -91.8 0.05 (1) | G-D   | -198 / 0    | 0.03 (1)     |       |
| C-D    | -30 / 0     | -91.8            | -91.8 0.18 (1) | I-J   | -121 / 0    | 0.00 (1)     |       |
| D-L    | -54 / 0     | -91.8            | -91.8 0.05 (1) | K-L   | -123 / 0    | 0.00 (1)     |       |
| L-E    | -41 / 0     | -91.8            | -91.8 0.01 (1) |       |             |              |       |
| E-F    | 0 / 15      | -91.8            | -91.8 0.03 (1) |       |             |              |       |
| B-I    | 0 / 80      | -18.5            | -18.5 0.08 (1) |       |             |              |       |
| I-H    | 0 / 80      | -18.5            | -18.5 0.08 (1) |       |             |              |       |
| H-G    | 0 / 48      | -18.5            | -18.5 0.03 (1) |       |             |              |       |
| G-K    | 0 / 43      | -18.5            | -18.5 0.08 (1) |       |             |              |       |
| K-E    | 0 / 43      | -18.5            | -18.5 0.08 (1) |       |             |              |       |

#### 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 = 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, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABC 2018  
- PART 9 OF NBC 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), BC=0.03/1.00 (B-I:1), WB=0.03/1.00 (D-G:1), SSI=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

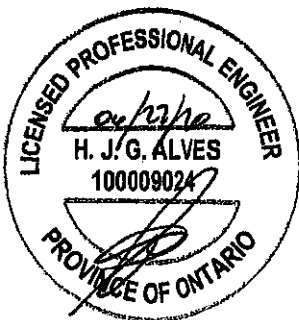
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

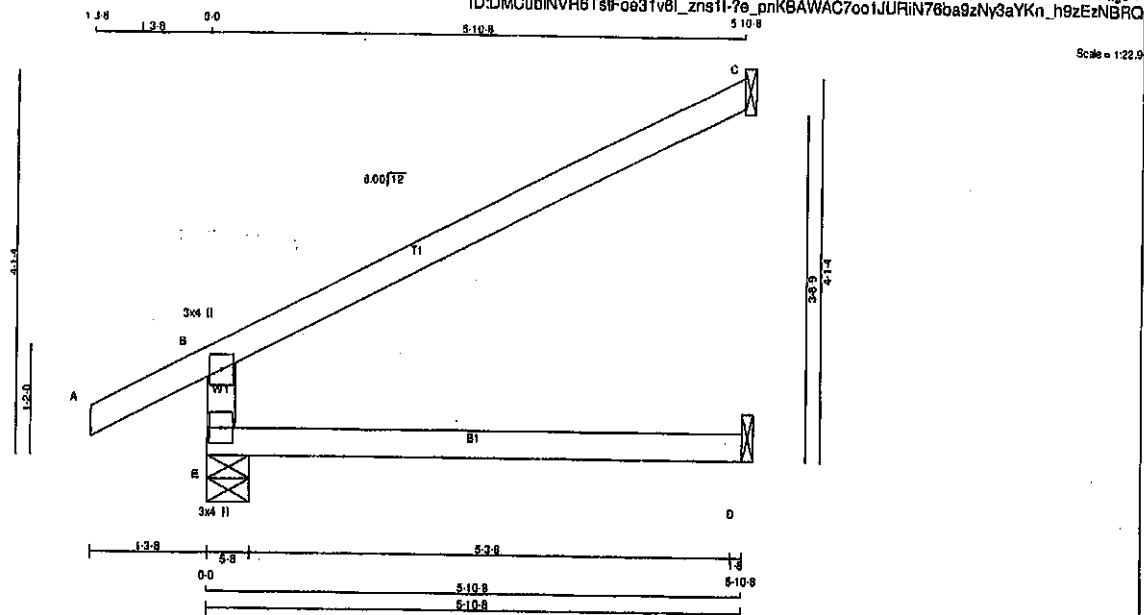
JSI GRIP= 0.18 (B) (INPUT = 0.90)  
JSI METAL= 0.04 (B) (INPUT = 1.00)



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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ID:DMCubINVR6TstF0a31v6l\_znsf11-7e\_onKBAWAC7001JURiN76ba9zNy3aYKn\_h9zEzNBRO



TOTAL WEIGHT = 19 X 17 = 319 lb

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

DRY: SEASONED LUMBER.

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

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

| BEARINGS |                | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|----------------|----------------|------------------|-------|------|
| JT       | GROSS REACTION | GROSS REACTION | DOWN             | UP    | 8RG  |
| E        | 525            | 0              | 525              | 0     | 5-8  |
| C        | 202            | 0              | 202              | 0     | 1-8  |
| D        | 45             | 0              | 50               | 0     | 1-8  |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | SNOW  | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
|----|-----------|-------|------|-----------|------|-------|------|
| E  | 369       | 267/0 | 0/0  | 0/0       | 0/0  | 111/0 | 0/0  |
| C  | 139       | 113/0 | 0/0  | 0/0       | 0/0  | 28/0  | 0/0  |
| D  | 38        | 0/0   | 0/0  | 0/0       | 0/0  | 38/0  | 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.  | FORCE (LBS) | VERT. LOAD | MAX. (PLF) | MEMB.    | FORCE (LBS) |
| FR-TO  |             | FROM       | 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 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) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.03")

CSK: TC=0.54/1.00 (B-C:1), BC=0.12/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SS=0.24/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PS) | SECTION (PL) |
|-----------------|------------|--------------|
| MAX MIN         | MAX MIN    | MAX MIN      |
| MT20            | 918 354    | 1887 788     |

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)

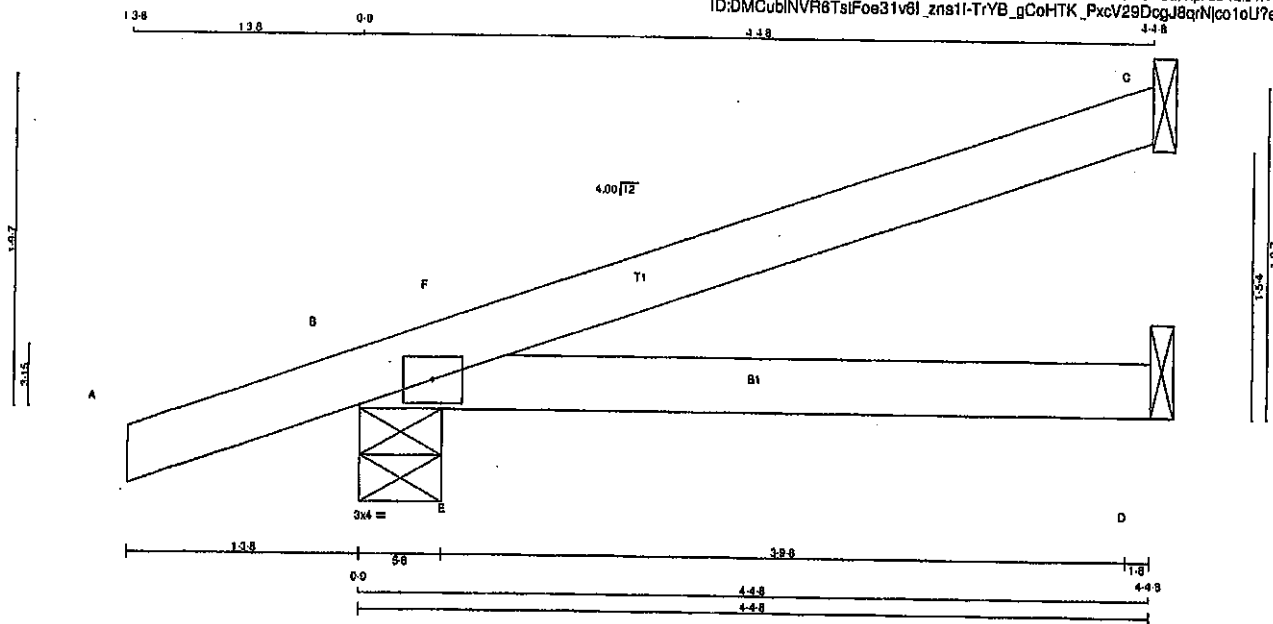


Structural component only  
DWG# T-2007126

|                                 |                  |               |          |                               |          |
|---------------------------------|------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408168              | TRUSS NAME<br>J2 | QUANTITY<br>8 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                  |               |          |                               |          |

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ID:DMCubINVR8TsIFoe31v8I\_zns1I-TrVB\_gCoHTK\_PxcV29DogJ8qrNjco1oU7eQjVhzNBRRP

Scale = 1:11.5



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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |        |     |     |   |   |
|--------------------------|--------|-----|-----|---|---|
| JT TYPE                  | PLATES | W   | LEN | Y | X |
| B TM81-I                 | MT20   | 3.0 | 4.0 |   |   |

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

| FACTORED |      | MAXIMUM FACTORED |                | INPUT |     | REQD  |       |
|----------|------|------------------|----------------|-------|-----|-------|-------|
| JT       | VERT | GROSS REACTION   | GROSS REACTION | BRG   | BRG | IN-SX | IN-SX |
| C        | 174  | 0                | 174            | 0     | 0   | 1-8   | 1-8   |
| B        | 384  | 0                | 384            | 0     | 0   | 5-8   | 5-8   |
| D        | 68   | 0                | 68             | 0     | 0   | 1-8   | 1-8   |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW  | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|----|----------|-------|------|-----------|------|------|------|
| C  | 120      | 93/0  | 0/0  | 0/0       | 0/0  | 27/0 | 0/0  |
| B  | 265      | 180/0 | 0/0  | 0/0       | 0/0  | 75/0 | 0/0  |
| D  | 50       | 19/0  | 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)

| CHORDS |             | FACTORED         |               | WEBS     |                     | MAX. FACTORED |             |
|--------|-------------|------------------|---------------|----------|---------------------|---------------|-------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LO1 MAX (PLF) | CS1 (LC) | UNBRAC LENGTH FR-TO | MEMB.         | FORCE (LBS) |
| FR-TO  |             |                  |               |          |                     | FR-TO         |             |
| A-B    | 0/16        | -91.8            | -91.8         | 0.11 (1) | 10.00               | E-F           | -194/7      |
| B-F    | -14/0       | -91.8            | -91.8         | 0.05 (4) | 8.25                |               |             |
| 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               |               |             |

TOTAL WEIGHT = 6 X 12 = 85 lb (M)

#### 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 CBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPO 2011, TPO 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) =  $L/999$  (0.02")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.18")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.05")

CS1: TO=0.22/1.00 (C-F:1), BC=0.17/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=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 | GRIP (DRY) | SHEAR | SECTION            |
|-------|------------|-------|--------------------|
| (PS)  | (PL)       | (PL)  | (PL)               |
| MAX   | MIN        | MAX   | MIN                |
| MT20  | 818        | 354   | 1667 788 1897 1856 |

PLATE PLACEMENT TOL. = 0.250 inches

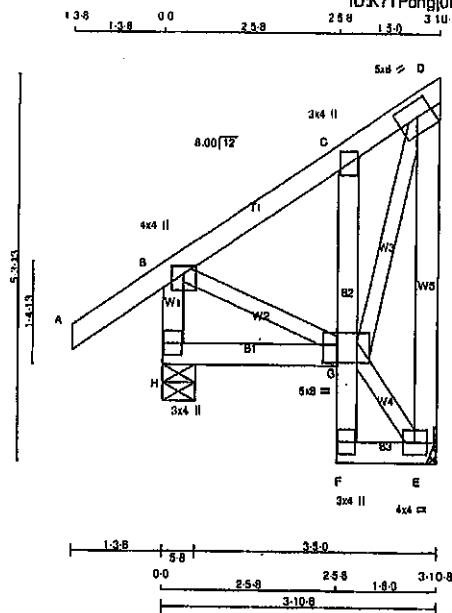
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.80)  
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                                                    |            |          |     |                  |          |
| Version 8.310 S Oct 29 2019 AMTek Industries, Inc. Sat Apr 25 12:49:21 2020 Page 1 |            |          |     |                  |          |
| ID:K7TPdngj0npl1qYcbWOFzIdG-I21k2YpvkxpY782wrSGIzIsV3rng3ZgbMdnLzNBD               |            |          |     |                  |          |
| Scale = 1/20.0                                                                     |            |          |     |                  |          |



| 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  | No.2   |

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.25 | 2.00 |
| C  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| D  | TMVW-t  | MT20   | 5.0 | 8.0 | 2.50 | 2.50 |
| E  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| F  | BMV+p   | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVW-t  | MT20   | 5.0 | 8.0 | 3.00 | 2.50 |
| H  | BMV-t+p | MT20   | 3.0 | 4.0 |      |      |

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

##### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG  |
|----|-------------------------|---------------------------------|-----------|------------|
| H  | 332                     | 0                               | 0         | 5-8        |
| E  | 206                     | 0                               | 0         | MECHANICAL |

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

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|-------------------------------|------------|-------|--------|-------|
| H  | 232       | 188 / 0                       | 0 / 0      | 0 / 0 | 88 / 0 | 0 / 0 |
| E  | 145       | 95 / 0                        | 0 / 0      | 0 / 0 | 50 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 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 |                           |                           |                       | WEBS  |                           |                       |          |
|--------|---------------------------|---------------------------|-----------------------|-------|---------------------------|-----------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 MAX CSI (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH                | FR-TO |                           |                       |          |
| H-B    | -307 / 0                  | 0.0                       | 0.0 0.03 (1)          | 7.81  | B-G                       | 0 / 83                | 0.02 (1) |
| A-B    | 0 / 35                    | -91.8                     | -91.8 0.14 (5)        | 10.00 | E-D                       | -184 / 0              | 0.05 (1) |
| B-C    | -83 / 0                   | -91.8                     | -91.8 0.07 (1)        | 6.25  | G-E                       | -14 / 0               | 0.00 (1) |
| C-D    | -100 / 0                  | -91.8                     | -91.8 0.08 (1)        | 6.25  | G-D                       | 0 / 220               | 0.05 (1) |
| H-G    | 0 / 0                     | -18.5                     | -18.5 0.04 (4)        | 10.00 |                           |                       |          |
| F-G    | 0 / 12                    | 0.0                       | 0.0 0.02 (1)          | 10.00 |                           |                       |          |
| G-C    | -218 / 0                  | 0.0                       | 0.0 0.02 (1)          | 7.81  |                           |                       |          |
| F-E    | 0 / 9                     | -18.5                     | -18.5 0.01 (4)        | 10.00 |                           |                       |          |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 29 = 86 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. 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 BCBC 2018, 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 26.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.19")  
CALCULATED VERT. DEFL. (LL) = L/998 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.19")  
CALCULATED VERT. DEFL. (TL) = L/998 (0.00")

CSI: TC=0.14/1.00 (A-B-5), BC=0.04/1.00 (G-H-4),  
WB=0.05/1.00 (D-E-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

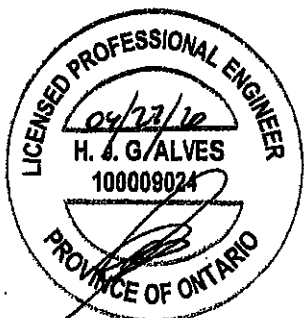
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1887 788 1887 1888

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.90)  
JSI METAL = 0.07 (C) (INPUT = 1.00)

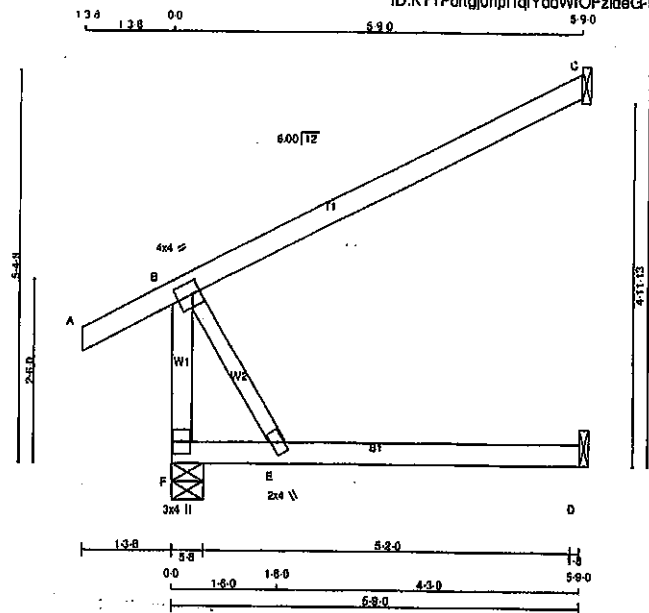


Structural component only  
DWG# T-2007143

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | J40        | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Sat Apr 26 13:02:14 2020 Page 1  
ID:K7TPdhgl0npl1qYdbWIOFzideG-9GFyHsAnIRCIWkchqYYGUjuVsSPHGLQM61Q2zNB1c

Scale = 1/2" = 1'-0"



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

| PLATES (table is in inches) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| JT TYPE                     |      |     |     |           |
| B TMVW-1                    | MT20 | 4.0 | 4.0 | 2.00 1.25 |
| E BMVW-1                    | MT20 | 2.0 | 4.0 |           |
| F BMVW-1                    | MT20 | 3.0 | 4.0 |           |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | DOWN                            | IN-SX     | IN-SX    |
| F        | 441                     | 0                               | 5.8       | 5.8      |
| C        | 284                     | 0                               | 1.8       | 1.8      |
| D        | 63                      | 0                               | 1.8       | 1.8      |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |
|----------------------|----------|---------|---------------------|
| JT                   | COMBINED | SNOW    | LIVE                |
| F                    | 310      | 217/0   | 0/0                 |
| C                    | 182      | 147/0   | 0/0                 |
| D                    | 43       | 0/0     | 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 | MAX. FACTORED | FACTORED             | WEBS  | MAX. FACTORED |
|--------|---------------|----------------------|-------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF)     | MEMB. | FORCE (LBS)   |
| FR-TO  |               | FROM TO              | FR-TO |               |
| F-B    | -388/0        | 0.0 0.0 0.05 (1)     | B-E   | 0/0 0.00 (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) |       |               |

#### 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 2016

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCC 2016, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/380 (0.19")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/380 (0.19")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.52/1.00 (B-C:1), BC=0.18/1.00 (D-E:4),  
WB=0.00/1.00 (B-E:1), SS=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 610 354 1667 785 1967 1666

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)



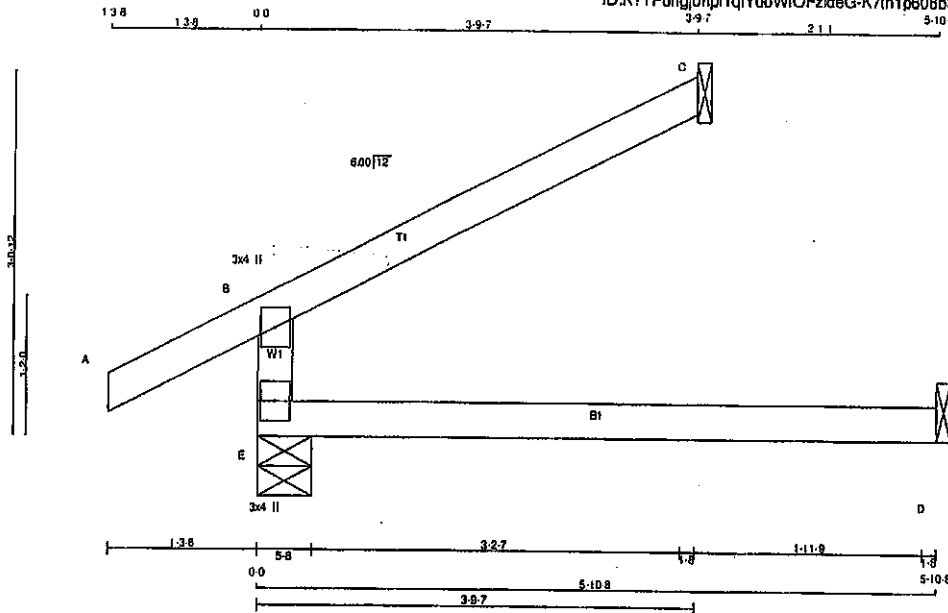
Structural component only  
DWG# T-2007167



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | C40        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:K?TPdhgJ0npl1qIYdbWfOFzdeG-K7h1p606bSjebITMQj8I?Emz4pp?ZnT2QjCOzNB1

Scale = 1:17.9



TOTAL WEIGHT = 3 X 14 = 42 lb

| LUMBER            |      |        |        |
|-------------------|------|--------|--------|
| N. L. G. A. RULES | SIZE | LUMBER | DESCR. |
| 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 |                | FACTORED       | MAXIMUM FACTORED | INPUT | REQD   |
|----------|----------------|----------------|------------------|-------|--------|
| JT       | GROSS REACTION | GROSS REACTION | DOWN             | HORIZ | UPLIFT |
| E        | 405            | 0              | 405              | 0     | 0      |
| C        | 130            | 0              | 130              | 0     | 0      |
| D        | 45             | 0              | 50               | 0     | 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                         |
| E                    | 288      | 190/0     | 0/0                          |
| C                    | 90       | 73/0      | 0/0                          |
| D                    | 36       | 0/0       | 0/0                          |

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

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

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

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

| CHORDS |                           |                           |                   | WEBS               |       |                           |               |
|--------|---------------------------|---------------------------|-------------------|--------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) |
| FR-TO  |                           | FROM                      | TO                |                    | 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)           | 6.25  |                           |               |
| E-D    | 0 / 0                     | -18.5                     | -18.5             | 0.13 (4)           | 10.00 |                           |               |

#### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 PSF  
DL = 6.0 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, NBCO 2010, NBCO 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 088-08, 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 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),  
WB=0.00/1.00 (N/A:0), 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

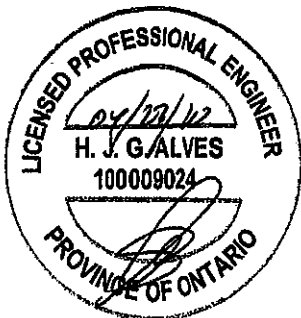
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 616 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

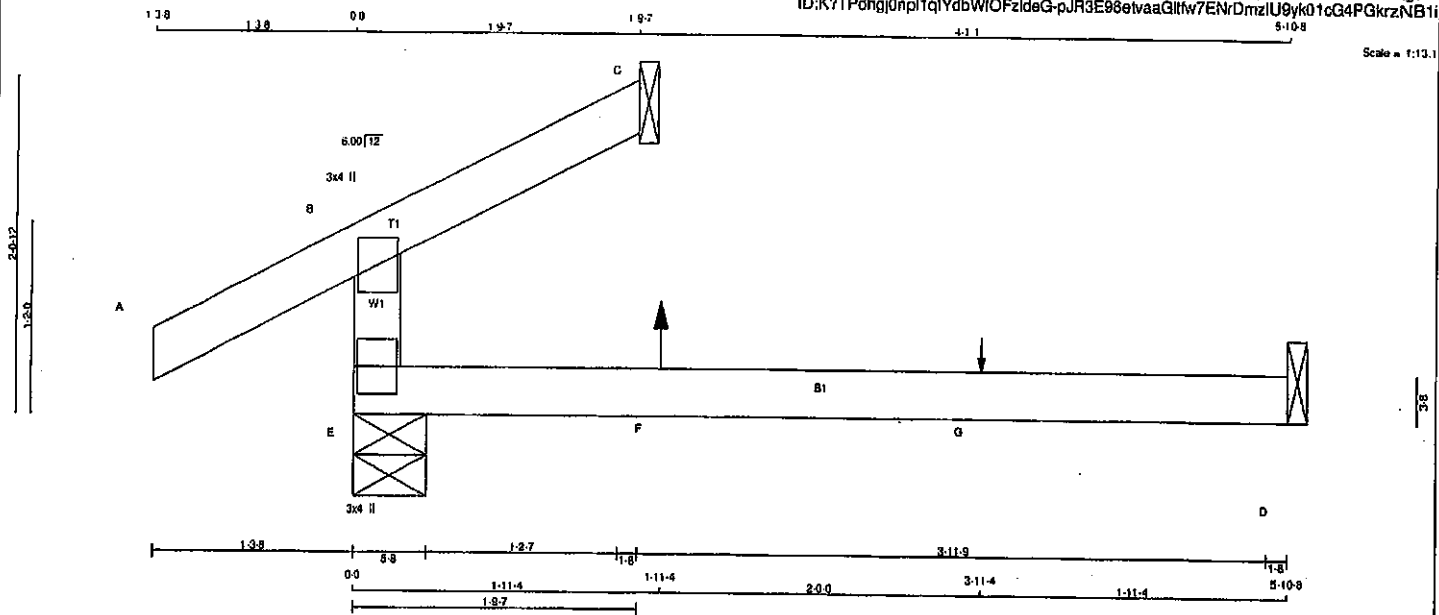
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.80 )  
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                                                    |            |          |     |                  |          |
| Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 13:02:09 2020 Page 1 |            |          |     |                  |          |
| ID:K7TPdngj0npl1qYdbWfOfzdeG-pJR3E98etvaaGlfw7ENrDmzlU9yk01cG4PGkrzNB1i            |            |          |     |                  |          |
| Scale = 1:13.1                                                                     |            |          |     |                  |          |



|                       |        |      |        |
|-----------------------|--------|------|--------|
| <b>LUMBER</b>         |        |      |        |
| 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. |        |      |        |

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX |       | REQD BRG IN-SX |       |
|----|-------------------------|------|---------------------------------|------|-----------------|-------|----------------|-------|
|    | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT          | IN-SX | IN-SX          | IN-SX |
| E  | 284                     | 0    | 284                             | 0    | 0               | 5-8   | 5-8            |       |
| C  | 63                      | 0    | 63                              | 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

| JT | UNFACTORED REACTIONS |          | MAX. MIN. COMPONENT REACTIONS |      | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------------------|----------|-------------------------------|------|------------|------|------|------|
|    | 1ST CASE             | 2ND CASE | SNOW                          | LIVE |            |      |      |      |
| E  | 200                  | 137/0    | 0/0                           | 0/0  | 0/0        | 0/0  | 62/0 | 0/0  |
| C  | 48                   | 21/0     | 0/0                           | 0/0  | 0/0        | 0/0  | 25/0 | 0/0  |
| D  | 35                   | 0/3      | 0/0                           | 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

| MEMB. | CHORDS                    |                           | WEBS                      |                           |
|-------|---------------------------|---------------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) |
| FR-TO |                           |                           |                           |                           |
| E-B   | -227/0                    | 0.0                       | 0.0                       | 0.11 (4)                  |
| A-B   | 0/28                      | -91.8                     | -91.8                     | 0.12 (1)                  |
| B-C   | -9/9                      | -91.8                     | -91.8                     | 0.08 (4)                  |
| E-F   | 0/0                       | -18.5                     | -18.5                     | 0.14 (4)                  |
| F-G   | 0/0                       | -18.5                     | -18.5                     | 0.14 (4)                  |
| G-D   | 0/0                       | -18.5                     | -18.5                     | 0.14 (4)                  |

| JT | FACTORED CONCENTRATED LOADS (LBS) |     | FACE | DIR. | TYPE      | HEEL | CONN. |
|----|-----------------------------------|-----|------|------|-----------|------|-------|
|    | LOC.                              | LC1 | MAX. | MAX+ | TOTAL     |      |       |
| F  | 1-11.4                            | 7   | 1    | 12   | BACK VERT | --   | C1    |
| G  | 3-11.4                            | 1   | 1    | --   | BACK VERT | --   | 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**

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 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.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) =  $L/999$  (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=0.88 NAIL=0.98 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

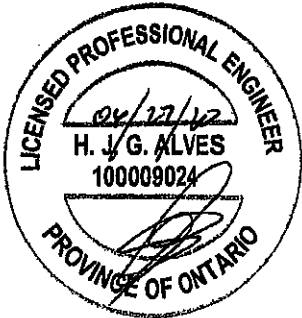
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1657 789 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.80)  
JSI METAL= 0.08 (B) (INPUT = 1.00)

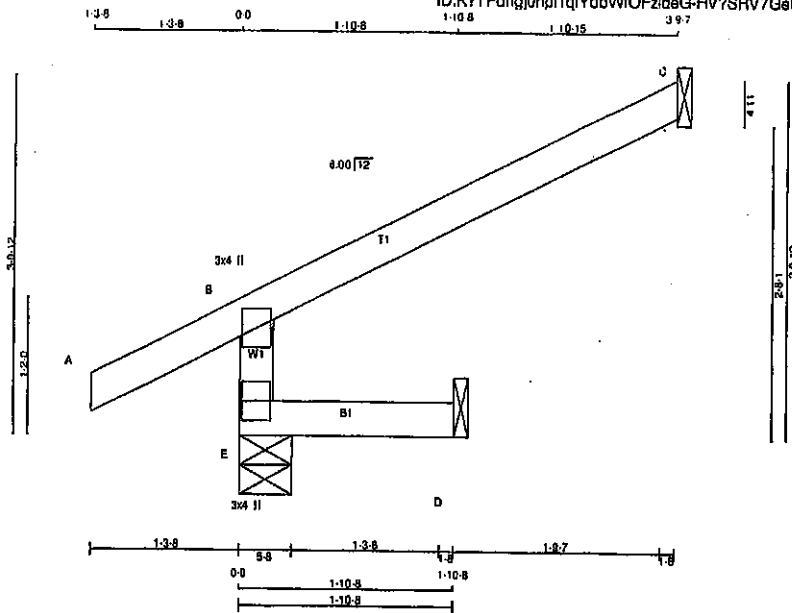


Structural component only  
DWG# T-2007163

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408170                          | C42        | 3        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:K7TPdhgJ0npl1qYdbWIOFzIdeG-HV7SRV7GeCIRuvRrTfrcNQJ6SuW4TTHmVh6pHHzNB1h

Scale = 1:16.2



TOTAL WEIGHT = 3 X 10 = 29 lb

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

DRY: SEASONED LUMBER.

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 | JT               | DOWN | IN-SX |  | IN-SX |  |
| E              | 381  | 381              | 0    | 5-8   |  | 5-8   |  |
| C              | 130  | 130              | 0    | 1-8   |  | 1-8   |  |
| D              | 16   | 17               | 0    | 1-8   |  | 1-8   |  |

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

| UNFACTORED REACTIONS |          | 1ST CASE |      | MAX/MIN. COMPONENT REACTIONS |      |      |      |
|----------------------|----------|----------|------|------------------------------|------|------|------|
| JT                   | COMBINED | SNOW     | LIVE | PERM. LIVE                   | WIND | DEAD | SOIL |
| E                    | 250      | 190/0    | 0/0  | 0/0                          | 0/0  | 80/0 | 0/0  |
| C                    | 90       | 73/0     | 0/0  | 0/0                          | 0/0  | 17/0 | 0/0  |
| D                    | 12       | 0/0      | 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 |                  | FACTORED         |               | WEBS  |                  | FACTORED      |  |
|--------|------------------|------------------|---------------|-------|------------------|---------------|--|
| MEMB.  | MAX. FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                  | FROM TO          |               | FR-TO |                  |               |  |
| E-B    | -342/0           | 0.0              | 0.0 (4)       | 7.81  |                  |               |  |
| A-B    | 0/28             | -91.8            | -91.8 (5)     | 10.00 |                  |               |  |
| B-C    | -19/0            | -91.8            | -91.8 (1)     | 6.25  |                  |               |  |
| E-D    | 0/0              | -18.5            | -18.5 (4)     | 10.00 |                  |               |  |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### 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 = 39.0 PSF

**SPACING = 24.0 IN. CG**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABO 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA 088-08, 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 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/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: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 610 354 1867 789 1997 1658

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

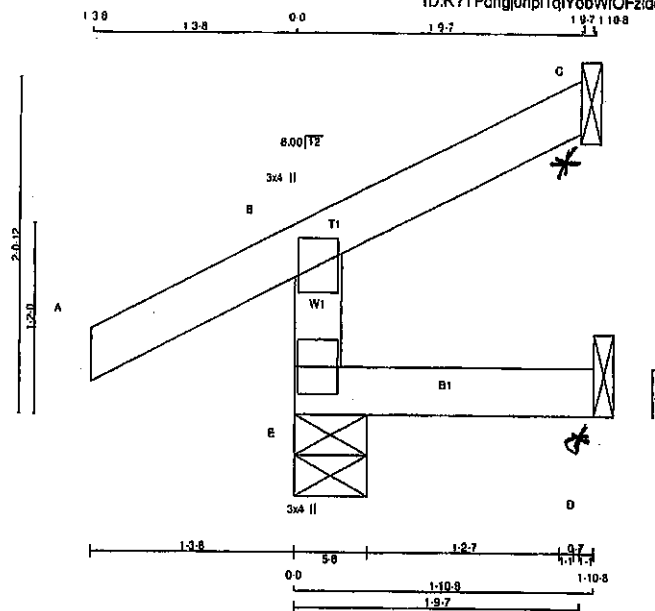
JSI GRIP = 0.14 (E) (INPUT = 0.90)  
JSI METAL = 0.09 (B) (INPUT = 1.00)



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. |     |                  |          |

Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 13:02:11 2020 Page 1  
ID:K?TPchgi0npl1qYdbWOFzIdeG-llZqf8uPWqV2011YHrweeJqIs\_CwXvkOuNpizNB1g



Scale = 1:13.1

| LUMBER            |        |      |
|-------------------|--------|------|
| N. L. G. A. RULES | CHORDS | SIZE |
| E - B             | 2x4    | DRY  |
| A - C             | 2x4    | DRY  |
| E - D             | 2x4    | DRY  |

DRY, SEASONED LUMBER.

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

DESCR.  
SPF  
SPF  
SPF

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

#### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| E  | 271                     | 0    | 271                             | 0    | 5-8       | 5-8      |
| C  | 45                      | 0    | 45                              | 0    | 1-8       | 1-8      |
| D  | 8                       | 0    | 17                              | 0    | 1-8       | 1-8      |

\* SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 160 LBS. FACTORED UPLIFT

PROVIDE ANCHORAGE AT BEARING JOINT D FOR 160 LBS. FACTORED UPLIFT

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |       |            |       |        |       |
|-----------|----------|-------------------------------|-------|------------|-------|--------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
| E         | 188      | 141 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 47 / 0 | 0 / 0 |
| C         | 31       | 24 / -18                      | 0 / 0 | 0 / 0      | 0 / 0 | 7 / 0  | 0 / 0 |
| D         | 7        | 0 / -8                        | 0 / 0 | 0 / 0      | 0 / 0 | 12 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| MEMB. | CHORDS           |                 | FACTORED      |                    | WEBS              |               | FACTORED         |               |
|-------|------------------|-----------------|---------------|--------------------|-------------------|---------------|------------------|---------------|
|       | MAX. FORCE (LBS) | VERT. LOAD (PL) | MAX. CSI (LC) | MAX. UNBRAC LENGTH | MEMB. FORCE (LBS) | MAX. CSI (LC) | MAX. FORCE (LBS) | MAX. CSI (LC) |
| FR-TO |                  |                 |               |                    |                   |               |                  |               |
| E-B   | -244 / 0         | 0.0             | 0.0           | 0.04 (5)           | 7.81              |               |                  |               |
| A-B   | 0 / 28           | -91.8           | -91.8         | 0.12 (1)           | 10.00             |               |                  |               |
| B-C   | -17 / 0          | -91.8           | -91.8         | 0.09 (1)           | 6.25              |               |                  |               |
| E-D   | 0 / 0            | -18.5           | -18.5         | 0.04 (5)           | 10.00             |               |                  |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 7 = 21 lb (M)

#### 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 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) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL. (LL) =  $L/899$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),  
WB=0.03/1.00 (n/a:0), SS=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 (PL) | SECTION (PL) |
|------------------|------------|--------------|
| (PS)             | (PL)       | (PL)         |
| MAX MIN          | MAX MIN    | MAX MIN      |
| MT20             | 618 354    | 1667 789     |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.80)  
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 and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

**Material:** See table on pp. 258–259.

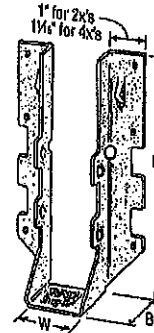
**Finish:** Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 20–24.

### Installation:

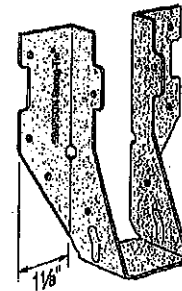
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for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

### Options:

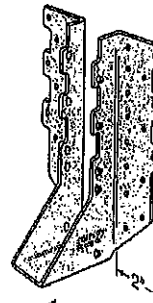
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options Information on p. 126.



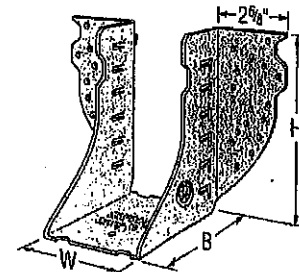
**LUS28**



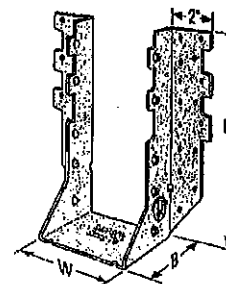
**LU28L**



**HUS210**  
(HUS26, HUS28, and HHUS similar)



**HGUS28-2**



**HHUS210-2**



Double-Shear Nailing Top View

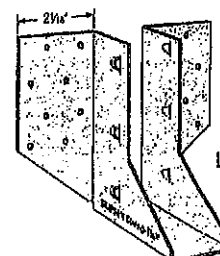
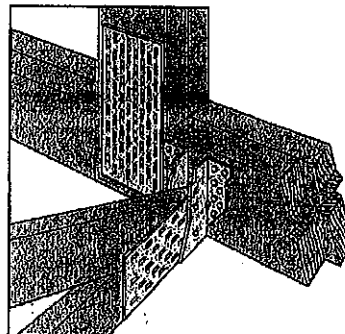


Double-Shear Nailing Side View; Do not bend tab



Double-Shear Nailing Side View (available on some models)  
U.S. Patent 5,603,680

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



**LJS28DS**

Plated Truss Connectors

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

## HHUS/HGUS

See Hanger Options information on pp. 125–127.

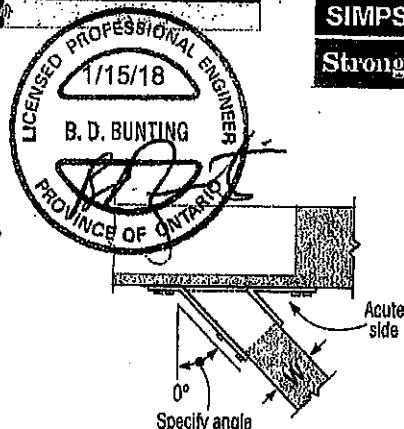
## HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

## HGUS — Skewed Seat

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

| HGUS Seat Width | Joist               | Down Resistance     | Uplift              |
|-----------------|---------------------|---------------------|---------------------|
| $W < 2"$        | Bevel or square cut | 0.82 of table value | 0.46 of table value |
| $2" < W < 6"$   | Bevel cut           | 0.87 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)<br>lb.<br>kN | (K <sub>D</sub> = 1.00)<br>lb.<br>kN | (K <sub>D</sub> = 1.15)<br>lb.<br>kN | (K <sub>D</sub> = 1.00)<br>lb.<br>kN |
| Single 2x Sizes |     |                  |       |       |                             |           |                  |                                      |                                      |                                      |                                      |
| LUS24           | 18  | 1 1/8            | 3 1/4 | 1 1/4 | 2 1/4                       | (4) 10d   | (2) 10d          | 710<br>3.16                          | 1626<br>7.23                         | 645<br>2.87                          | 1155<br>5.14                         |
| LU24L           | 22  | 1 1/8            | 3     | 1 1/4 | 2 1/8                       | (4) 10d   | (2) 10d x 1 1/2" | 360<br>1.60                          | 1020<br>4.54                         | 320<br>1.42                          | 725<br>3.22                          |
| LU26L           | 22  | 1 1/8            | 5     | 1 1/4 | 4 1/4                       | (6) 10d   | (4) 10d x 1 1/2" | 720<br>3.20                          | 1605<br>7.14                         | 645<br>2.87                          | 1140<br>5.07                         |
| LUS26           | 18  | 1 1/8            | 4 1/4 | 1 1/4 | 3 3/4                       | (4) 10d   | (4) 10d          | 1420<br>6.32                         | 2170<br>9.65                         | 1290<br>5.74                         | 1830<br>7.25                         |
| HUS26           | 16  | 1 1/8            | 5 1/4 | 3     | 3 1/8                       | (14) 16d  | (6) 16d          | 2705<br>11.80                        | 4940<br>21.97                        | 2065<br>9.20                         | 3875<br>17.24                        |
| LJS26DS         | 18  | 1 1/8            | 5     | 3 1/2 | 4 1/4                       | (16) 16d  | (6) 16d          | 2055<br>9.14                         | 4265<br>18.97                        | 1480<br>6.49                         | 4115<br>18.31                        |
| HGUS26          | 12  | 1 1/8            | 5 1/4 | 5     | 4 1/4                       | (20) 16d  | (8) 16d          | 2685<br>11.98                        | 6826<br>29.51                        | 2685<br>11.98                        | 5700<br>25.35                        |
| LU28L           | 20  | 1 1/8            | 6 1/4 | 1 1/4 | 5 1/4                       | (8) 10d   | (6) 10d x 1 1/2" | 1140<br>5.07                         | 2185<br>9.72                         | 1020<br>4.54                         | 1550<br>6.89                         |
| LUS28           | 18  | 1 1/8            | 6 1/4 | 1 1/4 | 3 3/4                       | (8) 10d   | (4) 10d          | 1420<br>6.32                         | 2520<br>11.21                        | 1290<br>5.74                         | 1790<br>7.98                         |
| HUS28           | 16  | 1 1/8            | 7 1/4 | 3     | 6 1/8                       | (22) 16d  | (8) 16d          | 3805<br>16.04                        | 5365<br>23.86                        | 2675<br>11.90                        | 4345<br>19.33                        |
| HGUS28          | 12  | 1 1/8            | 7 1/4 | 5     | 6 1/4                       | (36) 16d  | (12) 16d         | 3310<br>14.74                        | 7675<br>34.19                        | 3310<br>14.74                        | 6900<br>30.73                        |
| LU210L          | 20  | 1 1/8            | 8     | 1 1/4 | 7 1/4                       | (10) 10d  | (8) 10d x 1 1/2" | 1140<br>5.07                         | 2495<br>11.10                        | 1020<br>4.54                         | 1770<br>7.87                         |
| LUS210          | 18  | 1 1/8            | 7 1/4 | 1 1/4 | 3 3/4                       | (8) 10d   | (4) 10d          | 1420<br>6.32                         | 2785<br>12.39                        | 1280<br>5.74                         | 2210<br>9.83                         |

1. Factored uplift resistances have been increased 16% 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.  $d_g$  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-N10TRSSON and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 3/4" 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>e</sub> <sup>1</sup> | Header    | Joist    | D.Fir-L                 |                         | S-P-F                   |                         |
|                    |     |                  |        |   |                             |           |          | Uplift                  | Normal                  | Uplift                  | Normal                  |
|                    |     |                  |        |   |                             |           |          | (K <sub>G</sub> = 1.15) | (K <sub>G</sub> = 1.00) | (K <sub>G</sub> = 1.15) | (K <sub>G</sub> = 1.00) |
|                    |     |                  |        |   |                             |           |          | lb.                     | lb.                     | lb.                     | lb.                     |
|                    |     |                  |        |   |                             |           |          | kN                      | kN                      | kN                      | kN                      |
| Double 2x Sizes    |     |                  |        |   |                             |           |          |                         |                         |                         |                         |
| LUS24-2            | 18  | 3 1/8            | 3 1/8  | 2 | 1 1/2                       | (4) 16d   | (2) 16d  | 835                     | 2020                    | 590                     | 1435                    |
| SS LUS26-2         | 18  | 3 1/8            | 4 1/8  | 2 | 4                           | (4) 16d   | (4) 16d  | 3,71                    | 8,88                    | 2,62                    | 6,38                    |
| HHUS28-2           | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8                       | (14) 16d  | (8) 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                    | 8,64                    |
| SS LUS28-2         | 18  | 3 1/8            | 7      | 2 | 4                           | (8) 16d   | (4) 16d  | 2850                    | 7335                    | 2065                    | 5205                    |
| HHUS28-2           | 14  | 3 1/8            | 7 1/8  | 3 | 8 1/8                       | (22) 16d  | (8) 16d  | 12,68                   | 32,63                   | 9,20                    | 23,15                   |
| HGUS28-2           | 12  | 3 1/8            | 7 1/8  | 4 | 8 1/8                       | (30) 16d  | (12) 16d | 4385                    | 8950                    | 3110                    | 6355                    |
| SS LUS210-2        | 18  | 3 1/8            | 9      | 2 | 6                           | (8) 16d   | (8) 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                    | 2675                    |
| HGUS210-2          | 12  | 3 1/8            | 9 1/8  | 4 | 8 1/8                       | (48) 16d  | (16) 16d | 7,65                    | 14,79                   | 6,87                    | 11,45                   |
|                    |     |                  |        |   |                             |           |          | 3765                    | 8940                    | 2675                    | 6345                    |
|                    |     |                  |        |   |                             |           |          | 18,75                   | 39,77                   | 11,90                   | 28,22                   |
|                    |     |                  |        |   |                             |           |          | 6070                    | 12980                   | 4310                    | 9215                    |
|                    |     |                  |        |   |                             |           |          | 27,00                   | 57,74                   | 19,17                   | 40,99                   |
| SS LUS210-2        | 18  | 3 1/8            | 9      | 2 | 6                           | (8) 16d   | (8) 16d  | 2580                    | 4500                    | 2320                    | 3195                    |
| HHUS210-2          | 14  | 3 1/8            | 9 1/8  | 3 | 8                           | (30) 16d  | (10) 16d | 11,48                   | 20,02                   | 10,32                   | 14,21                   |
| HGUS210-2          | 12  | 3 1/8            | 9 1/8  | 4 | 8 1/8                       | (48) 16d  | (16) 16d | 4670                    | 9680                    | 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) 16d  | (8) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
|                    |     |                  |        |   |                             |           |          | 19,51                   | 39,81                   | 13,83                   | 28,27                   |
| HGUS28-3           | 12  | 4 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
|                    |     |                  |        |   |                             |           |          | 27,00                   | 57,74                   | 19,17                   | 40,99                   |
| HHUS210-3          | 14  | 4 1/8            | 9      | 3 | 7 1/8                       | (30) 16d  | (10) 16d | 4670                    | 9670                    | 4235                    | 6865                    |
|                    |     |                  |        |   |                             |           |          | 20,77                   | 43,02                   | 18,84                   | 30,54                   |
| HGUS210-3          | 12  | 4 1/8            | 9 1/8  | 4 | 8 1/8                       | (48) 16d  | (16) 16d | 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                    |
|                    |     |                  |        |   |                             |           |          | 19,51                   | 39,81                   | 13,83                   | 28,27                   |
| HGUS28-4           | 12  | 6 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                    | 12980                   | 4310                    | 9215                    |
|                    |     |                  |        |   |                             |           |          | 27,00                   | 57,74                   | 19,17                   | 40,99                   |
| HHUS210-4          | 14  | 6 1/8            | 8 1/8  | 3 | 7 1/8                       | (30) 16d  | (10) 16d | 4670                    | 10155                   | 4235                    | 7210                    |
|                    |     |                  |        |   |                             |           |          | 20,77                   | 45,17                   | 18,84                   | 32,07                   |
| HGUS210-4          | 12  | 6 1/8            | 8 1/8  | 4 | 8 1/8                       | (48) 16d  | (16) 16d | 6840                    | 14645                   | 4855                    | 10400                   |
|                    |     |                  |        |   |                             |           |          | 30,43                   | 65,14                   | 21,60                   | 46,28                   |
| HGUS212-4          | 12  | 6 1/8            | 10 1/8 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 7640                    | 14995                   | 5425                    | 10845                   |
|                    |     |                  |        |   |                             |           |          | 33,98                   | 66,70                   | 24,13                   | 47,35                   |
| HGUS214-4          | 12  | 6 1/8            | 12 1/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 10130                   | 16400                   | 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) 16d  | 1720                    | 2595                    | 1545                    | 1920                    |
| SS HHUS46          | 14  | 3 1/8            | 5 1/8  | 3 | 3 1/8                       | (14) 16d  | (8) 16d  | 7,65                    | 11,54                   | 6,87                    | 8,64                    |
| HGUS46             | 12  | 3 1/8            | 5 1/8  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 2540                    | 7335                    | 2065                    | 5205                    |
|                    |     |                  |        |   |                             |           |          | 11,30                   | 32,63                   | 9,20                    | 23,15                   |
| LUS48              | 18  | 3 1/8            | 6 1/8  | 2 | 3 1/8                       | (6) 16d   | (4) 16d  | 4385                    | 8950                    | 3110                    | 6355                    |
| SS HHUS48          | 14  | 3 1/8            | 7 1/8  | 3 | 6 1/8                       | (22) 16d  | (8) 16d  | 19,51                   | 39,81                   | 13,83                   | 28,27                   |
| HGUS48             | 12  | 3 1/8            | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 1720                    | 3325                    | 1545                    | 2675                    |
|                    |     |                  |        |   |                             |           |          | 7,65                    | 14,79                   | 6,87                    | 11,45                   |
|                    |     |                  |        |   |                             |           |          | 3765                    | 8940                    | 2675                    | 6345                    |
|                    |     |                  |        |   |                             |           |          | 18,75                   | 39,77                   | 11,90                   | 28,22                   |
|                    |     |                  |        |   |                             |           |          | 6070                    | 12980                   | 4310                    | 9215                    |
|                    |     |                  |        |   |                             |           |          | 27,00                   | 57,74                   | 19,17                   | 40,99                   |
| LUS410             | 18  | 3 1/8            | 8 1/8  | 2 | 5 1/8                       | (8) 16d   | (6) 16d  | 2580                    | 4500                    | 2320                    | 3195                    |
| SS HGUS410         | 12  | 3 1/8            | 9      | 4 | 8 1/8                       | (48) 16d  | (16) 16d | 11,48                   | 20,02                   | 10,32                   | 14,21                   |
| HGUS412            | 12  | 3 1/8            | 10 1/8 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 6840                    | 14015                   | 4855                    | 10270                   |
|                    |     |                  |        |   |                             |           |          | 30,43                   | 62,34                   | 21,60                   | 45,69                   |
| HGUS414            | 12  | 3 1/8            | 12 1/8 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 7640                    | 14995                   | 5425                    | 10845                   |
|                    |     |                  |        |   |                             |           |          | 33,98                   | 66,70                   | 24,13                   | 47,35                   |
|                    |     |                  |        |   |                             |           |          | 10130                   | 16400                   | 7195                    | 11645                   |
|                    |     |                  |        |   |                             |           |          | 45,08                   | 72,95                   | 32,00                   | 51,80                   |



Plated Truss Connectors

See footnotes  
on p. 268.

## TC – Truss Connectors

**SIMPSON**

**Strong-Tie**

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 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

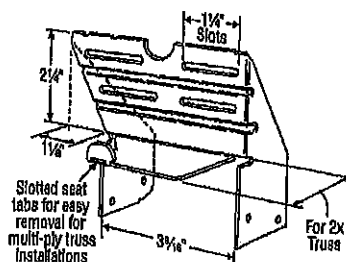
**Design:** Factored resistances are in accordance with CSA 086-14

### 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 end 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.

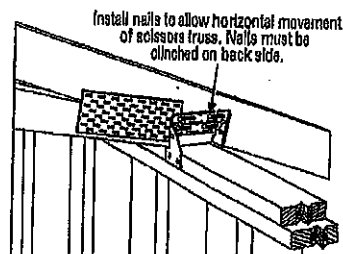
### Optional TC Installation:

- 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.

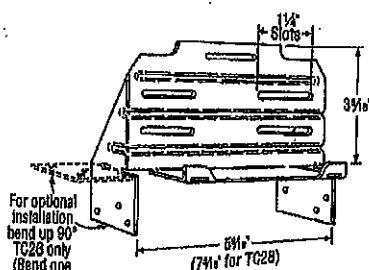


**TC24**

U.S. Patent 4,932,173

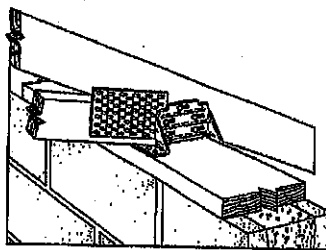


**Typical TC24 Installation**

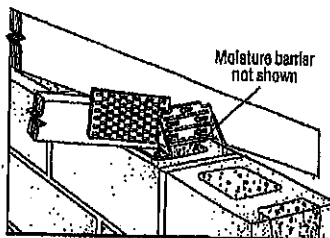


**TC26**

(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>p</sub> =1.15)<br>lb. | Uplift<br>(K <sub>p</sub> =1.15)<br>lb. |
| TC24      | (4) 10d   | (4) 10d     | 605                                     | 430                                     |
| TC26      | (6) 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>p</sub> =1.15)<br>lb. | Uplift<br>(K <sub>p</sub> =1.15)<br>lb. |
| 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) - 3/8" x 2 1/4" Titen screws has a factored uplift resistance of 275 lb.



(800) 999-5099  
strongtie.com



# H/TSP

## 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 (Kp = 1.15) |                |                |        |                |                |
|----------------------|-----|----------------------|------------------|-----------------|---------------------------------|----------------|----------------|--------|----------------|----------------|
|                      |     |                      |                  |                 | D.Fir-L                         |                |                | S-P-F  |                |                |
|                      |     | To Rafters/<br>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  | (8) 8d x 1 1/2"      | (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 1 1/2"      | (2) 8d x 1 1/2"  | (5) 8d x 1 1/2" | 830                             | 220            | 75             | 590    | 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            | 765    | 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 H8                | 18  | (4) 8d               | (4) 8d           | —               | 740                             | 180            | 265            | 615    | 125            | 190            |
|                      |     |                      |                  |                 | 3.29                            | 0.80           | 1.18           | 2.74   | 0.56           | 0.85           |
| 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            | —              | 980    | 475            | —              |
|                      |     |                      |                  |                 | 6.18                            | 2.98           | —              | 4.40   | 2.11           | —              |
| SS H8 <sup>3</sup>   | 18  | (5) 10d x 1 1/2"     | (5) 10d x 1 1/2" | —               | 1120                            | —              | —              | 1025   | —              | —              |
|                      |     |                      |                  |                 | 4.98                            | —              | —              | 4.58   | —              | —              |
| SS H10A <sup>9</sup> | 18  | (9) 10d x 1 1/2"     | (9) 10d x 1 1/2" | —               | 1735                            | 795            | 410            | 1505   | 565            | 290            |
|                      |     |                      |                  |                 | 7.72                            | 3.54           | 1.82           | 6.69   | 2.51           | 1.29           |
| H10AR                | 18  | (9) 10d x 1 1/2"     | (9) 10d x 1 1/2" | —               | 1485                            | 690            | 430            | 1220   | 570            | 305            |
|                      |     |                      |                  |                 | 6.61                            | 3.07           | 1.91           | 5.43   | 2.54           | 1.36           |
| H10A-2               | 18  | (9) 10d x 1 1/2"     | (9) 10d x 1 1/2" | —               | 1835                            | 1275           | 430            | 1645   | 880            | 305            |
|                      |     |                      |                  |                 | 8.10                            | 5.67           | 1.91           | 7.32   | 3.91           | 1.36           |
| H10S <sup>7,8</sup>  | 18  | (8) 8d x 1 1/2"      | (8) 8d x 1 1/2"  | (8) 8d          | 1465                            | 795            | 315            | 1040   | 585            | 225            |
|                      |     |                      |                  |                 | 6.52                            | 3.54           | 1.40           | 4.63   | 2.51           | 1.00           |
| H11Z                 | 18  | (6) 16d x 2 1/4"     | (6) 16d x 2 1/4" | —               | 1095                            | 920            | 545            | 780    | 655            | 390            |
|                      |     |                      |                  |                 | 4.87                            | 4.09           | 2.42           | 3.47   | 2.91           | 1.73           |
| H14                  | 18  | ① (12) 8d x 1 1/2"   | (13) 8d          | —               | 2390                            | 865            | 320            | 1805   | 610            | 230            |
|                      |     |                      |                  |                 | 10.63                           | 3.80           | 1.42           | 8.03   | 2.71           | 1.02           |
|                      |     | ② (12) 8d x 1 1/2"   | (15) 8d          | —               | 2390                            | 865            | 320            | 1805   | 610            | 230            |
|                      |     |                      |                  |                 | 10.63                           | 3.80           | 1.42           | 8.03   | 2.71           | 1.02           |
| TSP                  | 18  | (9) 10d x 1 1/2"     | (6) 10d x 1 1/2" | —               | 1295                            | 440            | —              | 920    | 310            | —              |
|                      |     |                      |                  |                 | 5.76                            | 1.96           | —              | 4.09   | 1.38           | —              |
|                      |     | (9) 10d x 1 1/2"     | (6) 10d          | —               | 1580                            | 440            | —              | 1105   | 310            | —              |
|                      |     |                      |                  |                 | 6.94                            | 1.96           | —              | 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 2 1/2" 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. (2.85 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 the wall must be on the same side of the wall (see technical bulletin T-HTECONPATH).
- 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 6/12. 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-SSNALS 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 1 1/2" nails into the top plates and (3) 8d x 1 1/2" nails into the lowest three flange holes into the truss bottom chord is 495 lb. (2.20 kN).
- Nails: 16d x 2 1/4" = 0.162" dia. x 2 1/2" long, 10d = 0.148" dia. x 3" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long, 8d = 0.131" dia. x 2 1/2" long, 8d x 1 1/2" = 0.131" dia. x 1 1/2" long. See pp. 27-28 for other nail sizes and information.

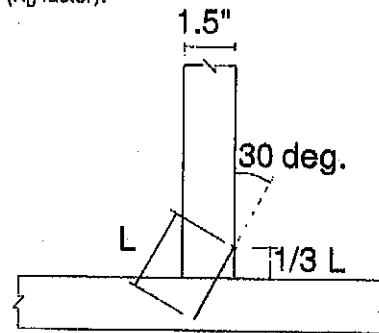
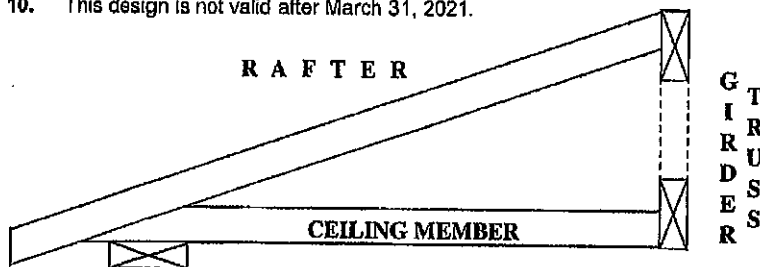
# BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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             |

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Bradford, Ontario L3Z 3G7

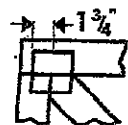
December 2, 2019

PEO  
Certificate No. 10889485

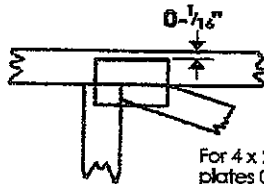


## Symbols

### 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

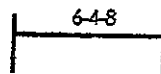


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

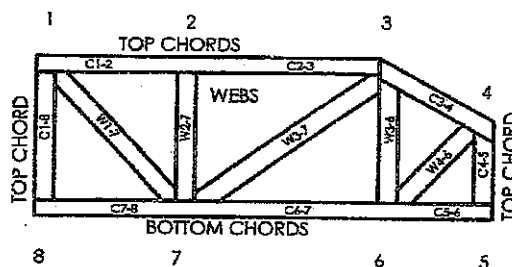
### Industry Standards:

- 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



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: MIT-7473C rev. 10-08

## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

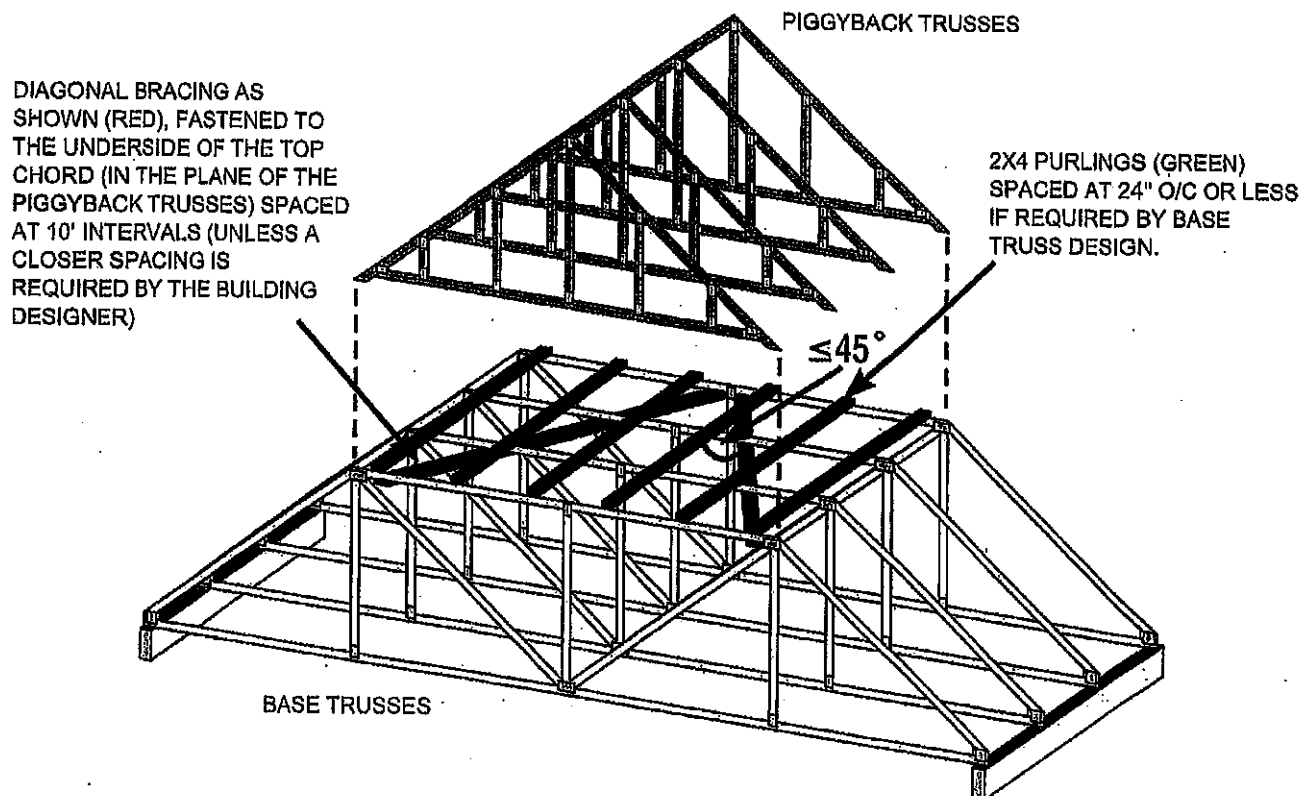
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See 8CSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
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 ovetop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

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

Detail:

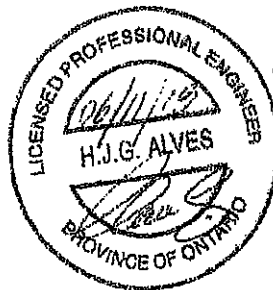


NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

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



## Alves Engineering Services Inc.

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### RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the 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 Mitek sheet M117473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900215

Feb 09, 2018