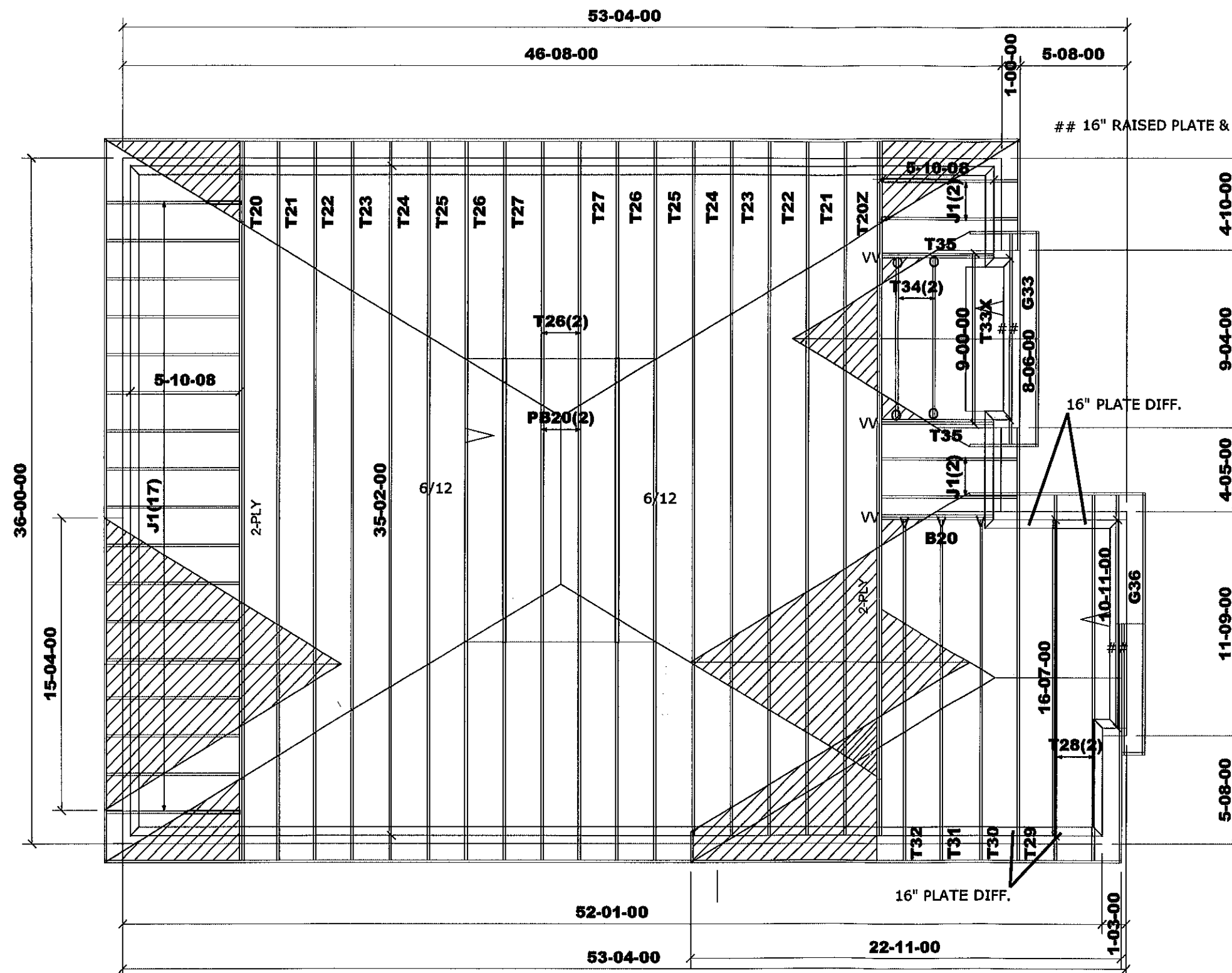


10/12 roof pitch unless noted



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)

LUS26-2-(VV)

CITY OF HAMILTON  
Building Division

Permit No. 21-107102

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

FOR THE BUILDING OFFICIAL DATE

BEAMS:

B20 = 2 - 2x10 SPF #2

 DENOTES:  
CONVENTIONAL  
FRAMING

NO CHANGE TO TRUSSES  
SAME AS STANDARD

DEC.2/20  
ND.



Job Track: 51225

Plan Log: 202401

Layout ID: 408151

Builder / Location:

GREEN PARK HOMES / WATERDOWN

Project: RUSSELL GARDENS PH.3

Date: 2020-12-08

Sales: Mario DiCano

Designer: JG/ND

Model / Elevation:

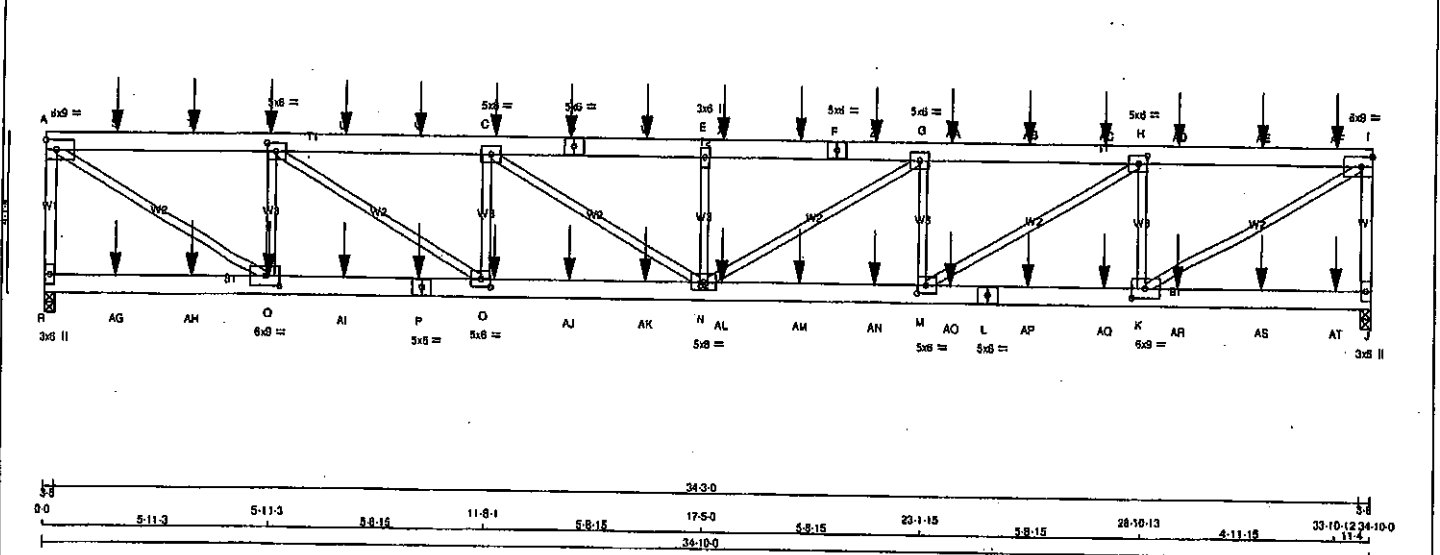
MOUNTAINASH 4-321/2-STD OR OPT

Mike ver 8.3.3.247

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408150</b>       | TRUSS NAME<br><b>T1</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 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 11:02:47 2020 Page 1  
 ID:3v7f7aG0E03cRUj6X1JSrk2WYK-VShX5DRAXNen15LAM\_IsZu8zCRhpKACNpVGMzNcnc  
 Scale = 1:34.4



| LUMBER | N. L. G. A. RULES | SIZE | DRY  | LUMBER | DESCR. |
|--------|-------------------|------|------|--------|--------|
| CHORDS |                   |      |      |        |        |
| R - A  | 2x4               | DRY  | No.2 | SPF    |        |
| A - D  | 2x6               | DRY  | No.2 | SPF    |        |
| D - F  | 2x6               | DRY  | No.2 | SPF    |        |
| F - I  | 2x4               | DRY  | No.2 | SPF    |        |
| J - L  | 2x4               | DRY  | No.2 | SPF    |        |
| R - P  | 2x6               | DRY  | No.2 | SPF    |        |
| P - L  | 2x6               | DRY  | No.2 | SPF    |        |
| L - J  | 2x6               | DRY  | No.2 | SPF    |        |

ALL WEBS 2x3 DRY  
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    |                      |             |
| R-A 1                                    | 12                   | TOP         |
| I-J 1                                    | 12                   | TOP         |
| A-D 2                                    | 12                   | SIDE(183.1) |
| D-F 2                                    | 12                   | SIDE(0.0)   |
| F-I 2                                    | 12                   | SIDE(0.0)   |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| R-P 2                                    | 12                   | SIDE(183.1) |
| P-L 2                                    | 12                   | SIDE(183.1) |
| L-J 2                                    | 12                   | SIDE(0.0)   |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT                    | DOWN                            | UPLIFT    | IN-SX     |
| R        | 3052 0                  | 3052 0                          | 3-8       | 3-8       |
| J        | 3118 0                  | 3118 0                          | 3-8       | 3-8       |

UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX/MIN. COMPONENT REACTIONS | WIND  | DEAD      | SOIL    |
|----|-----------|------------------------------|-------|-----------|---------|
| R  | COMBINED  | SNOW                         | LIVE  | PERM.LIVE |         |
| R  | 2181      | 1401 / 0                     | 0 / 0 | 0 / 0     | 781 / 0 |
| J  | 2209      | 1430 / 0                     | 0 / 0 | 0 / 0     | 778 / 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 = 4.25 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 MEMB. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) | MAX. UNBRACED LENGTH (FT) | WEBS  | MAX. FACTORED MEMB. FORCE (LBS) | MAX. CS (LC) |
|--------|---------------------------------|---------------------------|--------------|---------------------------|-------|---------------------------------|--------------|
| FR-TO  |                                 | FROM                      | TO           |                           | FR-TO |                                 |              |
| R-A    | -2974 / 0                       | 0.0                       | 0.0          | 0.34 (1)                  | K-I   | 0 / 5083                        | 0.83 (1)     |
| A-S    | -4328 / 0                       | -91.8                     | -91.8        | 0.20 (1)                  | A-Q   | 0 / 5078                        | 0.83 (1)     |
| S-T    | -4328 / 0                       | -91.8                     | -91.8        | 0.20 (1)                  | K-H   | -2485 / 0                       | 0.30 (1)     |
| T-B    | -4328 / 0                       | -91.8                     | -91.8        | 0.20 (1)                  | Q-B   | -2483 / 0                       | 0.29 (1)     |
| B-U    | -6896 / 0                       | -91.8                     | -91.8        | 0.25 (1)                  | M-H   | 0 / 2804                        | 0.35 (1)     |
| U-V    | -6896 / 0                       | -91.8                     | -91.8        | 0.25 (1)                  | B-O   | 0 / 2808                        | 0.35 (1)     |
| V-C    | -6896 / 0                       | -91.8                     | -91.8        | 0.25 (1)                  | M-G   | -1325 / 0                       | 0.16 (1)     |
| C-D    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  | O-C   | -1326 / 0                       | 0.16 (1)     |
| D-W    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  | N-G   | 0 / 958                         | 0.12 (1)     |
| W-E    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  | C-N   | 0 / 958                         | 0.12 (1)     |
| E-X    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  | N-E   | -851 / 0                        | 0.10 (1)     |
| X-Y    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  |       |                                 |              |
| Y-F    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  |       |                                 |              |
| F-Z    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  |       |                                 |              |
| Z-G    | -7505 / 0                       | -91.8                     | -91.8        | 0.23 (1)                  |       |                                 |              |
| G-AA   | -6898 / 0                       | -91.8                     | -91.8        | 0.28 (1)                  |       |                                 |              |
| AA-AB  | -6898 / 0                       | -91.8                     | -91.8        | 0.28 (1)                  |       |                                 |              |
| AB-AC  | -6898 / 0                       | -91.8                     | -91.8        | 0.28 (1)                  |       |                                 |              |
| AC-H   | -6898 / 0                       | -91.8                     | -91.8        | 0.26 (1)                  |       |                                 |              |
| H-AD   | -4330 / 0                       | -91.8                     | -91.8        | 0.21 (1)                  |       |                                 |              |
| AD-AE  | -4330 / 0                       | -91.8                     | -91.8        | 0.21 (1)                  |       |                                 |              |
| AE-AF  | -4330 / 0                       | -91.8                     | -91.8        | 0.21 (1)                  |       |                                 |              |
| AF-I   | -4330 / 0                       | -91.8                     | -91.8        | 0.21 (1)                  |       |                                 |              |
| I-J    | -3028 / 0                       | 0.0                       | 0.0          | 0.35 (1)                  |       |                                 |              |

|       |          |       |       |          |       |
|-------|----------|-------|-------|----------|-------|
| R-AG  | 0 / 0    | -18.5 | -18.5 | 0.08 (4) | 10.00 |
| AG-AH | 0 / 0    | -18.5 | -18.5 | 0.08 (4) | 10.00 |
| AH-Q  | 0 / 0    | -18.5 | -18.5 | 0.08 (4) | 10.00 |
| Q-AI  | 0 / 4328 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| AI-P  | 0 / 4328 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| P-O   | 0 / 4328 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| O-AJ  | 0 / 6896 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
| AJ-AK | 0 / 6896 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
| AK-N  | 0 / 6896 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
| N-AL  | 0 / 6896 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
| AL-AM | 0 / 6896 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
| AM-AN | 0 / 6896 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
| AN-M  | 0 / 6896 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
| M-AO  | 0 / 4330 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| AO-L  | 0 / 4330 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| L-AP  | 0 / 4330 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| AP-AQ | 0 / 4330 | -18.5 | -18.5 | 0.33 (1) | 10.00 |
| AQ-K  | 0 / 4330 | -18.5 | -18.5 | 0.33 (1) | 10.00 |

TOTAL WEIGHT = 2 X 178 = 353 lb

DESIGN CRITERIA

SPECIFIED LOADS:

|            |   |      |     |
|------------|---|------|-----|
| TOP CH. LL | = | 25.6 | PSF |
| DL         | = | 5.0  | 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 5.00/12

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

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

ALLOWABLE DEFL. (LL) = L/360 (1.16")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.20")  
ALLOWABLE DEFL. (TL) = L/360 (1.16")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.38")

CS: TC=0.35/1.00 (I-J:1), BC=0.49/1.00 (M-N:1), WB=0.63/1.00 (K-L:1), SS=0.17/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

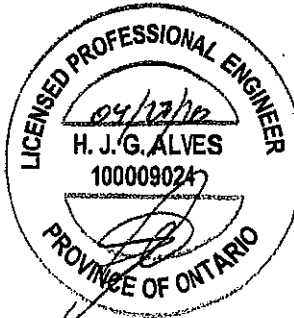
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (K) (INPUT = 0.90)  
JSI METAL= 0.42 (P) (INPUT = 1.00)

Structural component only  
DWG# T-2007063 1/2

CONTINUED ON PAGE 2



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408150                          | T1         | 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       |
| A                        | TMWW-I | MT20   | 6.0 | 9.0 | Edge      |
| B                        | TMWW-I | MT20   | 5.0 | 6.0 | 2.50 2.75 |
| C                        | TMWW-I | MT20   | 5.0 | 6.0 |           |
| D                        | TS-I   | MT20   | 5.0 | 6.0 |           |
| E                        | TMWW-I | MT20   | 3.0 | 6.0 |           |
| F                        | TS-I   | MT20   | 5.0 | 6.0 |           |
| G                        | TMWW-I | MT20   | 5.0 | 6.0 |           |
| H                        | TMWW-I | MT20   | 5.0 | 6.0 | 2.50 2.75 |
| I                        | TMWW-I | MT20   | 6.0 | 9.0 | Edge      |
| J                        | BMV1-p | MT20   | 3.0 | 6.0 |           |
| K                        | BMWW-I | MT20   | 6.0 | 9.0 | 3.00 4.25 |
| L                        | BS-I   | MT20   | 5.0 | 6.0 |           |
| M                        | BMWW-I | MT20   | 5.0 | 6.0 | 2.50 2.75 |
| N                        | BMWW-I | MT20   | 5.0 | 6.0 | 2.50 2.75 |
| O                        | BMWW-I | MT20   | 5.0 | 6.0 |           |
| P                        | BS-I   | MT20   | 5.0 | 6.0 |           |
| Q                        | BMWW-I | MT20   | 6.0 | 9.0 | 3.00 4.25 |
| R                        | BMV1-p | MT20   | 3.0 | 6.0 |           |

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) | LC1   | MAX. MEMB. FORCE (LBS) | MAX. FACTORED UNBRAC. LENGTH | FR-TO | CS1 (LC) |
| FR-TO  |                           | FROM                      | TO    |                        |                              |       |          |
| K-AR   | 0/0                       | -18.5                     | -18.5 | 0.06 (4)               | 10.00                        |       |          |
| AR-AS  | 0/0                       | -18.5                     | -18.5 | 0.06 (4)               | 10.00                        |       |          |
| AS-AT  | 0/0                       | -18.5                     | -18.5 | 0.06 (4)               | 10.00                        |       |          |
| AT-J   | 0/0                       | -18.5                     | -18.5 | 0.06 (4)               | 10.00                        |       |          |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.     | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|----------|------|------|------|-------|------|-------|------|-------|
| B  | 5-10-12  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| C  | 11-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| D  | 13-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 11-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 9-10-12  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 5-10-12  | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 1-10-12  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 3-10-12  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 7-10-12  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 9-10-12  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W  | 15-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X  | 17-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y  | 19-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z  | 21-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 23-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 25-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC | 27-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 29-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 31-10-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 33-10-12 | -113 | -113 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 1-10-12  | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 3-10-12  | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 7-10-12  | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 13-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 15-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 17-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AM | 19-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AN | 21-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AO | 23-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AP | 25-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AQ | 27-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AR | 29-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AS | 31-10-12 | -26  | -26  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AT | 33-10-12 | -27  | -27  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

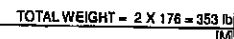
#### CONNECTION REQUIREMENTS

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

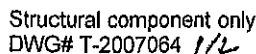


Structural component only  
DWG# T-2007063 72

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ID:7vF?aG0E03cRUjX1jSkzIwYK-zfWlZSolhMefFwNwhG568h7Ury0O8GacTegvOzNCnb  
-5.53 23.115 5.815 28.1013 5.113 34.100  
Scale = 1.503



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



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408150                          | T1Z        | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:17vF7aG0E03cRUj6X1iSkzIWK-SrVvTQ3 UVGPVZTPnKkJDIEFIF7bWq7 NRrZNCna

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMWW-t | MT20   | 6.0 | 9.0 |      | Edge |
| B  | TMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| C  | TMWW-t | MT20   | 5.0 | 6.0 |      |      |
| D  | TS-t   | MT20   | 5.0 | 6.0 |      |      |
| E  | TMW-w  | MT20   | 3.0 | 6.0 |      |      |
| F  | TS-t   | MT20   | 5.0 | 6.0 |      |      |
| G  | TMWW-t | MT20   | 5.0 | 6.0 |      |      |
| H  | TMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| I  | TMVW-t | MT20   | 6.0 | 9.0 |      | Edge |
| J  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |
| K  | BMWW-t | MT20   | 6.0 | 9.0 | 3.00 | 4.25 |
| L  | BS-t   | MT20   | 8.0 | 6.0 |      |      |
| M  | BMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| N  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| O  | BMWW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| P  | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| Q  | BMWW-t | MT20   | 6.0 | 9.0 | 3.00 | 4.25 |
| R  | BMV1+p | MT20   | 3.0 | 6.0 |      |      |

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

**FACTORED CONCENTRATED LOADS (LBS)**

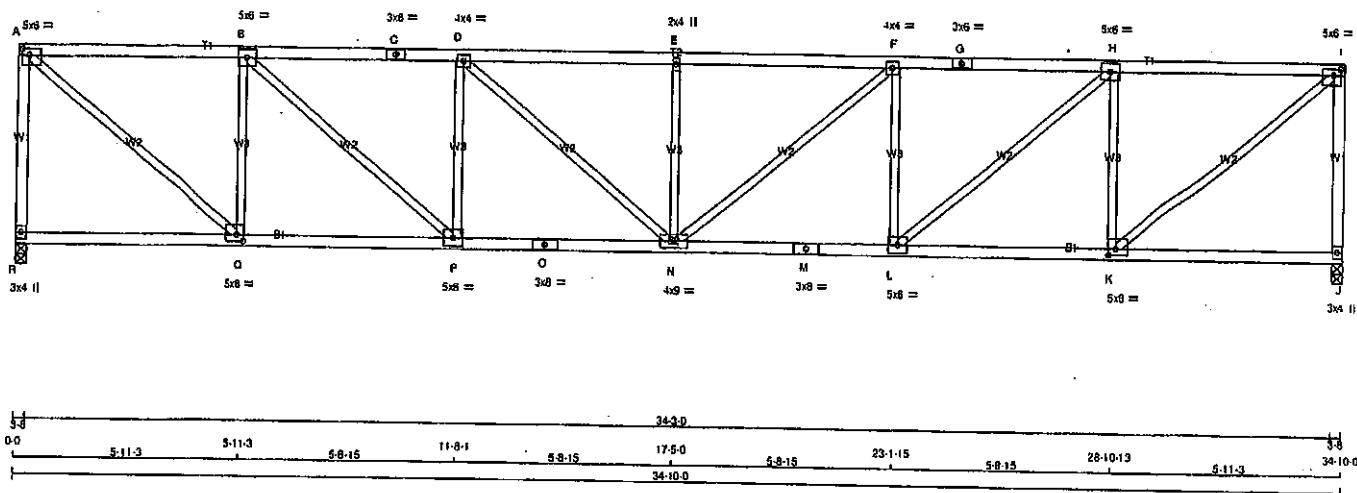
| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|------|------|-------|------|-------|
| AC | 16-3-8 | -1293 | -1293 |      | BACK | VERT | TOTAL |      | C1    |

**CONNECTION REQUIREMENTS**

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



Structural component only  
DWG# T-2007064 72



**LUMBER**

N. L. G. A. RULES

| CHORDS                | SIZE | LUMBER   | DESCR. |
|-----------------------|------|----------|--------|
| R - A                 | 2x4  | DRY No.2 | SPF    |
| A - C                 | 2x4  | DRY No.2 | SPF    |
| C - G                 | 2x4  | DRY No.2 | SPF    |
| G - I                 | 2x4  | DRY No.2 | SPF    |
| I - J                 | 2x4  | DRY No.2 | SPF    |
| J - O                 | 2x4  | DRY No.2 | SPF    |
| O - M                 | 2x4  | DRY No.2 | SPF    |
| M - J                 | 2x4  | DRY No.2 | SPF    |
| ALL WEBS              | 2x3  | DRY No.2 | SPF    |
| DRY: SEASONED LUMBER. |      |          |        |

**PLATES (table is in inches)**

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| A       | TMVW-1 | MT20 | 5.0 | 6.0 | 2.00 2.25 |
| B       | TMVW-1 | MT20 | 5.0 | 6.0 |           |
| C       | TS-1   | MT20 | 3.0 | 6.0 |           |
| D       | TMVW-1 | MT20 | 4.0 | 4.0 |           |
| E       | TMVW-1 | MT20 | 2.0 | 4.0 |           |
| F       | TMVW-1 | MT20 | 4.0 | 4.0 |           |
| G       | TS-1   | MT20 | 3.0 | 6.0 |           |
| H       | TMVW-1 | MT20 | 5.0 | 6.0 |           |
| I       | TMVW-1 | MT20 | 5.0 | 6.0 | 2.00 2.25 |
| J       | BMV1-p | MT20 | 3.0 | 4.0 |           |
| K       | BMVW-1 | MT20 | 5.0 | 6.0 | 2.00 2.25 |
| L       | BMVW-1 | MT20 | 5.0 | 6.0 |           |
| M       | BS-1   | MT20 | 3.0 | 6.0 |           |
| N       | BMVW-1 | MT20 | 4.0 | 4.0 |           |
| O       | BS-1   | MT20 | 3.0 | 6.0 |           |
| P       | BMVW-1 | MT20 | 5.0 | 6.0 |           |
| Q       | BMVW-1 | MT20 | 5.0 | 6.0 | 2.00 2.25 |
| R       | BMV1-p | MT20 | 3.0 | 4.0 |           |

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| R  | 1920                    | 0                               | 1920      | 0        |
| J  | 1920                    | 0                               | 1920      | 0        |

**UNFACTORED REACTIONS**

|    | 1ST LOASE | MAX MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|------------------------------|------------|-------|---------|-------|
| JT | COMBINED  | LIVE                         | PERM. LIVE | WIND  | DEAD    | SOIL  |
| R  | 1358      | 891 / 0                      | 0 / 0      | 0 / 0 | 467 / 0 | 0 / 0 |
| J  | 1358      | 891 / 0                      | 0 / 0      | 0 / 0 | 467 / 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 = 3.23 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS |                           |                           |                        | 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 |                           |                        |  |
| R-A    | -1875 / 0                 | 0.0                       | 0.0 0.83 (1)           | K-I   | 0 / 2630                  | 0.59 (1)               |  |
| A-B    | -2042 / 0                 | -91.8                     | -91.8 0.59 (1)         | A-Q   | 0 / 2630                  | 0.59 (1)               |  |
| B-C    | -3149 / 0                 | -91.8                     | -91.8 0.74 (1)         | K-H   | -1535 / 0                 | 0.59 (1)               |  |
| C-D    | -3149 / 0                 | -91.8                     | -91.8 0.74 (1)         | Q-B   | -1535 / 0                 | 0.59 (1)               |  |
| D-E    | -3533 / 0                 | -91.8                     | -91.8 0.68 (1)         | L-H   | 0 / 1444                  | 0.33 (1)               |  |
| E-F    | -3533 / 0                 | -91.8                     | -91.8 0.68 (1)         | B-P   | 0 / 1444                  | 0.33 (1)               |  |
| F-G    | -3149 / 0                 | -91.8                     | -91.8 0.74 (1)         | L-F   | -828 / 0                  | 0.32 (1)               |  |
| G-H    | -3149 / 0                 | -91.8                     | -91.8 0.74 (1)         | P-O   | -828 / 0                  | 0.32 (1)               |  |
| H-I    | -2042 / 0                 | -91.8                     | -91.8 0.69 (1)         | N-F   | 0 / 502                   | 0.11 (1)               |  |
| I-J    | -1875 / 0                 | 0.0                       | 0.0 0.83 (1)           | D-N   | 0 / 502                   | 0.11 (1)               |  |
|        |                           |                           |                        | N-E   | -537 / 0                  | 0.21 (1)               |  |
| R-Q    | 0 / 0                     | -18.5                     | -18.5 0.15 (4)         | 10.00 |                           |                        |  |
| Q-P    | 0 / 2042                  | -18.5                     | -18.5 0.40 (1)         | 10.00 |                           |                        |  |
| P-O    | 0 / 3149                  | -18.5                     | -18.5 0.56 (1)         | 10.00 |                           |                        |  |
| O-N    | 0 / 3149                  | -18.5                     | -18.5 0.56 (1)         | 10.00 |                           |                        |  |
| N-M    | 0 / 3149                  | -18.5                     | -18.5 0.56 (1)         | 10.00 |                           |                        |  |
| M-L    | 0 / 3149                  | -18.5                     | -18.5 0.56 (1)         | 10.00 |                           |                        |  |
| L-K    | 0 / 2042                  | -18.5                     | -18.5 0.40 (1)         | 10.00 |                           |                        |  |
| K-J    | 0 / 0                     | -18.5                     | -18.5 0.15 (4)         | 10.00 |                           |                        |  |

TOTAL WEIGHT = 2 X 143 = 286 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 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, OBC 2012, ABC 2018  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, 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 (1.16")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.23")  
ALLOWABLE DEFL.(TL) = L/360 (1.16")  
CALCULATED VERT. DEFL.(TL) = L/996 (0.42")

CSI: TC=0.03/1.00 (A-R:1), BC=0.56/1.00 (N-P:1),  
WB=0.59/1.00 (I-K:1), SS=0.25/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

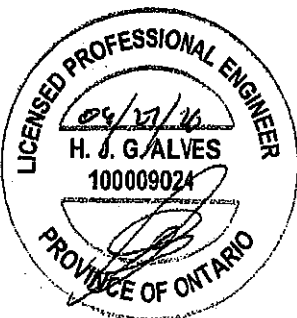
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

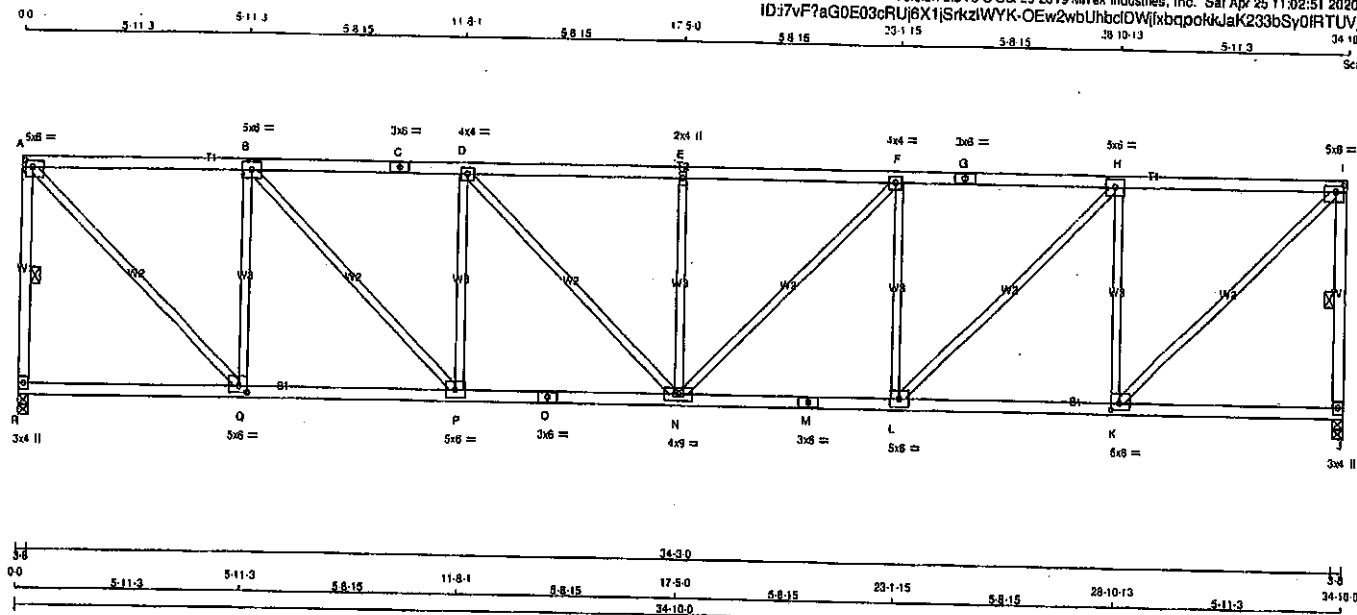
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (A) (INPUT = 0.90)  
JSI METAL = 0.99 (M) (INPUT = 1.00)



|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408150</b>       | TRUSS NAME<br><b>T3</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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 Scale = 1/4" = 1'-0"



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   |
|--------|------|----------|
| R - A  | 2x4  | DRY No.2 |
| A - C  | 2x4  | DRY No.2 |
| C - G  | 2x4  | DRY No.2 |
| G - I  | 2x4  | DRY No.2 |
| J - I  | 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  
 DRY: SEASONED LUMBER.

**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 | IN-SX     | IN-SX | IN-SX    | IN-SX |
| R  | 1920                    | 0    | 1920                            | 0    | 0         | 3-8   | 3-8      | 3-8   |
| J  | 1920                    | 0    | 1920                            | 0    | 0         | 3-8   | 3-8      | 3-8   |

**UNFACTORED REACTIONS**

| JT | 1ST CASE MAX/MIN COMPONENT REACTIONS |         |       |           |       |         |       |
|----|--------------------------------------|---------|-------|-----------|-------|---------|-------|
|    | COMBINED                             | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| R  | 1358                                 | 891 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 467 / 0 | 0 / 0 |
| J  | 1358                                 | 891 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 467 / 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 = 3.59 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.

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

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)

| MEMB. | CHORDS                    |                           | WEBS                      |                                |
|-------|---------------------------|---------------------------|---------------------------|--------------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (PLF) |
| R-A   | -1875 / 0                 | 0.0                       | 0.0                       | 0.33 (1)                       |
| A-B   | -1691 / 0                 | -91.8                     | -91.8                     | 0.56 (1)                       |
| B-C   | -2608 / 0                 | -91.8                     | -91.8                     | 0.68 (1)                       |
| C-D   | -2608 / 0                 | -91.8                     | -91.8                     | 0.66 (1)                       |
| D-E   | -2627 / 0                 | -91.8                     | -91.8                     | 0.58 (1)                       |
| E-F   | -2627 / 0                 | -91.8                     | -91.8                     | 0.58 (1)                       |
| F-G   | -2608 / 0                 | -91.8                     | -91.8                     | 0.68 (1)                       |
| G-H   | -2608 / 0                 | -91.8                     | -91.8                     | 0.68 (1)                       |
| H-I   | -1691 / 0                 | -91.8                     | -91.8                     | 0.55 (1)                       |
| I-J   | -1875 / 0                 | 0.0                       | 0.0                       | 0.33 (1)                       |
| R-Q   | 0 / 0                     | -18.5                     | -18.5                     | 0.15 (4)                       |
| Q-P   | 0 / 1691                  | -18.5                     | -18.5                     | 0.35 (1)                       |
| P-O   | 0 / 2608                  | -18.5                     | -18.5                     | 0.47 (1)                       |
| O-N   | 0 / 2608                  | -18.5                     | -18.5                     | 0.47 (1)                       |
| N-M   | 0 / 2608                  | -18.5                     | -18.5                     | 0.47 (1)                       |
| M-L   | 0 / 2608                  | -18.5                     | -18.5                     | 0.47 (1)                       |
| L-K   | 0 / 1691                  | -18.5                     | -18.5                     | 0.35 (1)                       |
| K-J   | 0 / 0                     | -18.5                     | -18.5                     | 0.15 (4)                       |

TOTAL WEIGHT = 2 X 153 = 305 b

**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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF NBC 2015, CBC 2012, ABC 2018  
 - 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 (1.16")  
 CALCULATED VERT. DEFL.(LL) = L/899 (0.18")  
 ALLOWABLE DEFL.(TL) = L/360 (1.16")  
 CALCULATED VERT. DEFL.(TL) = L/899 (0.33")  
 CSI: TC=0.68/1.00 (F-H:1), BC=0.47/1.00 (N-P:1),  
 WB=0.90/1.00 (H-K:1), SSI=0.25/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

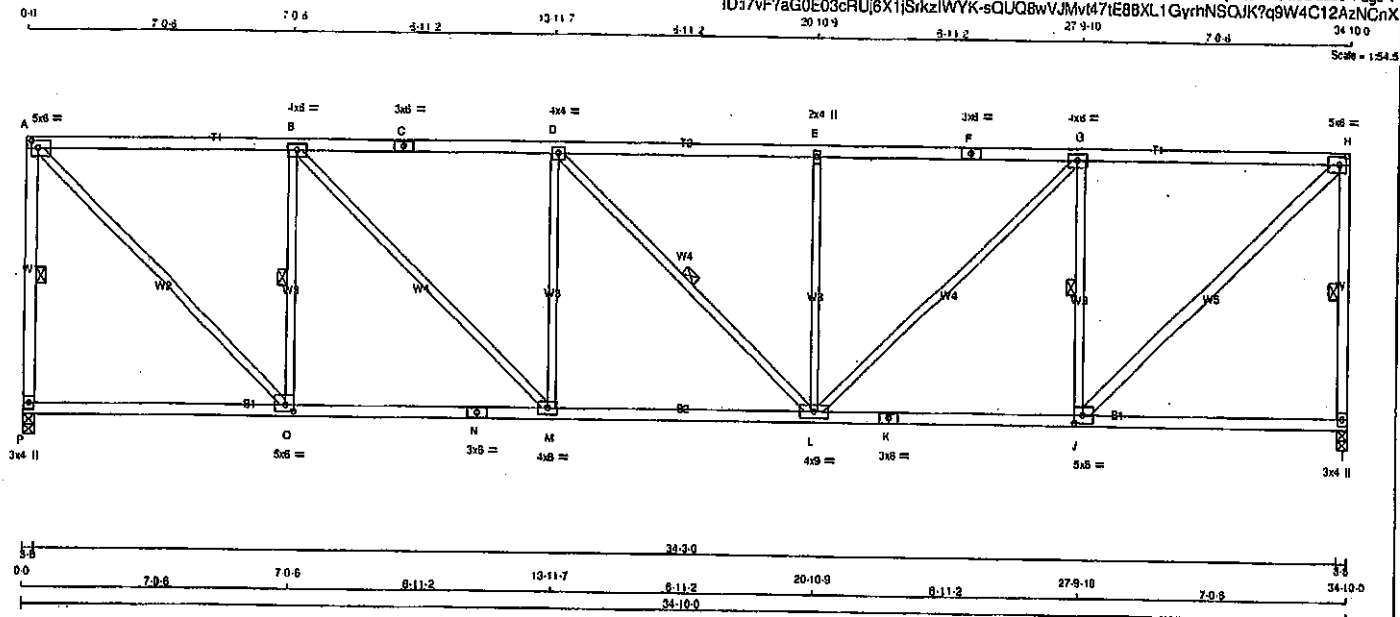
JSI GRIP=0.83 (I) (INPUT=0.90)  
 JSI METAL=0.83 (M) (INPUT=1.00)



Structural component only  
 DWG# T-2007086

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408150</b>       | TRUSS NAME<br><b>T4</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |        |        |     |     |           |
|--------------------------|--------|--------|-----|-----|-----------|
| JT                       | TYPE   | PLATES | W   | LEN | Y X       |
| A                        | TMVW-I | MT20   | 5.0 | 8.0 | 2.25 2.00 |
| B                        | TMVW-I | MT20   | 4.0 | 8.0 |           |
| C                        | TS-I   | MT20   | 3.0 | 6.0 |           |
| D                        | TMVW-I | MT20   | 4.0 | 4.0 |           |
| E                        | TMVW-I | MT20   | 2.0 | 4.0 |           |
| F                        | TS-I   | MT20   | 3.0 | 6.0 |           |
| G                        | TMVW-I | MT20   | 4.0 | 8.0 |           |
| H                        | TMVW-I | MT20   | 5.0 | 8.0 | 2.50 2.50 |
| I                        | BMV1-p | MT20   | 3.0 | 4.0 |           |
| J                        | BMVW-I | MT20   | 5.0 | 8.0 | 2.50 2.50 |
| K                        | BS-I   | MT20   | 3.0 | 8.0 |           |
| L                        | BMVW-I | MT20   | 4.0 | 8.0 |           |
| M                        | BMVW-I | MT20   | 4.0 | 8.0 |           |
| N                        | BS-I   | MT20   | 3.0 | 8.0 |           |
| O                        | BMVW-I | MT20   | 5.0 | 8.0 | 2.00 2.50 |
| P                        | BMV1-p | MT20   | 3.0 | 4.0 |           |

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

| BEARINGS |      | FACTORED |      | GROSS REACTION |    | MAXIMUM FACTORED |     | INPUT |       | REQD  |       |
|----------|------|----------|------|----------------|----|------------------|-----|-------|-------|-------|-------|
| JT       | VERT | VERT     | HORZ | DOWN           | UP | BRG              | BRG | IN-SX | IN-SX | IN-SX | IN-SX |
| P        | 1920 | 0        | 1920 | 0              | 0  | 3-8              | 3-8 |       |       |       |       |
| I        | 1920 | 0        | 1920 | 0              | 0  | 3-8              | 3-8 |       |       |       |       |

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW  | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|----------|-------|------|------------|------|-------|------|
| P  | 1358     | 891/0 | 0/0  | 0/0        | 0/0  | 467/0 | 0/0  |
| I  | 1358     | 891/0 | 0/0  | 0/0        | 0/0  | 467/0 | 0/0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.31 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 A-P, H-I, B-O, D-L, G-J.

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 |                           |               |  |
| P-A    | -1868/0                   | 0.0                       | 0.0 0.43 (1)   | A-O   | 0/2315                    | 0.52 (1)      |  |
| A-B    | -1862/0                   | -91.8                     | -91.8 0.82 (1) | O-B   | -1468/0                   | 0.47 (1)      |  |
| B-C    | -2418/0                   | -91.8                     | -91.8 0.95 (1) | B-M   | 0/1058                    | 0.24 (1)      |  |
| C-D    | -2418/0                   | -91.8                     | -91.8 0.95 (1) | M-D   | -817/0                    | 0.54 (1)      |  |
| D-E    | -2415/0                   | -91.8                     | -91.8 0.74 (1) | D-L   | -2/0                      | 0.00 (1)      |  |
| E-F    | -2415/0                   | -91.8                     | -91.8 0.98 (1) | L-E   | -618/0                    | 0.54 (1)      |  |
| F-G    | -2415/0                   | -91.8                     | -91.8 0.96 (1) | G-L   | 0/1054                    | 0.24 (1)      |  |
| G-H    | -1863/0                   | -91.8                     | -91.8 0.82 (1) | J-G   | -1465/0                   | 0.47 (1)      |  |
| H-I    | -1868/0                   | 0.0                       | 0.0 0.43 (1)   | I-H   | 0/2316                    | 0.37 (1)      |  |
| P-O    | 0/0                       | -18.5                     | -18.5 0.22 (4) |       |                           |               |  |
| O-N    | 0/1862                    | -18.5                     | -18.5 0.39 (1) |       |                           |               |  |
| N-M    | 0/1862                    | -18.5                     | -18.5 0.39 (1) |       |                           |               |  |
| M-L    | 0/2418                    | -18.5                     | -18.5 0.47 (1) |       |                           |               |  |
| L-K    | 0/1863                    | -18.5                     | -18.5 0.39 (1) |       |                           |               |  |
| K-J    | 0/1863                    | -18.5                     | -18.5 0.39 (1) |       |                           |               |  |
| J-I    | 0/0                       | -18.5                     | -18.5 0.22 (4) |       |                           |               |  |

TOTAL WEIGHT = 2 X 157 = 313 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 6.00/12

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.16")  
CALCULATED VERT. DEFL.(LL) = U/999 (0.15")  
ALLOWABLE DEFL.(TL) = L/360 (1.16")  
CALCULATED VERT. DEFL.(TL) = U/999 (0.29")

CSI: TC=0.99/1.00 (E-G:1), BC=0.47/1.00 (L-M:1), WB=0.54/1.00 (D-M:1), SI=0.30/1.00 (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) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (A) (INPUT = 0.90)  
JSI METAL = 0.93 (K) (INPUT = 1.00)

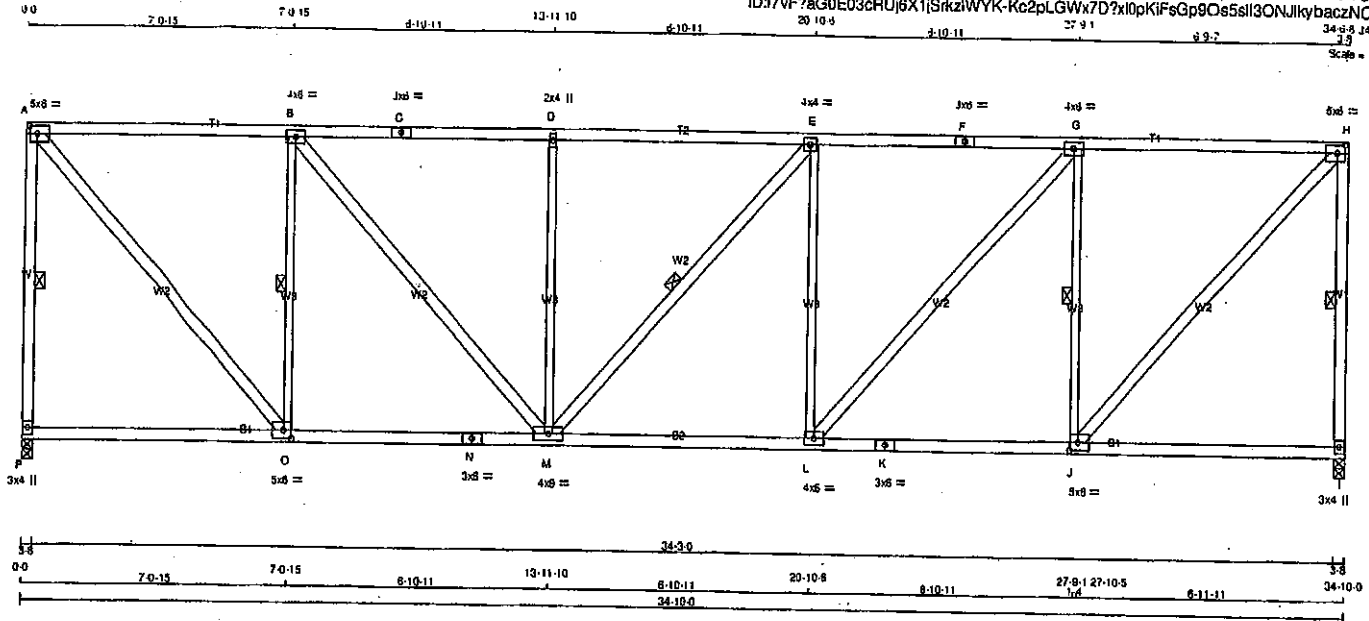


Structural component only  
DWG# T-2007067



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408150                          | T5         | 10       | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Sat Apr 25 11:02:53 2020 Page 1  
ID:7vF?aG0E03cRUj6X1[SrkziWYK-Kc2pLGWx7D?x10pKiFsGp9Oe5s1l3ONulkybacznW  
34-5-8 14 10-9  
Scale = 1:54.5



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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| A                           | TMVW-1 | MT20   | 5.0 | 8.0 | 2.50 2.50 |
| B                           | TMVW-1 | MT20   | 4.0 | 8.0 |           |
| C                           | TS-1   | MT20   | 3.0 | 8.0 |           |
| D                           | TMVW-1 | MT20   | 2.0 | 4.0 |           |
| E                           | TMVW-1 | MT20   | 4.0 | 4.0 |           |
| F                           | TS-1   | MT20   | 3.0 | 8.0 |           |
| G                           | TMVW-1 | MT20   | 4.0 | 8.0 |           |
| H                           | TMVW-1 | MT20   | 5.0 | 8.0 | 2.50 2.50 |
| I                           | BMV1+p | MT20   | 3.0 | 4.0 |           |
| J                           | BMVW-1 | MT20   | 5.0 | 8.0 | 2.50 2.50 |
| K                           | BS-1   | MT20   | 3.0 | 6.0 |           |
| L                           | BMVW-1 | MT20   | 4.0 | 8.0 |           |
| M                           | BMVW-1 | MT20   | 4.0 | 8.0 |           |
| N                           | BS-1   | MT20   | 3.0 | 6.0 |           |
| O                           | BMVW-1 | MT20   | 5.0 | 8.0 | 2.50 2.50 |
| P                           | BMV1+p | MT20   | 3.0 | 4.0 |           |

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT |       | REQD. |       |
|----------|------|----------------|------|------------------|------|-------|-------|-------|-------|
| JT       | VERT | GROSS REACTION | HORZ | GROSS REACTION   | DOWN | BRG   | IN-SX | BRG   | IN-SX |
| P        | 1920 | 0              | 1920 | 0                | 0    | 3-8   | 3-8   |       |       |
| I        | 1920 | 0              | 1920 | 0                | 0    | 3-8   | 3-8   |       |       |

#### UNFACTORED REACTIONS

| 1ST LOASE |          | MAX./MIN. COMPONENT REACTIONS |       | FACTORED  |       | MAXIMUM FACTORED |       | INPUT |       | REQD. |       |
|-----------|----------|-------------------------------|-------|-----------|-------|------------------|-------|-------|-------|-------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERMATIVE | WIND  | DEAD             | SOIL  | BRG   | IN-SX | BRG   | IN-SX |
| P         | 1358     | 891 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 487 / 0          | 0 / 0 |       |       |       |       |
| I         | 1358     | 891 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 487 / 0          | 0 / 0 |       |       |       |       |

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

#### 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF A-P, H-I, G-J, B-O, E-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 |             | FACTORED   |                | WEBS  |             | FACTORED   |          |
|--------|-------------|------------|----------------|-------|-------------|------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX        | MEMB. | FORCE (LBS) | VERT. LOAD | LC1 MAX  |
| P-A    | -1888 / 0   | 0.0        | 0.0 0.55 (1)   | J-H   | 0 / 2171    | 0.35 (1)   | 0.35 (1) |
| A-B    | -1458 / 0   | -91.8      | -91.8 0.80 (1) | A-O   | 0 / 2171    | 0.35 (1)   | 0.35 (1) |
| B-C    | -2108 / 0   | -91.8      | -91.8 0.90 (1) | J-G   | -1483 / 0   | 0.81 (1)   | 0.81 (1) |
| C-D    | -2108 / 0   | -91.8      | -91.8 0.90 (1) | O-B   | -1482 / 0   | 0.81 (1)   | 0.81 (1) |
| D-E    | -2108 / 0   | -91.8      | -91.8 0.88 (1) | L-G   | 0 / 982     | 0.16 (1)   | 0.16 (1) |
| E-F    | -2108 / 0   | -91.8      | -91.8 0.90 (1) | B-M   | 0 / 980     | 0.16 (1)   | 0.16 (1) |
| F-G    | -2108 / 0   | -91.8      | -91.8 0.90 (1) | L-E   | -613 / 0    | 0.78 (1)   | 0.78 (1) |
| G-H    | -1458 / 0   | -91.8      | -91.8 0.79 (1) | M-D   | -612 / 0    | 0.77 (1)   | 0.77 (1) |
| H-I    | -1888 / 0   | 0.0        | 0.0 0.55 (1)   | M-E   | -2 / 0      | 0.00 (1)   | 0.00 (1) |
| P-O    | 0 / 0       | -18.5      | -18.5 0.22 (4) |       |             |            |          |
| O-N    | 0 / 1458    | -18.5      | -18.5 0.36 (1) |       |             |            |          |
| N-M    | 0 / 1458    | -18.5      | -18.5 0.42 (1) |       |             |            |          |
| M-L    | 0 / 2108    | -18.5      | -18.5 0.36 (1) |       |             |            |          |
| L-K    | 0 / 1458    | -18.5      | -18.5 0.36 (1) |       |             |            |          |
| K-J    | 0 / 1458    | -18.5      | -18.5 0.36 (1) |       |             |            |          |
| J-I    | 0 / 0       | -18.5      | -18.5 0.22 (4) |       |             |            |          |

#### 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, NBCG 2010, NBCG 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCG 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.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.16")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (1.16")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.90/1.00 (B-D:1), BC=0.42/1.00 (L-M:1), WB=0.78/1.00 (E-L:1), SSI=0.31/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

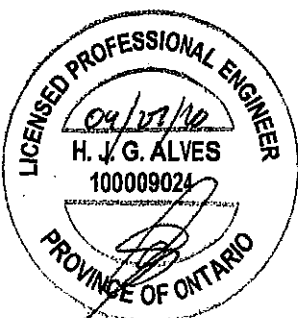
#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

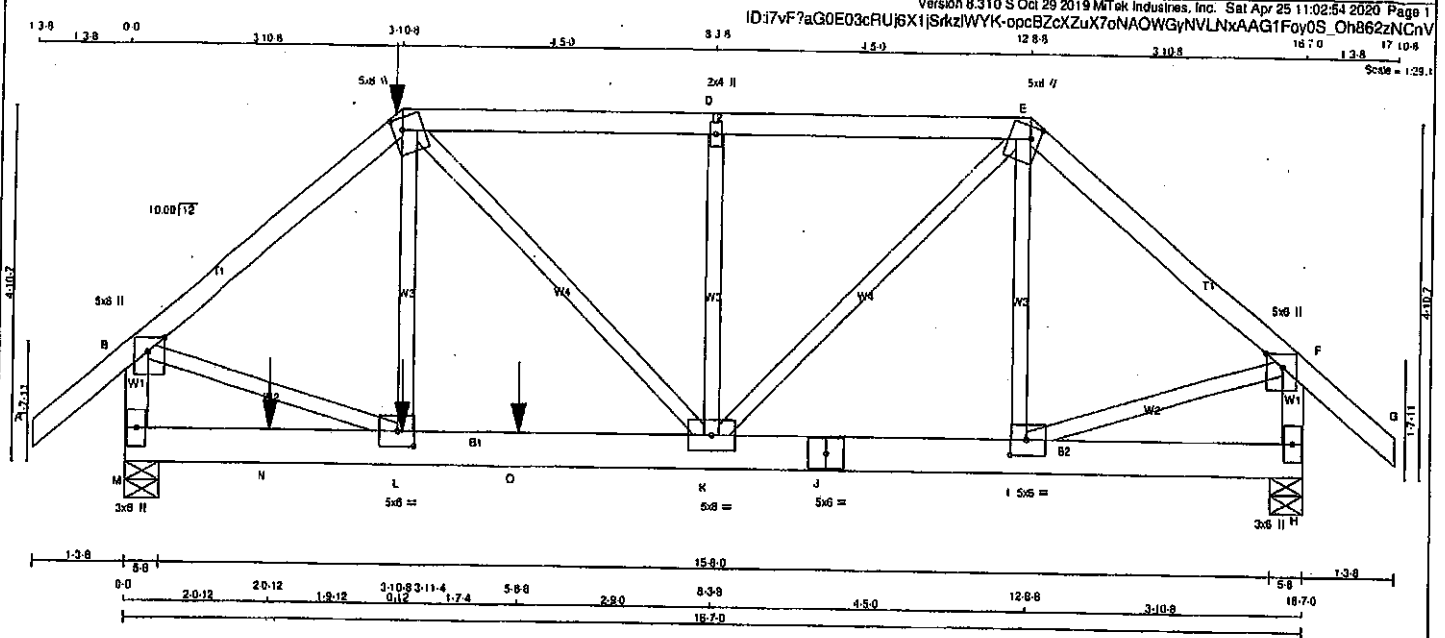
JSI GRIP = 0.87 (A) (INPUT = 0.90)  
JSI METAL = 0.47 (N) (INPUT = 1.00)



Structural component only  
DWG# T-2007068

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408150   | T6         | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington



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

| PLATES (table in inches) | JT     | TYPE | PLATES | W   | LEN  | Y    | X |
|--------------------------|--------|------|--------|-----|------|------|---|
| B                        | MT20   | MT20 | 5.0    | 6.0 | Edge | 2.75 |   |
| C                        | TTWW+m | MT20 | 5.0    | 6.0 | 2.00 | 1.50 |   |
| D                        | TTWW+m | MT20 | 2.0    | 4.0 |      |      |   |
| E                        | TTWW+m | MT20 | 5.0    | 6.0 | 2.00 | 1.50 |   |
| F                        | TTWW+m | MT20 | 5.0    | 6.0 | Edge | 2.75 |   |
| H                        | BMV1+p | MT20 | 3.0    | 6.0 |      |      |   |
| I                        | BMV1+p | MT20 | 5.0    | 6.0 | 2.50 | 2.75 |   |
| J                        | BS-1   | MT20 | 5.0    | 6.0 |      |      |   |
| K                        | BMV1+p | MT20 | 5.0    | 6.0 |      |      |   |
| L                        | BMV1+p | MT20 | 5.0    | 6.0 | 2.50 | 2.75 |   |
| M                        | BMV1+p | MT20 | 3.0    | 6.0 |      |      |   |

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | UPLIFT    | INSX     |
| M        | 1888                    | 0                               | 1888      | 0        |
| H        | 1422                    | 0                               | 1422      | 0        |

| UNFACTORED REACTIONS | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|----------------------|----------|-------------------------------|
| JT                   | COMBINED | SNOW                          |
| M                    | 1329     | 909 / 0                       |
| H                    | 1001     | 683 / 0                       |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (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  |                           |                           |                                |                                |                                |                                |                                |                                |                                |                                |                                |                                 |
| A-B    | 0 / 41                    | -91.8                     | -91.8                          | 0.14 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| B-C    | -1847 / 0                 | -91.8                     | -91.8                          | 0.34 (1)                       | 4.55                           |                                |                                |                                |                                |                                |                                |                                 |
| C-D    | -1841 / 0                 | -91.8                     | -91.8                          | 0.36 (1)                       | 4.72                           |                                |                                |                                |                                |                                |                                |                                 |
| D-E    | -1841 / 0                 | -91.8                     | -91.8                          | 0.36 (1)                       | 4.72                           |                                |                                |                                |                                |                                |                                |                                 |
| E-F    | -1225 / 0                 | -91.8                     | -91.8                          | 0.30 (1)                       | 5.40                           |                                |                                |                                |                                |                                |                                |                                 |
| F-G    | 0 / 41                    | -91.8                     | -91.8                          | 0.14 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| M-B    | -1928 / 0                 | 0.0                       | 0.0                            | 0.22 (1)                       | 6.01                           |                                |                                |                                |                                |                                |                                |                                 |
| H-F    | -1380 / 0                 | 0.0                       | 0.0                            | 0.18 (1)                       | 8.88                           |                                |                                |                                |                                |                                |                                |                                 |
| M-N    | 0 / 0                     | -18.5                     | -18.5                          | 0.24 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| N-L    | 0 / 0                     | -18.5                     | -18.5                          | 0.24 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| L-O    | 0 / 1424                  | -18.5                     | -18.5                          | 0.70 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| O-K    | 0 / 1424                  | -18.5                     | -18.5                          | 0.70 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| K-J    | 0 / 932                   | -18.5                     | -18.5                          | 0.29 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| J-I    | 0 / 932                   | -18.5                     | -18.5                          | 0.29 (1)                       | 10.00                          |                                |                                |                                |                                |                                |                                |                                 |
| I-H    | 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                                 | 3-10-8 | -241 | -241 | ---  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L                                 | 3-11-4 | -17  | -17  | ---  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N                                 | 2-0-12 | -17  | -17  | ---  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O                                 | 5-6-8  | -953 | -953 | ---  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 64 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SPACE 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 2010  
- 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 (0.55")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")  
ALLOWABLE DEFL.(TL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.38/1.00 (C-D-1), BC=0.70/1.00 (K-L-1), WB=0.37/1.00 (B-L-1), SSI=0.45/1.00 (K-L-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 789 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (C) (INPUT = 0.90)  
JSI METAL = 0.57 (J) (INPUT = 1.00)



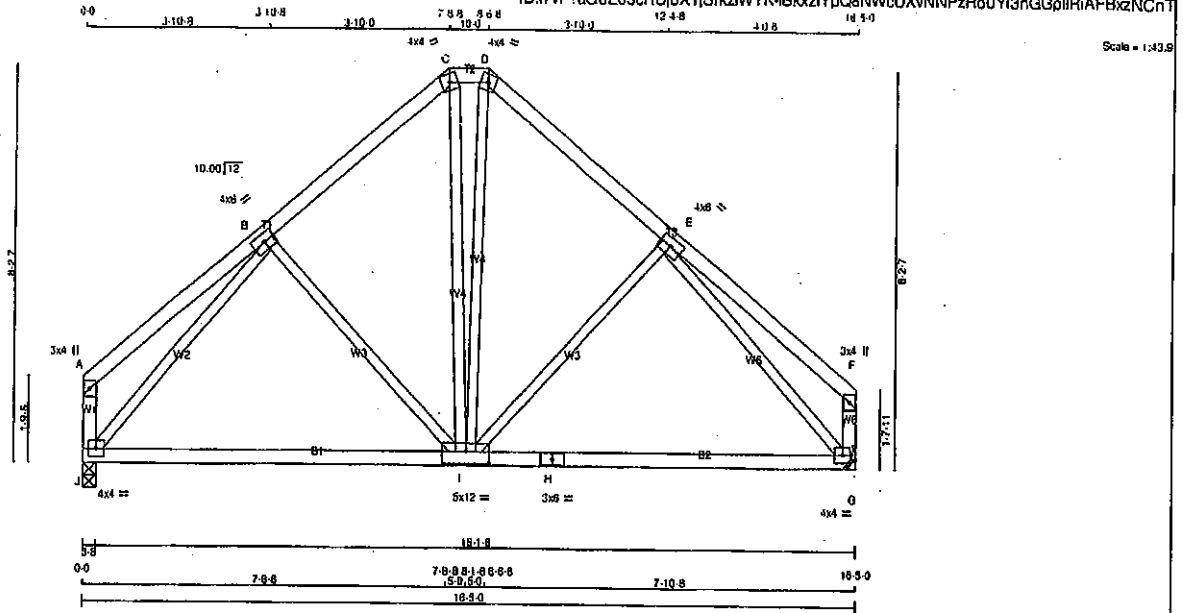
Structural component only  
DWG# T-2007069



|                           |                         |                      |                 |                                      |             |          |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>408150</b> | TRUSS NAME<br><b>T8</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

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 11:02:58 2020 Page 1  
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Scale = 1:43.8

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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |        |        |     |      |           |
|--------------------------|--------|--------|-----|------|-----------|
| JT                       | TYPE   | PLATES | W   | LEN  | Y X       |
| A                        | TMV+p  | MT20   | 3.0 | 4.0  |           |
| B                        | TMVW-1 | MT20   | 4.0 | 6.0  |           |
| C                        | TTW-m  | MT20   | 4.0 | 4.0  |           |
| D                        | TTW-m  | MT20   | 4.0 | 4.0  |           |
| E                        | TMVW-1 | MT20   | 4.0 | 6.0  |           |
| F                        | TMV+p  | MT20   | 3.0 | 4.0  |           |
| G                        | BMVW-1 | MT20   | 4.0 | 4.0  |           |
| H                        | BS-1   | MT20   | 3.0 | 6.0  |           |
| I                        | BMVW-1 | MT20   | 5.0 | 12.0 | 3.00 6.00 |
| J                        | BMVW-1 | MT20   | 4.0 | 4.0  |           |

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

| BEARINGS |                         |                                 |           |            |        |            |       |
|----------|-------------------------|---------------------------------|-----------|------------|--------|------------|-------|
| JT       | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | RECORD BRG |        |            |       |
|          | VERT                    | HORZ                            | DOWN      | HORZ       | UPLIFT | IN-SX      | IN-SX |
| J        | 905                     | 0                               | 905       | 0          | 0      | 3-8        | 3-8   |
| G        | 905                     | 0                               | 905       | 0          | 0      | MECHANICAL |       |

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

| UNFACTORED REACTIONS |                   |                |                |                      |       |         |       |
|----------------------|-------------------|----------------|----------------|----------------------|-------|---------|-------|
| JT                   | 1ST CASE COMBINED | MAX. MIN. SNOW | MAX. MIN. LIVE | MAX. MIN. PERM. LIVE | WIND  | DEAD    | SOIL  |
| J                    | 640               | 420 / 0        | 0 / 0          | 0 / 0                | 0 / 0 | 220 / 0 | 0 / 0 |
| G                    | 640               | 420 / 0        | 0 / 0          | 0 / 0                | 0 / 0 | 220 / 0 | 0 / 0 |

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                 | WEBS  |                           |                                 |          |
|--------|---------------------------|---------------------------|---------------------------------|-------|---------------------------|---------------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORIZ. LOAD (LBS) |          |
| FR-TO  |                           | FROM TO                   | LENGTH                          | FR-TO |                           | LENGTH                          |          |
| A-B    | 0 / 27                    | -91.8 -91.8               | 0.22 (1)                        | 10.00 | B-1                       | -183 / 0                        | 0.11 (1) |
| B-C    | -849 / 0                  | -91.8 -91.8               | 0.17 (1)                        | 6.25  | I-E                       | -190 / 0                        | 0.13 (1) |
| C-D    | -489 / 0                  | -91.8 -91.8               | 0.01 (1)                        | 6.25  | J-B                       | -930 / 0                        | 0.54 (1) |
| D-E    | -650 / 0                  | -91.8 -91.8               | 0.18 (1)                        | 6.25  | E-G                       | -935 / 0                        | 0.57 (1) |
| E-F    | 0 / 27                    | -91.8 -91.8               | 0.23 (1)                        | 10.00 | C-I                       | 0 / 221                         | 0.05 (1) |
| J-A    | -129 / 0                  | 0.0 0.0                   | 0.01 (1)                        | 7.81  | I-D                       | 0 / 222                         | 0.05 (1) |
| G-F    | -137 / 0                  | 0.0 0.0                   | 0.01 (1)                        | 7.81  |                           |                                 |          |
| J-I    | 0 / 590                   | -18.5 -18.5               | 0.41 (4)                        | 10.00 |                           |                                 |          |
| I-H    | 0 / 608                   | -18.5 -18.5               | 0.41 (4)                        | 10.00 |                           |                                 |          |
| H-G    | 0 / 608                   | -18.5 -18.5               | 0.41 (4)                        | 10.00 |                           |                                 |          |

TOTAL WEIGHT = 77 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**

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, 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.23/1.00 (E-F:1), BC=0.41/1.00 (G-I:4), WB=0.57/1.00 (E-G:1), SS=0.13/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

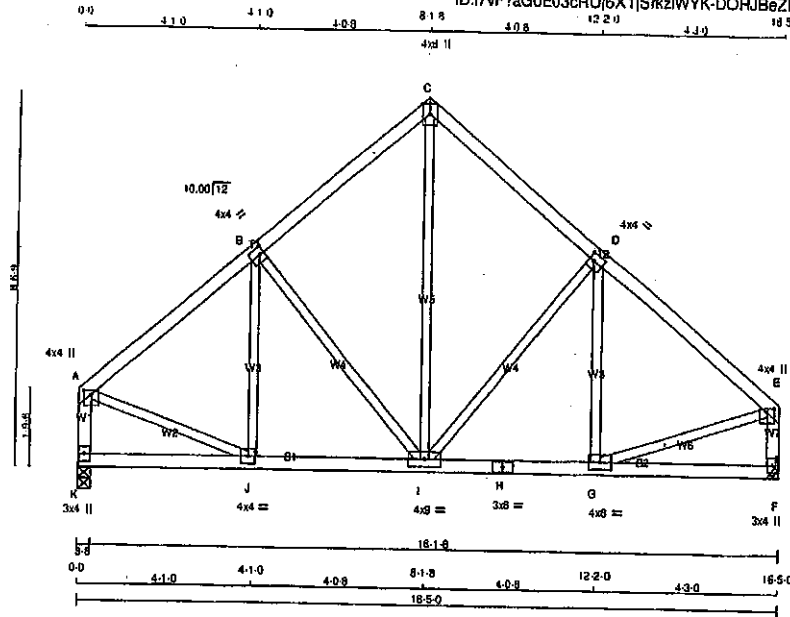
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.75 (G) (INPUT = 0.90)  
JSI METAL= 0.23 (G) (INPUT = 1.00)



Structural component only  
DWG# T-2007071

|                                                                                    |            |          |     |                  |          |
|------------------------------------------------------------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                                                                           | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408150                                                                             | T9         | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington                                                    |            |          |     |                  |          |
| Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:02:57 2020 Page 1 |            |          |     |                  |          |
| ID:17vF7aG0E03cRUj6X1jS#zIWYK-DOHJBeZRB5VNEe65x4wCz7ZjsTBi7LQvgMwojNzNCnS          |            |          |     |                  |          |
| Scale = 1:38.5                                                                     |            |          |     |                  |          |



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER |
|--------|-------------------|--------|------|-----|--------|
| A - C  | 2x4               | DRY    | No.2 |     |        |
| C - E  | 2x4               | DRY    | No.2 |     |        |
| K - A  | 2x4               | DRY    | No.2 |     |        |
| F - E  | 2x4               | DRY    | No.2 |     |        |
| K - H  | 2x4               | DRY    | No.2 |     |        |
| H - F  | 2x4               | DRY    | No.2 |     |        |

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

| PLATES (table in inches) | PLATES | W   | LEN | Y    | X    |
|--------------------------|--------|-----|-----|------|------|
| JT TYPE                  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| A - TMWW-p               | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| B - TMWW-l               | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C - TTW-p                | MT20   | 4.0 | 8.0 | Edge |      |
| D - TMWW-l               | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| E - TMWW-p               | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| F - BMV1-p               | MT20   | 3.0 | 4.0 |      |      |
| G - BMWW-l               | MT20   | 4.0 | 8.0 |      |      |
| H - BS-l                 | MT20   | 3.0 | 8.0 |      |      |
| I - BMWW-l               | MT20   | 4.0 | 9.0 |      |      |
| J - BMWW-l               | MT20   | 4.0 | 4.0 |      |      |
| 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  | RECORD     |
|----------------|------------------|--------|------------|
| GROSS REACTION | GROSS REACTION   | BRG    | BRG        |
| JT VERT        | DOWN             | UPLIFT | IN-SX      |
| K 905 0        | 905 0            | 0 0    | 3.8 3.8    |
| F 905 0        | 905 0            | 0 0    | MECHANICAL |

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

##### UNFACTORED REACTIONS

| 1ST CASE |          | MAX/MIN. COMPONENT REACTIONS |       |            |       |         |       |
|----------|----------|------------------------------|-------|------------|-------|---------|-------|
| JT       | COMBINED | SNOW                         | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| K        | 840      | 420 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 220 / 0 | 0 / 0 |
| F        | 840      | 420 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 220 / 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 = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS        |             |                  |                  | WEBS               |       |             |              |
|---------------|-------------|------------------|------------------|--------------------|-------|-------------|--------------|
| MAX. FACTORED |             | FACTORED         |                  | MAX. FACTORED      |       |             |              |
| MEMB.         | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | FORCE (LBS) | MAX CSI (LC) |
| FR-TO         |             | FROM TO          |                  |                    | FR-TO |             |              |
| A-B           | -772 / 0    | -91.8            | -91.8 0.20 (1)   | 8.25               | J-B   | -135 / 21   | 0.05 (1)     |
| B-C           | -620 / 0    | -91.8            | -91.8 0.19 (1)   | 8.25               | B-I   | -251 / 0    | 0.18 (1)     |
| C-D           | -622 / 0    | -91.8            | -91.8 0.20 (1)   | 8.25               | I-C   | 0 / 478     | 0.11 (1)     |
| D-E           | -795 / 0    | -91.8            | -91.8 0.21 (1)   | 8.25               | I-D   | -278 / 0    | 0.20 (1)     |
| K-A           | -873 / 0    | 0.0              | 0.0 0.10 (1)     | 7.81               | G-D   | -110 / 31   | 0.04 (1)     |
| F-E           | -872 / 0    | 0.0              | 0.0 0.09 (1)     | 7.81               | A-J   | 0 / 653     | 0.15 (1)     |
|               |             |                  |                  |                    | G-E   | 0 / 682     | 0.15 (1)     |
| K-J           | 0 / 0       | -18.5            | -18.5 0.07 (4)   | 10.00              |       |             |              |
| J-I           | 0 / 815     | -18.5            | -18.5 0.13 (1)   | 10.00              |       |             |              |
| I-H           | 0 / 633     | -18.5            | -18.5 0.14 (1)   | 10.00              |       |             |              |
| H-G           | 0 / 633     | -18.5            | -18.5 0.14 (1)   | 10.00              |       |             |              |
| G-F           | 0 / 0       | -18.5            | -18.5 0.07 (4)   | 10.00              |       |             |              |

TOTAL WEIGHT = 77 lb

##### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, 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
- TPO 2011, TPO 2014

155 % 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) =  $L/360$  (0.55")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.55")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.03")

CS1: TC=0.21/1.00 (D-E:1), BC=0.14/1.00 (G-I:1), WB=0.20/1.00 (D-I:1), SS=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

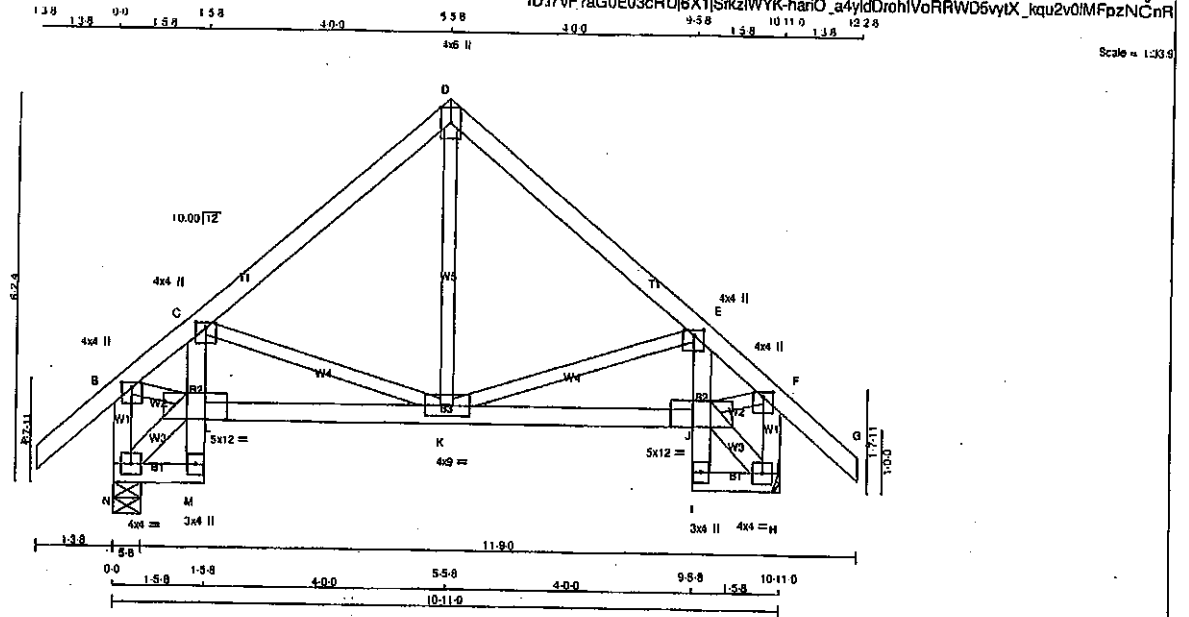
JSI GRIP = 0.87 (E) (INPUT = 0.90)  
JSI METAL = 0.24 (E) (INPUT = 1.00)



Structural component only  
DWG# T-2007072

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408150                          | T10S       | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |         |      |     |                |
|-----------------------------|---------|------|-----|----------------|
| JT TYPE                     | PLATES  | W    | LEN | Y X            |
| B, C, E, F                  |         |      |     |                |
| B                           | TMVW+p  | MT20 | 4.0 | 4.0 1.00 2.00  |
| D                           | TTW+p   | MT20 | 4.0 | 8.0 Edge       |
| H                           | BMVW1-i | MT20 | 4.0 | 4.0            |
| I                           | BMV+p   | MT20 | 3.0 | 4.0            |
| J                           | BMVW1-i | MT20 | 5.0 | 12.0 5.00 7.75 |
| K                           | BMVW1-i | MT20 | 4.0 | 9.0            |
| L                           | BMVW1-i | MT20 | 5.0 | 12.0 5.00 7.75 |
| M                           | BMV+p   | MT20 | 3.0 | 4.0            |
| N                           | BMVW1-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

| FACTORED       |       | MAXIMUM FACTORED |       | INPUT  |            | REQD  |  |
|----------------|-------|------------------|-------|--------|------------|-------|--|
| GROSS REACTION |       | GROSS REACTION   |       | BRG    |            | BRG   |  |
| JT             | HORIZ | DOWN             | HORIZ | UPLIFT | IN-SX      | IN-SX |  |
| N              | 729   | 0                | 729   | 0      | 5-8        | 5-8   |  |
| H              | 729   | 0                | 729   | 0      | MECHANICAL |       |  |

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

| UNFACTORED REACTIONS |          | MAX/MIN. COMPONENT REACTIONS |      |
|----------------------|----------|------------------------------|------|
| JT                   | COMBINED | SNOW                         | LIVE |
| N                    | 513      | 350/0                        | 0/0  |
| H                    | 513      | 350/0                        | 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 = 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) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |  |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |  |
| A-B    | 0/41                      | -91.8 -91.8 0.13 (1)      | 10.00                     | C-K   | -211/0                    | 0.07 (1)                  |  |
| B-C    | -847/0                    | -91.8 -91.8 0.14 (1)      | 8.25                      | K-D   | 0/229                     | 0.05 (1)                  |  |
| C-D    | -447/0                    | -91.8 -91.8 0.19 (1)      | 6.25                      | K-E   | -210/0                    | 0.07 (1)                  |  |
| D-E    | -447/0                    | -91.8 -91.8 0.18 (1)      | 6.25                      | N-L   | -26/0                     | 0.00 (1)                  |  |
| E-F    | -848/0                    | -91.8 -91.8 0.14 (1)      | 8.25                      | B-L   | 0/527                     | 0.12 (1)                  |  |
| F-G    | 0/41                      | -91.8 -91.8 0.13 (1)      | 10.00                     | J-F   | 0/526                     | 0.12 (1)                  |  |
| N-B    | -701/0                    | 0.0 0.0 0.07 (1)          | 7.81                      | J-H   | -26/0                     | 0.00 (1)                  |  |
| H-F    | -701/0                    | 0.0 0.0 0.07 (1)          | 7.81                      |       |                           |                           |  |
| N-M    | 0/20                      | -18.5 -18.5 0.01 (4)      | 10.00                     |       |                           |                           |  |
| M-L    | 0/14                      | 0.0 0.0 0.03 (1)          | 10.00                     |       |                           |                           |  |
| L-C    | -82/2                     | 0.0 0.0 0.02 (1)          | 7.81                      |       |                           |                           |  |
| L-K    | 0/528                     | -18.5 -18.5 0.13 (1)      | 10.00                     |       |                           |                           |  |
| K-J    | 0/627                     | -18.5 -18.5 0.13 (1)      | 10.00                     |       |                           |                           |  |
| J-I    | 0/14                      | 0.0 0.0 0.03 (1)          | 10.00                     |       |                           |                           |  |
| J-E    | -83/2                     | 0.0 0.0 0.02 (1)          | 7.81                      |       |                           |                           |  |
| I-H    | 0/20                      | -18.5 -18.5 0.01 (4)      | 10.00                     |       |                           |                           |  |

TOTAL WEIGHT = 2 X 56 = 112 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

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

DESIGN ASSUMPTIONS  
OVERHANG NOT TO BE ALTERED OR CUT OFF.

(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 (0.38")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.38")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.19/1.00 (C-D:1), BC=0.13/1.00 (K-L:1), WB=0.12/1.00 (B-L:1), SSI=0.13/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PS) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

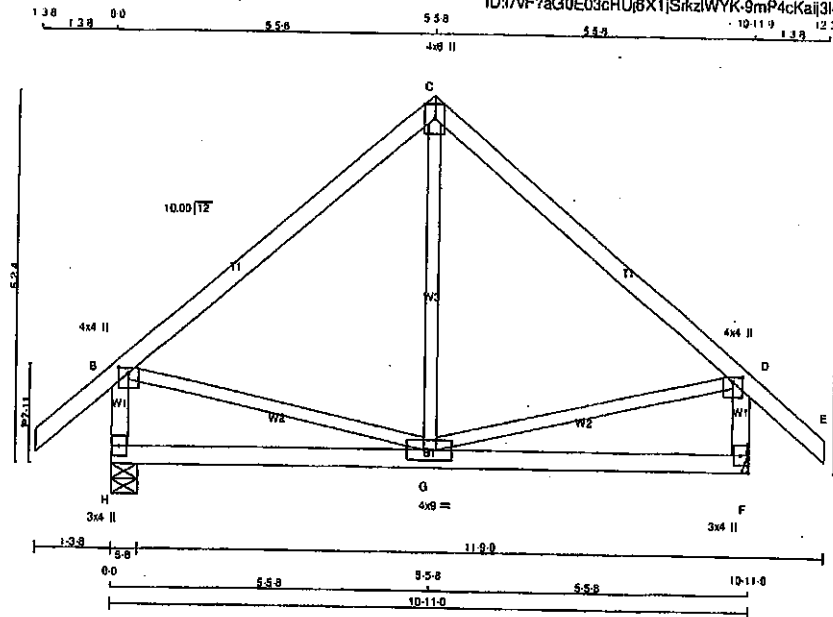
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.74 (F) (INPUT = 0.80)  
JSI METAL = 0.20 (F) (INPUT = 1.00)



Structural component only  
DWG# T-2007073

|                                 |            |          |     |             |                  |          |
|---------------------------------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408150                          | T11        | 1        | 1   | TRUSS DESC. |                  |          |
| Tamarack Roof Truss, Burlington |            |          |     |             |                  |          |



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

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (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-t | MT20   | 4.0 | 9.0 |      |      |
| H BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| H  | 729                     | 0                               | 0         | 5-8      |
| F  | 729                     | 0                               | 729       | 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 | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|-------|-------|------------|-------|---------|-------|
| H  | 513      | 350 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 163 / 0 | 0 / 0 |
| F  | 513      | 350 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 163 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                     | WEBS  |                           |              |          |
|--------|---------------------------|---------------------------|---------------------|-------|---------------------------|--------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS (LC) UNBRAC | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CS (LC) |          |
| FR-TO  |                           | FROM                      | TO                  | FR-TO |                           |              |          |
| A-B    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)      | 10.00 | G-C                       | -15 / 89     | 0.03 (4) |
| B-C    | -380 / 0                  | -91.8                     | -91.8 0.35 (1)      | 6.25  | B-G                       | 0 / 300      | 0.07 (1) |
| C-D    | -380 / 0                  | -91.8                     | -91.8 0.35 (1)      | 6.25  | G-D                       | 0 / 300      | 0.07 (1) |
| D-E    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)      | 10.00 |                           |              |          |
| H-B    | -680 / 0                  | 0.0                       | 0.0 0.07 (1)        | 7.81  |                           |              |          |
| F-D    | -680 / 0                  | 0.0                       | 0.0 0.07 (1)        | 7.81  |                           |              |          |
| H-G    | 0 / 0                     | -18.5                     | -18.5 0.18 (4)      | 10.00 |                           |              |          |
| G-F    | 0 / 0                     | -18.5                     | -18.5 0.18 (4)      | 10.00 |                           |              |          |

TOTAL WEIGHT = 49 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/C

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

##### THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) =  $L/360$  (0.38")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.38")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.02")

CSI:  $TC=0.35/1.00$  (B-C:1),  $BC=0.18/1.00$  (G-H:4),  
 $WB=0.07/1.00$  (D-G:1),  $SSI=0.15/1.00$  (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

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

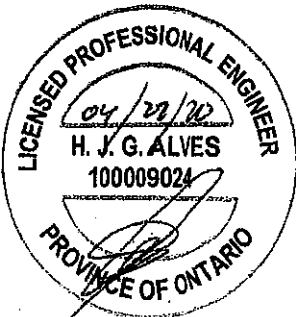
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

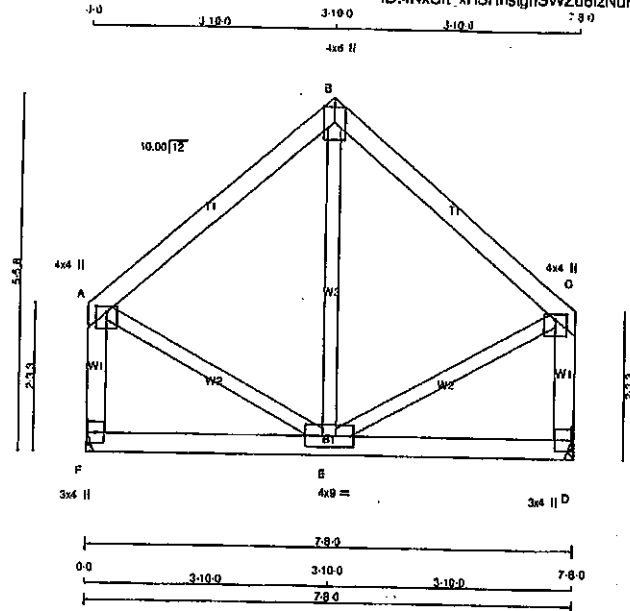
JSI GRIP = 0.62 (D) (INPUT = 0.90)  
JSI METAL = 0.17 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2007074

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408150                          | T12        | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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ID:4NxGlt\_xHSHnstgnSWZu6izNuP6-59Xq1?cyEg?oiFQsAw788rjPP4ZbxCqUb\_u0s8zNCnO



Scale = 1/32.5

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| B  | TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| C  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| D  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| E  | BMVWW+p | MT20   | 4.0 | 9.0 |      |      |
| F  | 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

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| F  | 423 0                   | 423 0                           | 0         | 0        |
| D  | 423 0                   | 423 0                           | 0         | 0        |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM LIVE | WIND  | DEAD    | SOIL  |
|----|----------|------------------------------|-------|-------|-----------|-------|---------|-------|
| F  | 299      | 198 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 103 / 0 | 0 / 0 |
| D  | 299      | 198 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 103 / 0 | 0 / 0 |

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED   | MAX     | MEMB.    | MAX. FACTORED | WEBS  | MAX. FACTORED |
|--------|---------------|------------|---------|----------|---------------|-------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD | LC1 MAX | CS1 (LC) | UNBRAC        | MEMB. | FORCE MAX     |
| FR-TO  |               | FROM       | TO      | LENGTH   | FR-TO         |       |               |
| A-B    | -214 / 0      | -91.8      | -91.8   | 0.17 (1) | 6.25          | E-B   | -78 / 37      |
| B-C    | -214 / 0      | -91.8      | -91.8   | 0.17 (1) | 6.25          | A-E   | 0 / 184       |
| F-A    | -385 / 0      | 0.0        | 0.0     | 0.05 (1) | 7.81          | E-C   | 0 / 184       |
| D-C    | -385 / 0      | 0.0        | 0.0     | 0.05 (1) | 7.81          |       |               |
| F-E    | 0 / 0         | -18.5      | -18.5   | 0.08 (4) | 10.00         |       |               |
| E-D    | 0 / 0         | -18.5      | -18.5   | 0.08 (4) | 10.00         |       |               |

TOTAL WEIGHT = 35 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 BCBC 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) =  $L/360$  (0.26")  
CALCULATED VERT. DEFL. (LL) =  $L/899$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.26")  
CALCULATED VERT. DEFL. (TL) =  $L/899$  (0.01")

CSI: TC=0.17/1.00 (B-C:1), BC=0.08/1.00 (D-E:4),  
WB=0.04/1.00 (A-E:1), SSI=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

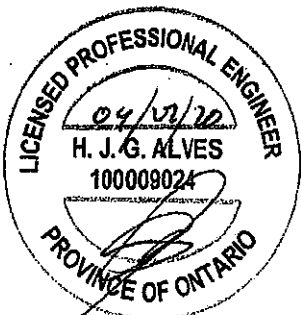
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

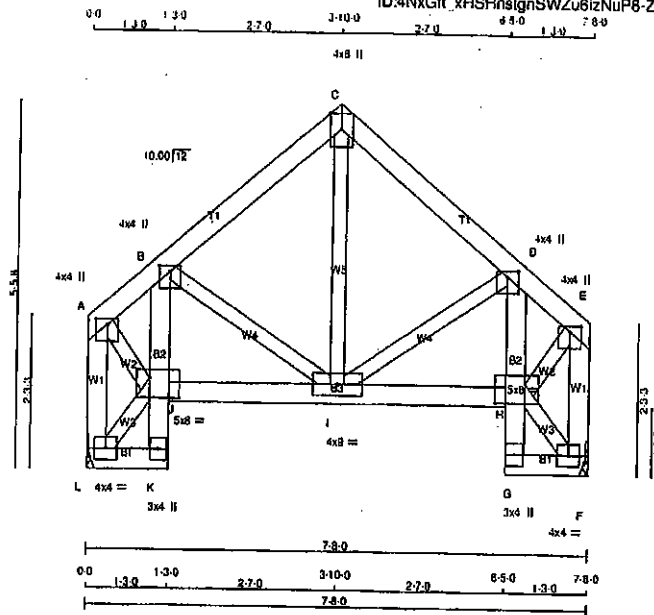
JSI GRIP = 0.31 (C) (INPUT = 0.90)  
JSI METAL = 0.09 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007075



|                                 |            |                                                                                   |     |                  |          |
|---------------------------------|------------|-----------------------------------------------------------------------------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY                                                                          | PLY | JOB DESC.        | DRWG NO. |
| 408150                          | T12S       | 2                                                                                 | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Sat Apr 25 11:03:02 2020 Page 1 |     |                  |          |
|                                 |            | ID:4NxGr_xHSHnsgnSWZu8izNuP8-ZL5CEldg? 7IKP73keWNg3GbiUw7geceqedZObzNCnN          |     |                  |          |
|                                 |            | Scale = 1:31.0                                                                    |     |                  |          |



| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - C             | 2x4    | DRY  | No.2   |
| C - E             | 2x4    | DRY  | No.2   |
| L - A             | 2x4    | DRY  | No.2   |
| F - E             | 2x4    | DRY  | No.2   |
| L - K             | 2x4    | DRY  | No.2   |
| K - B             | 2x4    | DRY  | No.2   |
| J - H             | 2x4    | DRY  | No.2   |
| G - D             | 2x4    | DRY  | No.2   |
| G - F             | 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    |
|------------|---------|--------|-----|-----|------|------|
| A, B, D, E |         |        |     |     |      |      |
| A          | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C          | TTW+p   | MT20   | 4.0 | 8.0 | Edge |      |
| F          | BMVW-1  | MT20   | 4.0 | 4.0 |      |      |
| G          | BMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H          | BVMWV-1 | MT20   | 5.0 | 8.0 | 3.50 | 5.50 |
| I          | BVMWV-1 | MT20   | 4.0 | 9.0 |      |      |
| J          | BVMWV-1 | MT20   | 5.0 | 8.0 | 3.50 | 5.50 |
| K          | BMV+p   | MT20   | 3.0 | 4.0 |      |      |
| L          | BMVW-1  | MT20   | 4.0 | 4.0 |      |      |

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

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

| FACTORED |                | MAXIMUM FACTORED |                | INPUT |     | REQD       |            |
|----------|----------------|------------------|----------------|-------|-----|------------|------------|
| JT       | GROSS REACTION | JT               | GROSS REACTION | BRG   | BRG | BRG        | BRG        |
| L        | 423            | 0                | 423            | 0     | 0   | MECHANICAL | IN-SX      |
| F        | 423            | 0                | 423            | 0     | 0   | MECHANICAL | MECHANICAL |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX./MIN. | COMPONENT REACTIONS |           |       |         |       |
|----|----------|-----------|---------------------|-----------|-------|---------|-------|
| L  | 299      | 196 / 0   | 0 / 0               | PERM LIVE | WIND  | DEAD    | SOIL  |
| F  | 299      | 196 / 0   | 0 / 0               | 0 / 0     | 0 / 0 | 103 / 0 | 0 / 0 |

#### 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 |                  | FACTORED         |                | WEBS  |                  | MAX. FACTORED |           |
|--------|------------------|------------------|----------------|-------|------------------|---------------|-----------|
| MEMB.  | MAX. FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX (LC)   | MEMB. | MAX. FORCE (LBS) | MAX. (LBS)    | MAX. (LC) |
| FR-TO  |                  | FROM             | TO             | FR-TO |                  |               |           |
| A-B    | -282 / 0         | -91.8            | -91.8 0.08 (1) | 8.25  | I-O              | 0 / 125       | 0.03 (1)  |
| B-C    | -274 / 0         | -91.8            | -91.8 0.07 (1) | 6.25  | I-D              | -57 / 0       | 0.01 (1)  |
| C-D    | -274 / 0         | -91.8            | -91.8 0.07 (1) | 6.25  | B-I              | -57 / 0       | 0.01 (1)  |
| D-E    | -282 / 0         | -91.8            | -91.8 0.08 (1) | 6.25  | L-J              | -13 / 0       | 0.00 (1)  |
| L-A    | -404 / 0         | 0.0              | 0.0 0.05 (1)   | 7.81  | A-J              | 0 / 317       | 0.07 (1)  |
| F-E    | -404 / 0         | 0.0              | 0.0 0.05 (1)   | 7.81  | H-F              | -13 / 0       | 0.00 (1)  |
|        |                  |                  |                |       | H-E              | 0 / 317       | 0.07 (1)  |
| L-K    | 0 / 9            | -18.5            | -18.5 0.01 (4) | 10.00 |                  |               |           |
| K-J    | 0 / 11           | 0.0              | 0.0 0.01 (1)   | 10.00 |                  |               |           |
| J-B    | -182 / 0         | 0.0              | 0.0 0.01 (1)   | 7.81  |                  |               |           |
| J-I    | 0 / 247          | -18.5            | -18.5 0.08 (1) | 10.00 |                  |               |           |
| I-H    | 0 / 247          | -18.5            | -18.5 0.08 (1) | 10.00 |                  |               |           |
| G-H    | 0 / 11           | 0.0              | 0.0 0.01 (1)   | 10.00 |                  |               |           |
| H-D    | -182 / 0         | 0.0              | 0.0 0.01 (1)   | 7.81  |                  |               |           |
| G-F    | 0 / 9            | -18.5            | -18.5 0.01 (4) | 10.00 |                  |               |           |

TOTAL WEIGHT = 2 X 43 = 85 lb (M/F)

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. 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 BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.26")  
CALCULATED VERT. DEFL. (LL) = L/899 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.26")  
CALCULATED VERT. DEFL. (TL) = L/899 (0.01")

CSI: TC=0.07/1.00 (C-D:1), BC=0.08/1.00 (H-I:1), WB=0.07/1.00 (A-J:1), SS=0.09/1.00 (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

AUTOSOLVE HEELS OFF

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

NAIL VALUES  
PLATE GRIP (DRY) SHEAR SECTION (PSB) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 768 1987 1636

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

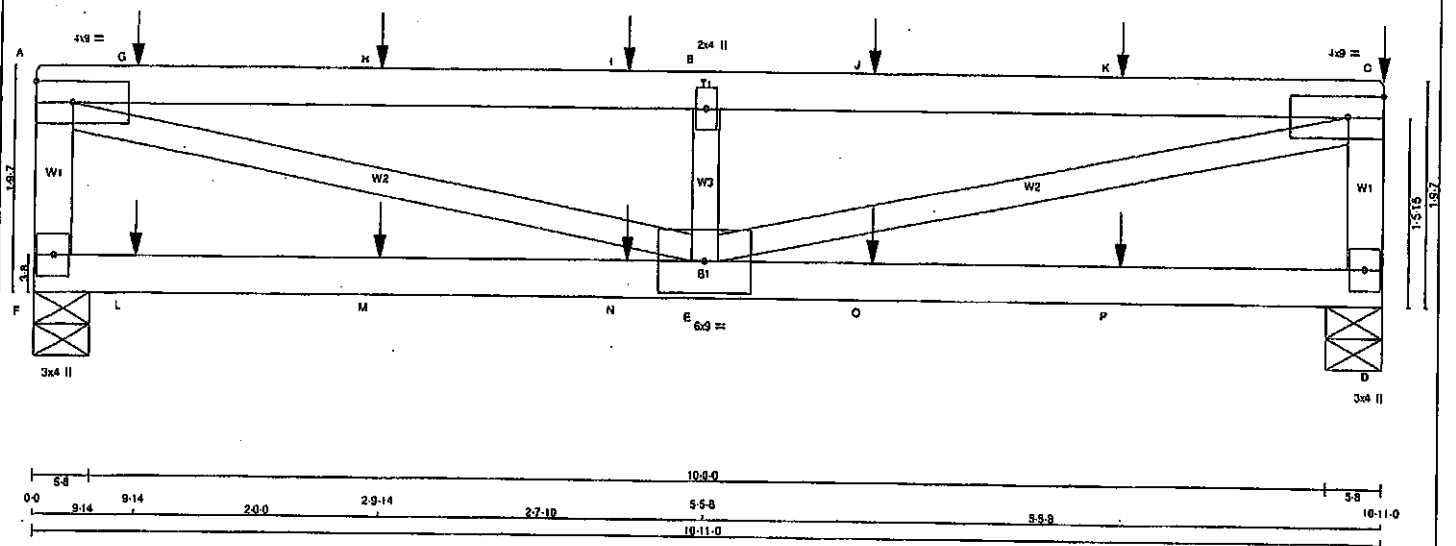
JSI GRIP = 0.30 (E) (INPUT = 0.90)  
JSI METAL = 0.08 (E) (INPUT = 1.00)



Structural component only  
DWG# T-2007076

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408150              | TRUSS NAME<br>T15 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                               |          |

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Sat Apr 25 11:03:03 2020 Page 1  
ID: i7vfaG0E03cRUj6X1iSkzWYK-1XfbSheCmIFWYzafIL1cDGpbHuDpP\_en2IN7x1zNCnM  
10-10-10 10-11-0  
94  
Scale = 1:18.8



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

DRY: SEASONED LUMBER.

| PLATES (table in inches) | W      | LEN | Y   | X    |
|--------------------------|--------|-----|-----|------|
| JT TYPE                  | PLATES |     |     |      |
| A TMW-1                  | MT20   | 4.0 | 9.0 | Edge |
| B TMW-w                  | MT20   | 2.0 | 4.0 |      |
| C TMW-1                  | MT20   | 4.0 | 9.0 | Edge |
| D BMW1-p                 | MT20   | 3.0 | 4.0 |      |
| E BMWWW-1                | MT20   | 6.0 | 9.0 |      |
| F BMW1-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 | IN-SX | IN-SX  | IN-SX |
| F        | 976  | 0        | 976  | 0                | 0      | 5-8   | 5-8   | 5-8    | 5-8   |
| D        | 1015 | 0        | 1015 | 0                | 0      | 5-8   | 5-8   | 5-8    | 5-8   |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS | WIND | DEAD  | SOIL |
|----|----------|---------|---------------------|------|-------|------|
| F  | 690      | 453/0   | 0/0                 | 0/0  | 237/0 | 0/0  |
| D  | 716      | 478/0   | 0/0                 | 0/0  | 237/0 | 0/0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.55 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) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED HORZ. LOAD (LBS) |
| FR-TO  |                           |                                |                                |
| A-G    | -2081/0                   | -91.8                          | -91.8 0.79 (1)                 |
| G-H    | -2081/0                   | -91.8                          | -91.8 0.79 (1)                 |
| H-I    | -2081/0                   | -91.8                          | -91.8 0.79 (1)                 |
| I-B    | -2081/0                   | -91.8                          | -91.8 0.79 (1)                 |
| B-J    | -2081/0                   | -91.8                          | -91.8 0.79 (1)                 |
| J-K    | -2081/0                   | -91.8                          | -91.8 0.79 (1)                 |
| K-C    | -2081/0                   | -91.8                          | -91.8 0.79 (1)                 |
| F-A    | -869/0                    | 0.0                            | 0.0 0.10 (1)                   |
| D-C    | -936/0                    | 0.0                            | 0.0 0.11 (1)                   |
| F-L    | 0/0                       | -18.5                          | -18.5 0.22 (4)                 |
| L-M    | 0/0                       | -18.5                          | -18.5 0.22 (4)                 |
| M-N    | 0/0                       | -18.5                          | -18.5 0.22 (4)                 |
| N-E    | 0/0                       | -18.5                          | -18.5 0.22 (4)                 |
| E-O    | 0/0                       | -18.5                          | -18.5 0.22 (4)                 |
| O-P    | 0/0                       | -18.5                          | -18.5 0.22 (4)                 |
| P-D    | 0/0                       | -18.5                          | -18.5 0.22 (4)                 |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| C  | 10-11-0 | -123 | -123 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| G  | 9-14    | -90  | -90  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| H  | 2-9-14  | -82  | -82  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| I  | 4-9-14  | -82  | -82  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| J  | 6-9-14  | -82  | -82  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| K  | 8-9-14  | -82  | -82  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| L  | 9-14    | -51  | -51  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| M  | 2-9-14  | -49  | -49  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| N  | 4-9-14  | -49  | -49  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| O  | 6-9-14  | -49  | -49  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| P  | 8-9-14  | -49  | -49  | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 37 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, NBCC 2010, NSCC 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.36")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (0.36")  
CALCULATED VERT. DEFL.(TL) = L/817 (0.16")

CS: TC=0.79/1.00 (A-B:1), BC=0.22/1.00 (E-F:4),  
WB=0.53/1.00 (A-E:1), SSI=0.39/1.00 (A-B: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.

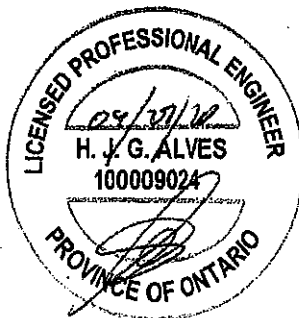
#### NAIL VALUES

PLATE GRP(DRY) SHEAR SECTION  
(PSI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1967 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

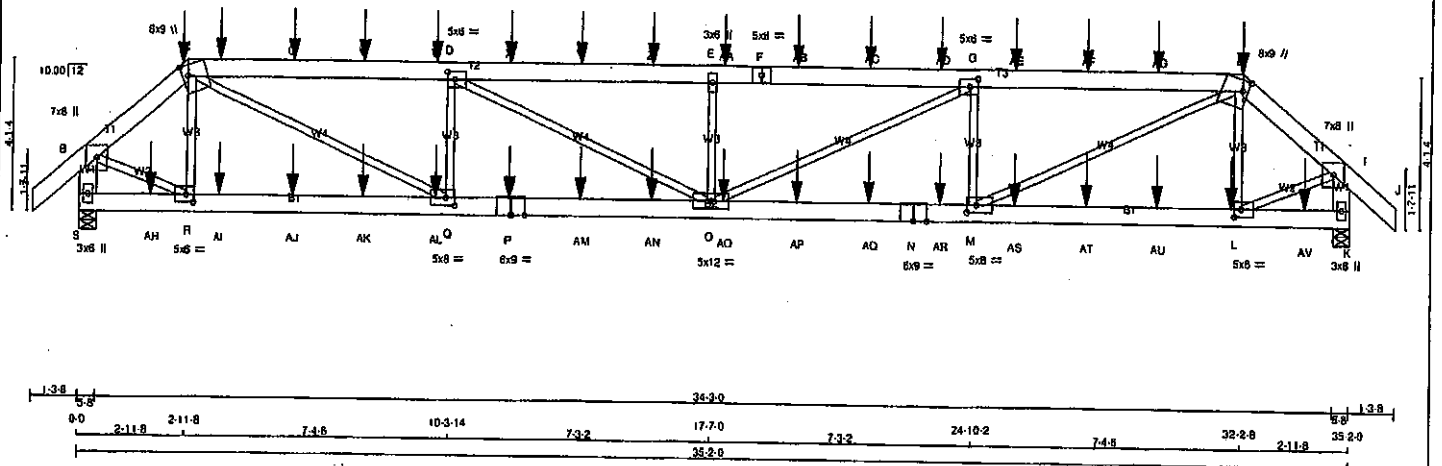
JSI GRP= 0.89 (A) (INPUT = 0.80)  
JSI METAL= 0.40 (E) (INPUT = 1.00)



Structural component only  
DWG# T-2007077

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408151</b>       | TRUSS NAME<br><b>T20</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.                          |          |

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ID:h2dflgC44wS\_E2tzqPs\_atzIRw-E6a?Xz51rNUYObaR4VLHmmlPQqOS/27EXMbZWzNXC



| 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 - L  | 2x6               | DRY    | No.2       | SPF    |        |
| L - N  | 2x6               | DRY    | No.2       | SPF    |        |
| N - K  | 2x6               | DRY    | No.2       | SPF    |        |
| S - P  | 2x6               | DRY    | 1650F 1.5E | SPF    |        |
| P - N  | 2x6               | DRY    | 1650F 1.5E | SPF    |        |
| N - K  | 2x6               | DRY    | 1650F 1.5E | SPF    |        |

ALL WEBS 2x3 DRY No.2  
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                              |                      | SIDE (122.0) |
| C - F 2 12                              |                      | SIDE (81.0)  |
| F - H 2 12                              |                      | SIDE (81.0)  |
| H - J 2 12                              |                      | SIDE (122.0) |
| J - L 2 12                              |                      | SIDE (122.0) |
| L - N 2 12                              |                      | SIDE (122.0) |
| N - K 2 12                              |                      | SIDE (122.0) |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |              |
| S - P 2 12                              |                      | SIDE (0.0)   |
| P - N 2 12                              |                      | SIDE (0.0)   |
| 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 |      | MAXIMUM FACTORED |      | INPUT  |       | RECORD |     |
|----------|----------------|----------|------|------------------|------|--------|-------|--------|-----|
| JT       | GROSS REACTION | VERT     | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | BRG    | BRG |
| S        | 3330           | 0        | 0    | 3330             | 0    | 0      | 5-8   | 5-8    | 5-8 |
| K        | 3379           | 0        | 0    | 3379             | 0    | 0      | 5-8   | 5-8    | 5-8 |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|-------|-------|------------|-------|---------|-------|
| S  | 2354     | 1853 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 801 / 0 | 0 / 0 |
| K  | 2398     | 1572 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 816 / 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 |             | FACTORED         |            | MAX. FACTORED |                 | WEBS  |             | MAX. FACTORED |            |
|--------|-------------|------------------|------------|---------------|-----------------|-------|-------------|---------------|------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. (LC1) | MAX. (LC2)    | UNBRACED LENGTH | MEMB. | FORCE (LBS) | MAX. (LC1)    | MAX. (LC2) |
| FR-TO  |             | FROM             | TO         |               |                 | FR-TO |             |               |            |
| A-B    | 0 / 42      | -91.8            | -91.8      | 0.04 (1)      | 10.00           | R-C   | -662 / 0    | 0.08 (1)      | 0.08 (1)   |
| B-C    | -3359 / 0   | -91.8            | -91.8      | 0.05 (1)      | 8.03            | C-Q   | 0 / 4522    | 0.56 (1)      | 0.56 (1)   |
| C-T    | -6608 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            | Q-D   | -1799 / 0   | 0.22 (1)      | 0.22 (1)   |
| T-U    | -6606 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            | D-O   | 0 / 1375    | 0.17 (1)      | 0.17 (1)   |
| U-V    | -6606 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            | O-E   | -990 / 0    | 0.12 (1)      | 0.12 (1)   |
| V-W    | -6606 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            | E-G   | 0 / 1368    | 0.17 (1)      | 0.17 (1)   |
| W-D    | -6606 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            | M-G   | -1788 / 0   | 0.21 (1)      | 0.21 (1)   |
| D-X    | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            | M-H   | 0 / 4493    | 0.58 (1)      | 0.58 (1)   |
| X-Y    | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            | L-H   | -873 / 0    | 0.08 (1)      | 0.08 (1)   |
| Y-Z    | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            | B-R   | 0 / 2729    | 0.34 (1)      | 0.34 (1)   |
| Z-E    | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            | L-I   | 0 / 2764    | 0.34 (1)      | 0.34 (1)   |
| E-AA   | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            |       |             |               |            |
| AA-F   | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            |       |             |               |            |
| F-AB   | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            |       |             |               |            |
| AB-AC  | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            |       |             |               |            |
| AC-AD  | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            |       |             |               |            |
| AD-G   | -7835 / 0   | -91.8            | -91.8      | 0.42 (1)      | 3.98            |       |             |               |            |
| G-AE   | -6612 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            |       |             |               |            |
| AE-AF  | -6612 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            |       |             |               |            |
| AF-AG  | -6612 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            |       |             |               |            |
| AG-H   | -6612 / 0   | -91.8            | -91.8      | 0.38 (1)      | 4.32            |       |             |               |            |
| H-I    | -3401 / 0   | -91.8            | -91.8      | 0.05 (1)      | 6.00            |       |             |               |            |
| I-J    | 0 / 42      | -91.8            | -91.8      | 0.04 (1)      | 10.00           |       |             |               |            |
| S-B    | -3368 / 0   | 0.0              | 0.0        | 0.12 (1)      | 7.58            |       |             |               |            |
| K-I    | -3408 / 0   | 0.0              | 0.0        | 0.12 (1)      | 7.55            |       |             |               |            |

|       |        |       |       |          |       |
|-------|--------|-------|-------|----------|-------|
| S-AH  | 0.0    | -18.5 | -18.5 | 0.06 (4) | 10.00 |
| AH-R  | 0.0    | -18.5 | -18.5 | 0.06 (4) | 10.00 |
| R-AI  | 0.2546 | -18.5 | -18.5 | 0.16 (1) | 10.00 |
| AI-AJ | 0.2546 | -18.5 | -18.5 | 0.16 (1) | 10.00 |
| AJ-AK | 0.2546 | -18.5 | -18.5 | 0.16 (1) | 10.00 |
| AK-AL | 0.2546 | -18.5 | -18.5 | 0.16 (1) | 10.00 |
| AL-Q  | 0.2546 | -18.5 | -18.5 | 0.16 (1) | 10.00 |
| Q-P   | 0.6808 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| P-AM  | 0.6808 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| AM-AN | 0.6808 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| AN-O  | 0.6808 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| O-AO  | 0.6813 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| AO-AP | 0.6813 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| AP-AQ | 0.6813 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| AQ-N  | 0.6813 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| N-AR  | 0.6813 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| AR-M  | 0.6813 | -18.5 | -18.5 | 0.32 (1) | 10.00 |

TOTAL WEIGHT = 2 X 183 = 366 lbs

#### 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 6.0/12

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.20")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.42/1.0 (D-E:1), BC=0.32/1.0 (Q-Q:1), WB=0.58/1.0 (Q-Q:1), SS=0.22/1.0 (G-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 HELLS OFF

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

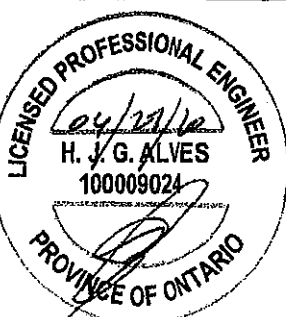
NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLD) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.62 (M) (INPUT = 0.90)  
JSI METAL = 0.52 (P) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only  
DWG# T-2007081 1/2

| PLATES (table is in inches) |         |        |     |      |           |
|-----------------------------|---------|--------|-----|------|-----------|
| JT                          | TYPE    | PLATES | W   | LEN  | Y X       |
| B                           | TMWW+p  | MT20   | 7.0 | 8.0  |           |
| C                           | TTWW+m  | MT20   | 8.0 | 9.0  | 3.50 1.75 |
| D                           | TMWW-l  | MT20   | 5.0 | 6.0  | 2.50 2.50 |
| E                           | TMWW-w  | MT20   | 3.0 | 6.0  |           |
| F                           | YS-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  | 3.50 1.75 |
| I                           | TMWW+p  | MT20   | 7.0 | 8.0  |           |
| K                           | BMV1+p  | MT20   | 3.0 | 6.0  |           |
| L                           | BMWW-l  | MT20   | 5.0 | 6.0  | 2.50 2.25 |
| M                           | BMWW-l  | MT20   | 5.0 | 8.0  | 2.50 3.00 |
| N                           | BS-l    | MT20   | 6.0 | 9.0  |           |
| O                           | BMWWW-l | MT20   | 5.0 | 12.0 |           |
| P                           | BS-l    | MT20   | 6.0 | 9.0  |           |
| Q                           | BMWW-l  | MT20   | 5.0 | 8.0  | 2.50 3.00 |
| R                           | BMWW-l  | MT20   | 5.0 | 6.0  | 2.50 2.25 |
| S                           | BMV1+p  | MT20   | 3.0 | 6.0  |           |

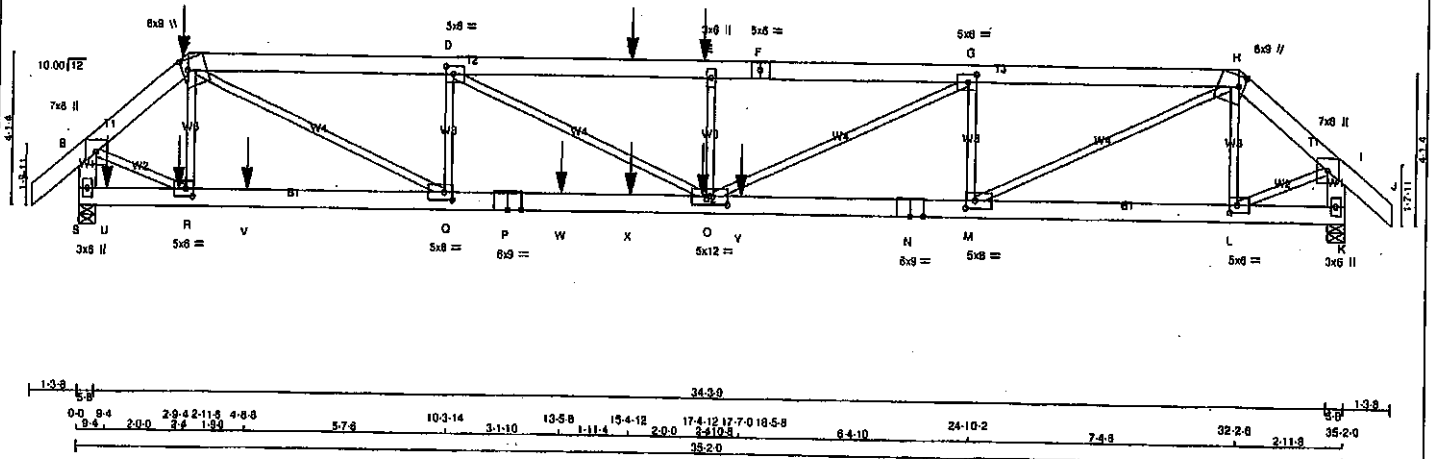
| LOADING                           |         |                           |      |                           |       |               |       |                          |       |
|-----------------------------------|---------|---------------------------|------|---------------------------|-------|---------------|-------|--------------------------|-------|
| TOTAL LOAD CASES: (4)             |         |                           |      |                           |       |               |       |                          |       |
| CHORDS                            |         |                           |      |                           |       |               |       |                          |       |
| MEMB.                             |         | MAX. FACTORED FORCE (LBS) |      | FACTORED VERT. LOAD (PLF) |       | MAX. CSI (LC) |       | WEBS                     |       |
|                                   |         |                           |      | FROM TO                   |       |               |       | MAX. UNBRAC LENGTH FR-TO |       |
| FR-TO                             |         |                           |      |                           |       |               |       |                          |       |
| M-AS                              | 0/2679  |                           |      | -18.5                     | -18.5 | 0.16 (1)      | 10.00 |                          |       |
| AS-AT                             | 0/2679  |                           |      | -18.5                     | -18.5 | 0.16 (1)      | 10.00 |                          |       |
| AT-AU                             | 0/2679  |                           |      | -18.5                     | -18.5 | 0.16 (1)      | 10.00 |                          |       |
| AU-L                              | 0/2679  |                           |      | -18.5                     | -18.5 | 0.16 (1)      | 10.00 |                          |       |
| L-AV                              | 0/0     |                           |      | -18.5                     | -18.5 | 0.06 (4)      | 10.00 |                          |       |
| AV-K                              | 0/0     |                           |      | -18.5                     | -18.5 | 0.06 (4)      | 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                      | -116 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| H                                 | 32-2-8  | -191                      | -191 |                           | FRONT | VERT          | SNOW  |                          | C1    |
| L                                 | 31-11-4 | -28                       | -28  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| P                                 | 11-11-4 | -28                       | -28  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| T                                 | 3-11-4  | -111                      | -111 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| U                                 | 5-11-4  | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| V                                 | 7-11-4  | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| W                                 | 9-11-4  | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| X                                 | 11-11-4 | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| Y                                 | 13-11-4 | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| Z                                 | 15-11-4 | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AA                                | 17-11-4 | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AB                                | 19-11-4 | -110                      | -110 |                           | FRONT | VERT          | TOTAL |                          | C1    |
| 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  | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AI                                | 3-11-4  | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AJ                                | 5-11-4  | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AK                                | 7-11-4  | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AL                                | 9-11-4  | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AM                                | 13-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AN                                | 15-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AO                                | 17-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AP                                | 19-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AQ                                | 21-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AR                                | 23-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AS                                | 25-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AT                                | 27-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AU                                | 29-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |
| AV                                | 33-11-4 | -26                       | -26  |                           | FRONT | VERT          | TOTAL |                          | C1    |

**CONNECTION REQUIREMENTS**

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



|                                                                         |                           |                      |                 |                                                                                   |          |
|-------------------------------------------------------------------------|---------------------------|----------------------|-----------------|-----------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>408151</b>                                               | TRUSS NAME<br><b>T20Z</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                                         |                           |                      |                 | Version 8.310 S Oct 29 2019 MTak Industries, Inc. Sat Apr 25 11:19:45 2020 Page 1 |          |
| ID:h2dlgC44ws E2tzoPs_atzllRw-ijCOUmk09VL9YAq n0aqaJuZo4EB5KGTB585yzNXX |                           |                      |                 | Scale = 1:57.3                                                                    |          |



| LUMBER   | N. L. G. A. RULES | CHORDS | SIZE       | DRY | LUMBER | DESCR. |
|----------|-------------------|--------|------------|-----|--------|--------|
| A - C    | 2x8               | DRY    | No. 2      | SPF |        |        |
| C - 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    | 1650F 1.5E | SPF |        |        |
| P - N    | 2x8               | DRY    | 1650F 1.5E | SPF |        |        |
| N - K    | 2x8               | DRY    | 1650F 1.5E | 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 SIDE (122.0)

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 SIDE (183.1)

P-N 2 12 SIDE (183.1)

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 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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| S  | 4991                    | 0    | 4991                            | 0    | 5-8       | 5-8      |
| K  | 3694                    | 0    | 3694                            | 0    | 5-8       | 5-8      |

| JT | UNFACTORED REACTIONS |          | MAX. MIN. COMPONENT REACTIONS |            | WIND  | DEAD     | SOIL  |
|----|----------------------|----------|-------------------------------|------------|-------|----------|-------|
|    | 1ST LCASE COMBINED   | SNOW     | LIVE                          | PERM. LIVE |       |          |       |
| S  | 3528                 | 2323 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 1208 / 0 | 0 / 0 |
| K  | 2608                 | 1737 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 871 / 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 = 3.20 FT.

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

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

| LOADING |                           |                           |                        | TOTAL LOAD CASES: (4) |                           |                        |          |
|---------|---------------------------|---------------------------|------------------------|-----------------------|---------------------------|------------------------|----------|
| CHORDS  |                           |                           |                        | WEBS                  |                           |                        |          |
| MEMB.   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED CS (LBS) | MEMB.                 | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CS (LBS) |          |
| FR-TO   |                           |                           |                        | FR-TO                 |                           |                        |          |
| A-B     | 0 / 42                    | -91.8                     | -91.8 0.04 (1)         | 10.00                 | P-C                       | -253 / 44              | 0.03 (1) |
| B-C     | -5342 / 0                 | -91.8                     | -91.8 0.07 (1)         | 5.02                  | C-Q                       | 0 / 6589               | 0.81 (1) |
| C-D     | -9971 / 0                 | -91.8                     | -91.8 0.39 (1)         | 3.64                  | Q-D                       | -1858 / 0              | 0.23 (1) |
| D-T     | -12379 / 0                | -91.8                     | -91.8 0.52 (1)         | 3.20                  | D-O                       | 0 / 2894               | 0.33 (1) |
| T-E     | -12379 / 0                | -91.8                     | -91.8 0.52 (1)         | 3.20                  | O-E                       | -782 / 0               | 0.09 (1) |
| E-F     | -12379 / 0                | -91.8                     | -91.8 0.49 (1)         | 3.23                  | O-G                       | 0 / 4229               | 0.52 (1) |
| F-G     | -12379 / 0                | -91.8                     | -91.8 0.49 (1)         | 3.23                  | M-G                       | -2619 / 0              | 0.31 (1) |
| G-H     | -8599 / 0                 | -91.8                     | -91.8 0.33 (1)         | 3.83                  | M-H                       | 0 / 6416               | 0.79 (1) |
| H-I     | -3750 / 0                 | -91.8                     | -91.8 0.06 (1)         | 5.79                  | L-H                       | -864 / 0               | 0.10 (1) |
| I-J     | 0 / 42                    | -91.8                     | -91.8 0.04 (1)         | 10.00                 | B-R                       | 0 / 4341               | 0.54 (1) |
| S-B     | -5197 / 0                 | 0.0                       | 0.0 0.19 (1)           | 8.41                  | L-I                       | 0 / 3047               | 0.38 (1) |
| K-I     | -3727 / 0                 | 0.0                       | 0.0 0.13 (1)           | 7.30                  |                           |                        |          |
| S-U     | 0 / 0                     | -18.5                     | -18.5 0.20 (1)         | 10.00                 |                           |                        |          |
| U-R     | 0 / 0                     | -18.5                     | -18.5 0.20 (1)         | 10.00                 |                           |                        |          |
| R-V     | 0 / 4073                  | -18.5                     | -18.5 0.36 (1)         | 10.00                 |                           |                        |          |
| V-Q     | 0 / 4073                  | -18.5                     | -18.5 0.36 (1)         | 10.00                 |                           |                        |          |
| Q-P     | 0 / 9971                  | -18.5                     | -18.5 0.73 (1)         | 10.00                 |                           |                        |          |
| P-W     | 0 / 9971                  | -18.5                     | -18.5 0.73 (1)         | 10.00                 |                           |                        |          |
| W-X     | 0 / 9971                  | -18.5                     | -18.5 0.73 (1)         | 10.00                 |                           |                        |          |
| X-O     | 0 / 9971                  | -18.5                     | -18.5 0.73 (1)         | 10.00                 |                           |                        |          |
| O-Y     | 0 / 8800                  | -18.5                     | -18.5 0.58 (1)         | 10.00                 |                           |                        |          |
| Y-N     | 0 / 8800                  | -18.5                     | -18.5 0.58 (1)         | 10.00                 |                           |                        |          |
| N-M     | 0 / 8800                  | -18.5                     | -18.5 0.58 (1)         | 10.00                 |                           |                        |          |
| M-L     | 0 / 2839                  | -18.5                     | -18.5 0.16 (1)         | 10.00                 |                           |                        |          |
| L-K     | 0 / 0                     | -18.5                     | -18.5 0.05 (1)         | 10.00                 |                           |                        |          |

| FACTORED CONCENTRATED LOADS (LBS) |         |       |       |
|-----------------------------------|---------|-------|-------|
| JT                                | LOC.    | LC1   | MAX.  |
| Q                                 | 2-11-8  | -38   | -42   |
| C                                 | 2-11-8  | -117  | -117  |
| C                                 | 2-11-8  | -191  | -191  |
| E                                 | 17-4-12 | -110  | -110  |
| O                                 | 17-4-12 | -26   | -26   |
| R                                 | 2-9-4   | -26   | -26   |
| T                                 | 15-4-12 | -110  | -110  |
| U                                 | 9-4     | -29   | -29   |
| V                                 | 4-8-8   | -1068 | -1068 |
| W                                 | 13-5-8  | -1068 | -1068 |
| X                                 | 15-4-12 | -26   | -26   |
| Y                                 | 18-5-8  | -1738 | -1738 |

| JT | LOC.    | LC1   | MAX.  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| C  | 2-11-8  | -38   | -42   | ---  | BACK  | VERT | DEAD  | ---  | C1    |
| C  | 2-11-8  | -117  | -117  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| C  | 2-11-8  | -191  | -191  | ---  | FRONT | VERT | SNOW  | ---  | C1    |
| E  | 17-4-12 | -110  | -110  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| O  | 17-4-12 | -26   | -26   | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| R  | 2-9-4   | -26   | -26   | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| T  | 15-4-12 | -110  | -110  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| U  | 9-4     | -29   | -29   | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| V  | 4-8-8   | -1068 | -1068 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| W  | 13-5-8  | -1068 | -1068 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| X  | 15-4-12 | -26   | -26   | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| Y  | 18-5-8  | -1738 | -1738 | ---  | BACK  | VERT | TOTAL | ---  | C1    |

TOTAL WEIGHT = 2 X 183 = 365 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 = 25.8 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 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

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(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 (0.33")

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

CALCULATED VERT. DEFL. (TL) = L/685 (0.82")

CSI: TC=0.52/1.00 (D-E:1), BC=0.73/1.00 (O-Q:1), WB=0.81/1.00 (C-Q:1), SSI=0.57/1.00 (M-O:1)

DDL 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

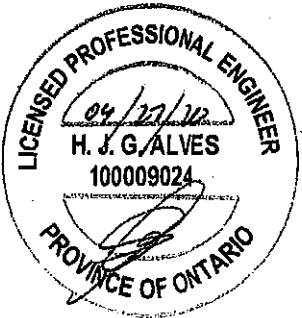
MT20 818 354 1667 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL = 0.84 (P) (INPUT = 1.00)



Structural component only

DWG# T-2007082. 92

|                    |                    |               |          |                               |          |
|--------------------|--------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408151 | TRUSS NAME<br>T20Z | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|--------------------|---------------|----------|-------------------------------|----------|

Tamarack Roof Truss, Burlington

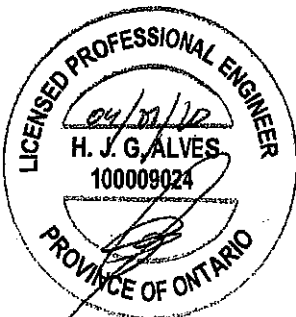
Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:19:45 2020 Page 2  
ID:12df1gC44wS E2tzaPs atzIRw-UCOUmko9VL9YAq n0agaJuZo4EB5KGT958SyzNCX

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMVW+p  | MT20   | 7.0 | 8.0  |      |      |
| C  | TTWW+m  | MT20   | 8.0 | 9.0  | 3.50 | 1.75 |
| D  | TMVW-t  | MT20   | 5.0 | 6.0  | 2.50 | 2.50 |
| E  | TMVW+w  | MT20   | 3.0 | 8.0  |      |      |
| F  | TS-t    | MT20   | 5.0 | 6.0  |      |      |
| G  | TMVW-t  | MT20   | 5.0 | 6.0  | 2.50 | 2.50 |
| H  | TTWW+m  | MT20   | 8.0 | 9.0  | 3.50 | 1.75 |
| I  | TMVW+p  | MT20   | 7.0 | 8.0  |      |      |
| K  | BMV1+p  | MT20   | 3.0 | 6.0  |      |      |
| L  | BMVW-t  | MT20   | 5.0 | 6.0  | 2.50 | 2.25 |
| M  | BMVW-t  | MT20   | 5.0 | 6.0  | 2.50 | 2.75 |
| N  | BS-t    | MT20   | 6.0 | 9.0  |      |      |
| O  | BMVWW-t | MT20   | 5.0 | 12.0 | 2.75 | 6.00 |
| P  | BS-t    | MT20   | 6.0 | 9.0  |      |      |
| Q  | BMVW-t  | MT20   | 5.0 | 8.0  | 2.50 | 2.75 |
| R  | BMVW-t  | MT20   | 5.0 | 6.0  | 2.50 | 2.25 |
| S  | BMV1+p  | MT20   | 3.0 | 6.0  |      |      |

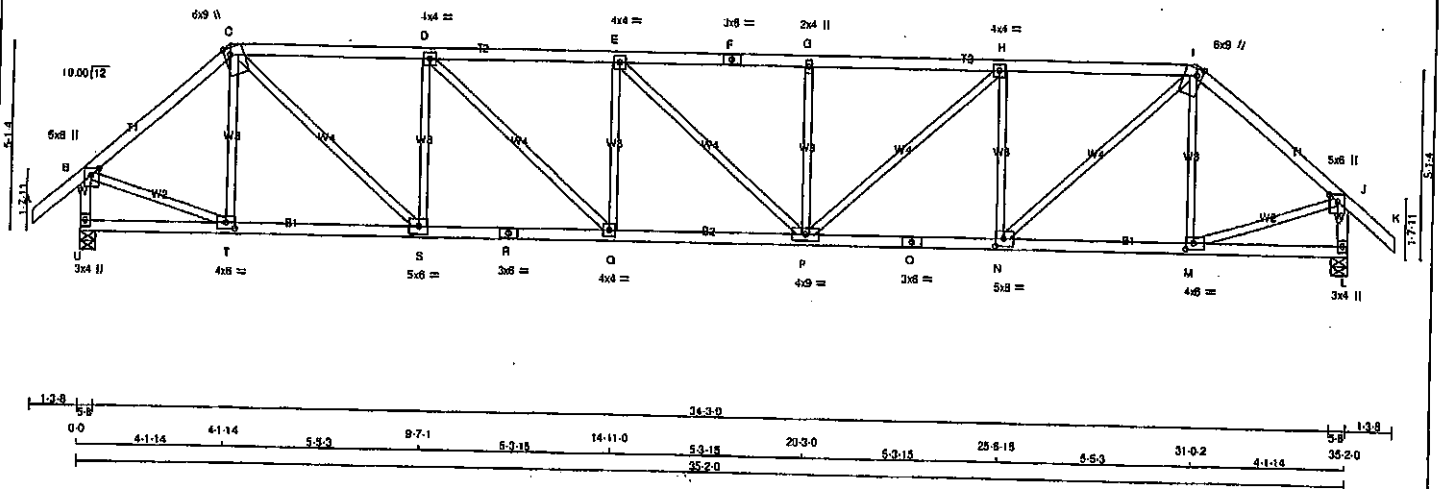
**CONNECTION REQUIREMENTS**

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



Structural component only  
DWG# T-2007082 76

|                                 |                          |                      |                 |                                                                                                                                                               |          |
|---------------------------------|--------------------------|----------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>408151</b>       | TRUSS NAME<br><b>T21</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b>                                                                                                                          | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:19:46 2020 Page 1<br>ID:h2dlqC44ws_E2tzqPs_atzllRw-AVlmymMZTdCnI0YUXpMnr1ECRIweZQhrridOzNCXK |          |



| 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 2x3 DRY No.2  
EXCEPT  
SPF

DRY: SEASONED LUMBER.

| PLATES (tablets in inches) |        |     |     |           |
|----------------------------|--------|-----|-----|-----------|
| JT TYPE                    | PLATES | W   | LEN | Y X       |
| B TMVW+p                   | MT20   | 5.0 | 6.0 | Edge 2.75 |
| C TTWW+m                   | MT20   | 6.0 | 9.0 | Edge 1.75 |
| D, E, H                    |        |     |     |           |
| D TMVW-t                   | MT20   | 4.0 | 4.0 |           |
| F TS-t                     | MT20   | 3.0 | 6.0 |           |
| G TMVW+w                   | MT20   | 2.0 | 4.0 |           |
| I TTWW+m                   | MT20   | 6.0 | 9.0 | Edge 1.75 |
| J TMVW+p                   | MT20   | 5.0 | 6.0 | Edge 2.75 |
| L BMV1+p                   | MT20   | 3.0 | 4.0 |           |
| M BMVW-t                   | MT20   | 4.0 | 6.0 | 2.00 2.75 |
| N BMVW-t                   | MT20   | 5.0 | 6.0 | 2.50 2.75 |
| O BS-t                     | MT20   | 3.0 | 6.0 |           |
| P BMVW-t                   | MT20   | 4.0 | 6.0 |           |
| Q BMVW-t                   | MT20   | 4.0 | 4.0 |           |
| R BS-t                     | MT20   | 3.0 | 6.0 |           |
| S BMVW-t                   | MT20   | 5.0 | 6.0 |           |
| T BMVW-t                   | MT20   | 4.0 | 6.0 | 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      | UPLIFT   |
| U  | 2088                    | 0                               | 2066      | 0        |
| L  | 2088                    | 0                               | 2066      | 0        |

##### UNFACTORED REACTIONS

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

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.20 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                          |                    | WEBS  |                           |                    |          |
|--------|---------------------------|--------------------------|--------------------|-------|---------------------------|--------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PL) | MAX. MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. MAX. CSI (LC) |          |
| FR-TO  |                           | FROM TO                  | LENGTH             | 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)           | 4.48  | C-S                       | 0 / 1838           | 0.41 (1) |
| C-D    | -2671 / 0                 | -91.8 -91.8              | 0.57 (1)           | 3.59  | S-D                       | -1118 / 0          | 0.43 (1) |
| D-E    | -3506 / 0                 | -91.8 -91.8              | 0.65 (1)           | 3.21  | D-Q                       | 0 / 858            | 0.19 (1) |
| E-F    | -3506 / 0                 | -91.8 -91.8              | 0.53 (1)           | 2.36  | Q-E                       | -475 / 0           | 0.18 (1) |
| F-G    | -3506 / 0                 | -91.8 -91.8              | 0.53 (1)           | 3.38  | E-P                       | -2 / 0             | 0.00 (1) |
| G-H    | -3506 / 0                 | -91.8 -91.8              | 0.66 (1)           | 3.20  | P-G                       | -474 / 0           | 0.18 (1) |
| H-I    | -2671 / 0                 | -91.8 -91.8              | 0.57 (1)           | 3.59  | P-H                       | 0 / 853            | 0.19 (1) |
| I-J    | -1960 / 0                 | -91.8 -91.8              | 0.38 (1)           | 4.48  | H-I                       | -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) |
|        |                           |                          |                    |       | M-J                       | 0 / 1571           | 0.35 (1) |
| U-T    | 0 / 0                     | -18.5 -18.5              | 0.10 (4)           | 10.00 |                           |                    |          |
| T-S    | 0 / 1494                  | -18.5 -18.5              | 0.30 (1)           | 10.00 |                           |                    |          |
| S-R    | 0 / 2671                  | -18.5 -18.5              | 0.51 (1)           | 10.00 |                           |                    |          |
| R-Q    | 0 / 2671                  | -18.5 -18.5              | 0.51 (1)           | 10.00 |                           |                    |          |
| Q-P    | 0 / 3506                  | -18.5 -18.5              | 0.62 (1)           | 10.00 |                           |                    |          |
| P-O    | 0 / 2672                  | -18.5 -18.5              | 0.51 (1)           | 10.00 |                           |                    |          |
| O-N    | 0 / 2672                  | -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 LOAD | = | 39.0 | PSF |

SPACING = 24.0 IN. CG

LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.0W/12

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCO 2010, CBC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2018 AMENDMENT)  
- CSA 088-09, CSA 088-14  
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = 1/999 (0.20")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = 1/999 (0.39")  
CSI: TC=0.66/1.00 (G-H:1), BC=0.62/1.00 (P-Q:1), WB=0.43/1.00 (D-S: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.

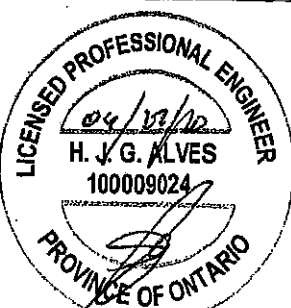
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

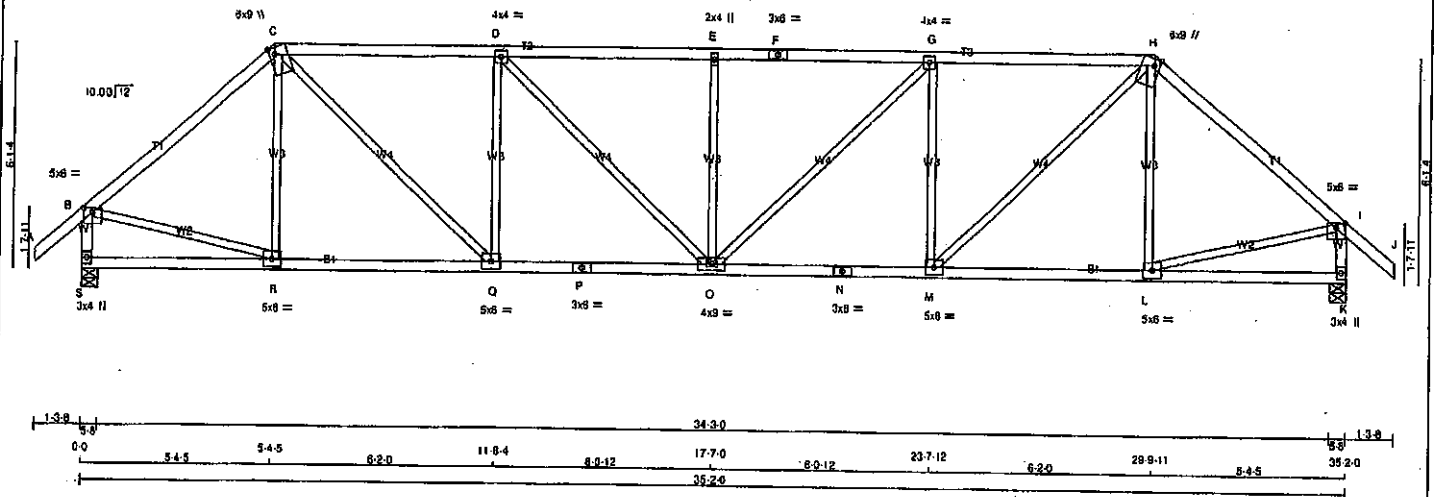
JSI GRIP= 0.90 (S) (INPUT = 0.90)  
JSI METAL= 0.90 (O) (INPUT = 1.00)



Structural component only  
DWG# T-2007083

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408151</b>       | TRUSS NAME<br><b>T22</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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ID:h2dflgC44wS\_E2bzqPs\_atzllRw-ehJ897n\_Kml3PrKD6C22v7OAZcpWl3vZwVaFArZNCXg  
138 0.0 54.5 54.5 62.0 118.4 62.0 17.70 62.0 23.7.12 29.9.11 54.5 35.2.0 36.9.8  
13.8 0.0 54.5 54.5 62.0 118.4 62.0 17.70 62.0 23.7.12 29.9.11 54.5 35.2.0 36.9.8  
Scale = 1/8" = 1'-0"



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

| PLATES (table is in inches) |         |        |     |               |
|-----------------------------|---------|--------|-----|---------------|
| JT                          | TYPE    | PLATES | W   | LEN Y X       |
| B                           | TMWV-p  | MT20   | 5.0 | 6.0 1.50 3.00 |
| C                           | TTWW-m  | MT20   | 6.0 | 9.0 Edge 1.75 |
| D                           | TMWV-t  | MT20   | 4.0 | 4.0           |
| E                           | TMWV-w  | MT20   | 2.0 | 4.0           |
| F                           | TS-t    | MT20   | 3.0 | 8.0           |
| G                           | TMWV-t  | MT20   | 4.0 | 4.0           |
| H                           | TTWW-m  | MT20   | 8.0 | 9.0 Edge 1.75 |
| I                           | TMWV-p  | MT20   | 5.0 | 6.0 1.50 3.00 |
| K                           | BMV-t-p | MT20   | 3.0 | 4.0           |
| L, M, Q, R                  |         |        |     |               |
| L                           | BMWV-t  | MT20   | 5.0 | 8.0           |
| N                           | BS-t    | MT20   | 3.0 | 6.0           |
| O                           | BMWVW-t | MT20   | 4.0 | 9.0           |
| P                           | BS-t    | MT20   | 3.0 | 8.0           |
| S                           | BMV-t-p | MT20   | 3.0 | 4.0           |

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

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

| FACTORED |      | MAXIMUM FACTORED |                | INPUT |     | REQD  |       |
|----------|------|------------------|----------------|-------|-----|-------|-------|
| JT       | VERT | GROSS REACTION   | GROSS REACTION | BRG   | BRG | IN-SX | IN-SX |
| S        | 2068 | 0                | 2068           | 0     | 5-8 | 5-8   | 5-8   |
| K        | 2068 | 0                | 2068           | 0     | 5-8 | 5-8   | 5-8   |

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

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

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

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

### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |          | WEBS  |          |
|--------|----------|-------|----------|
| MEMB.  | FACTORED | MEMB. | FACTORED |
|        | FORCE    |       | FORCE    |
|        | (LBS)    |       | (LBS)    |
| FR-TO  | FROM TO  | FR-TO | FROM TO  |
| A-B    | 0/41     | R-C   | -248/7   |
| B-C    | -2004/0  | C-D   | 0/1538   |
| C-D    | -2853/0  | D-E   | -943/0   |
| D-E    | -2978/0  | E-F   | 0/450    |
| E-F    | -2978/0  | F-G   | -513/0   |
| F-G    | -2978/0  | G-H   | 0/450    |
| G-H    | -2853/0  | H-I   | -943/0   |
| H-I    | -2004/0  | I-J   | 0/1538   |
| I-J    | 0/41     | J-K   | -248/7   |
| J-K    | -2028/0  | K-L   | 0/1580   |
| K-L    | -2028/0  | L-M   | 0/1580   |
| L-M    | 0/0      | M-N   | -18.5    |
| M-N    | -18.5    | N-O   | -18.5    |
| N-O    | -18.5    | O-P   | -18.5    |
| O-P    | -18.5    | P-Q   | -18.5    |
| P-Q    | -18.5    | Q-R   | -18.5    |
| Q-R    | -18.5    | R-S   | -18.5    |
| R-S    | -18.5    | S-T   | -18.5    |
| S-T    | -18.5    | T-U   | -18.5    |
| T-U    | -18.5    | U-V   | -18.5    |
| U-V    | -18.5    | V-W   | -18.5    |
| V-W    | -18.5    | W-X   | -18.5    |
| W-X    | -18.5    | X-Y   | -18.5    |
| X-Y    | -18.5    | Y-Z   | -18.5    |
| Y-Z    | -18.5    | Z-A   | -18.5    |

### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.00/12

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

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

CSI: TO=0.78/1.00 (D-E:1), BC=0.48/1.00 (O-Q:1),  
WB=0.55/1.00 (G-M:1), SSI=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

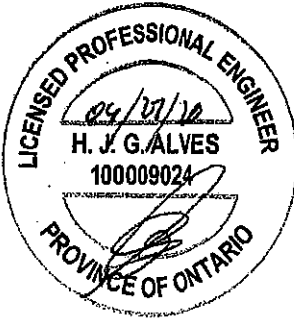
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 -818 354 1867 788 1867 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

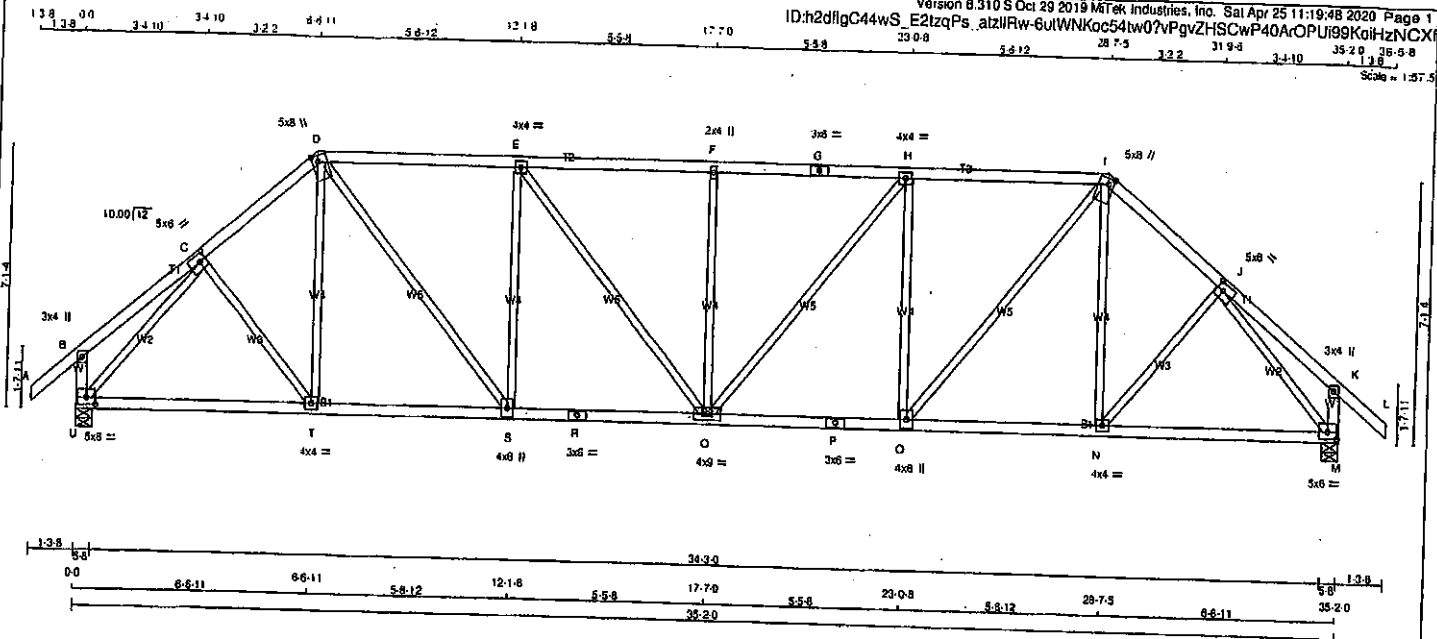


Structural component only  
DWG# T-2007084



|                                                              |                          |                      |                 |                                      |             |          |
|--------------------------------------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>408151</b><br>Tamarack Roof Truss, Burlington | TRUSS NAME<br><b>T23</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|--------------------------------------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|

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

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

#### PLATES (table in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C TMWW+m | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| D TMWW+m | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| E TMWW+m | MT20   | 4.0 | 4.0 |      |      |
| F TMWW+m | MT20   | 2.0 | 4.0 |      |      |
| G TS-1   | MT20   | 3.0 | 6.0 |      |      |
| H TMWW+m | MT20   | 4.0 | 4.0 |      |      |
| I TMWW+m | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| J TMWW+m | MT20   | 5.0 | 6.0 | 2.50 | 2.25 |
| K TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| M BMWW+m | MT20   | 5.0 | 6.0 | 2.25 | 3.00 |
| N BMWW+m | MT20   | 4.0 | 4.0 |      |      |
| O BMWW+m | MT20   | 4.0 | 4.0 |      |      |
| P BS-1   | MT20   | 3.0 | 6.0 |      |      |
| Q BMWW+m | MT20   | 4.0 | 6.0 |      |      |
| R BS-1   | MT20   | 3.0 | 6.0 |      |      |
| S BMWW+m | MT20   | 4.0 | 6.0 |      |      |
| T BMWW+m | MT20   | 4.0 | 4.0 |      |      |
| U BMWW+m | MT20   | 5.0 | 6.0 | 2.25 | 3.00 |

#### 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             | HORIZ | UPLIFT | IN-SX | IN-SX | IN-SX |
| U              | 2068 | 0                | 2068  | 0      | 5-8   | 5-8   | 5-8   |
| M              | 2068 | 0                | 2068  | 0      | 5-8   | 5-8   | 5-8   |

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN COMPONENT REACTIONS |      | WIND      |      | DEAD  |      | SOIL |      |
|-----------|----------|-----------------------------|------|-----------|------|-------|------|------|------|
| JT        | COMBINED | SNOW                        | LIVE | PERM.LIVE | WIND | DEAD  | SOIL | DEAD | SOIL |
| U         | 1458     | 971/0                       | 0/0  | 0/0       | 0/0  | 488/0 | 0/0  | 0/0  | 0/0  |
| M         | 1458     | 971/0                       | 0/0  | 0/0       | 0/0  | 488/0 | 0/0  | 0/0  | 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 = 3.77 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |         | FACTORED       |                | WEBS  |     | FACTORED |          |
|--------|---------|----------------|----------------|-------|-----|----------|----------|
| MEMB.  |         | FORCE          |                | MEMB. |     | FORCE    |          |
| FR-TO  |         | VERT. LOAD LC1 |                | FR-TO |     | MAX      |          |
|        |         | (LBS)          |                |       |     | (LBS)    |          |
|        |         | (PLF)          |                |       |     | CSI (LC) |          |
|        |         | FROM TO        |                |       |     | LENGTH   |          |
| A-B    | 0/41    | -91.8          | -91.8 0.13 (1) | 10.00 | C-T | 0/156    | 0.04 (1) |
| B-C    | 0/19    | -91.8          | -91.8 0.14 (1) | 10.00 | T-D | 0/78     | 0.03 (4) |
| C-D    | -2023/0 | -91.8          | -91.8 0.20 (1) | 4.59  | D-S | 0/1220   | 0.27 (1) |
| D-E    | -2308/0 | -91.8          | -91.8 0.55 (1) | 3.94  | S-E | -850/0   | 0.74 (1) |
| E-F    | -2534/0 | -91.8          | -91.8 0.57 (1) | 3.77  | E-Q | -461/0   | 0.40 (1) |
| F-G    | -2534/0 | -91.8          | -91.8 0.57 (1) | 3.77  | Q-F | 0/381    | 0.08 (1) |
| G-H    | -2534/0 | -91.8          | -91.8 0.57 (1) | 3.77  | F-H | -461/0   | 0.40 (1) |
| H-I    | -2308/0 | -91.8          | -91.8 0.55 (1) | 3.94  | H-Q | 0/381    | 0.08 (1) |
| I-J    | -2023/0 | -91.8          | -91.8 0.20 (1) | 4.59  | Q-I | 0/1220   | 0.27 (1) |
| J-K    | 0/19    | -91.8          | -91.8 0.14 (1) | 10.00 | N-I | 0/78     | 0.03 (4) |
| K-L    | 0/41    | -91.8          | -91.8 0.13 (1) | 10.00 | N-J | 0/156    | 0.04 (1) |
| U-B    | -246/0  | 0.0            | 0.0 0.03 (1)   | 7.81  | U-C | -2277/0  | 0.98 (1) |
| M-K    | -246/0  | 0.0            | 0.0 0.03 (1)   | 7.81  | J-M | -2277/0  | 0.98 (1) |
| U-T    | 0/1433  | -18.5          | -18.5 0.33 (1) | 10.00 |     |          |          |
| T-S    | 0/1535  | -18.5          | -18.5 0.35 (1) | 10.00 |     |          |          |
| S-R    | 0/2308  | -18.5          | -18.5 0.42 (1) | 10.00 |     |          |          |
| R-Q    | 0/2308  | -18.5          | -18.5 0.42 (1) | 10.00 |     |          |          |
| Q-P    | 0/2308  | -18.5          | -18.5 0.42 (1) | 10.00 |     |          |          |
| P-O    | 0/2308  | -18.5          | -18.5 0.42 (1) | 10.00 |     |          |          |
| O-N    | 0/1535  | -18.5          | -18.5 0.35 (1) | 10.00 |     |          |          |
| N-M    | 0/1433  | -18.5          | -18.5 0.33 (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. OC

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

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TRC 2011, TRC 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/999 (0.13)  
ALLOWABLE DEFL. (TL) = L/380 (1.17)  
CALCULATED VERT. DEFL. (TL) = L/999 (0.23)  
CSI: TG=0.571/0 (E-F:1), BC=0.42/1.00 (Q-Q:1), WB=0.88/1.00 (J-M:1), SSI=0.24/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

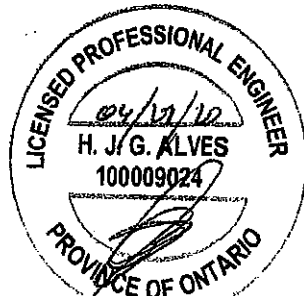
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

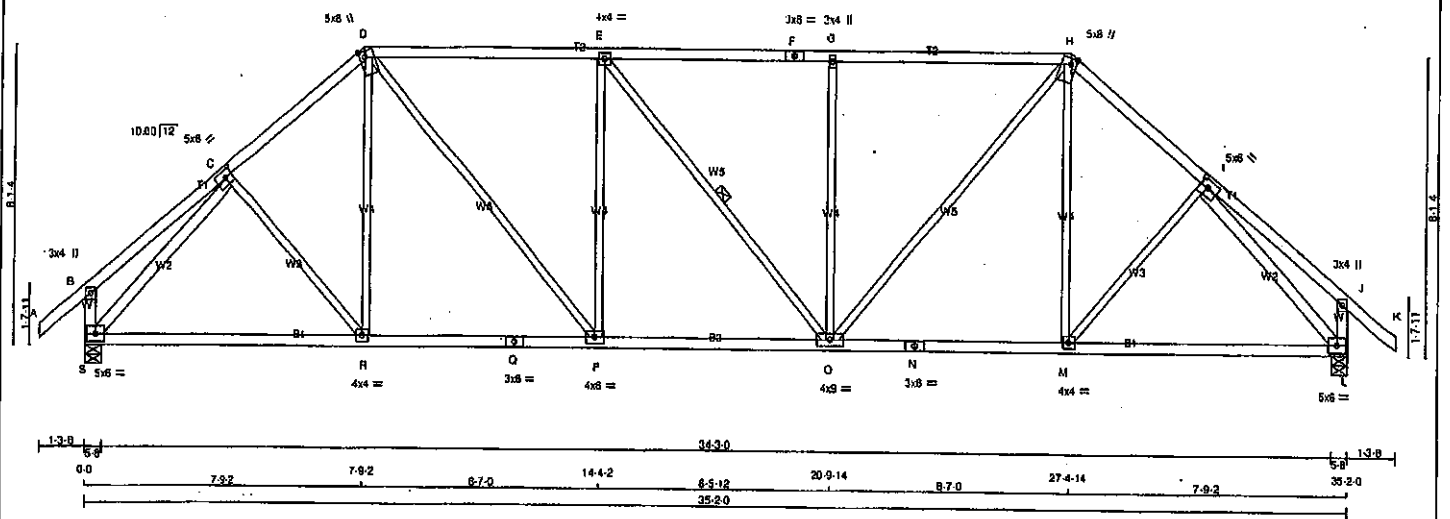
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (I) (INPUT = 0.90)  
JSI METAL = 0.72 (F) (INPUT = 1.00)



Structural component only  
DWG# T-2007085

JOB NAME: 408151 TRUSS NAME: T24 QUANTITY: 2 PLY: 1 JOB DESC.: GREEN PARK HOMES TRUSS DESC.: DRWG NO.:  
 Tamarack Roof Truss, Burlington  
 Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Sat Apr 25 11:19:49 2020 Page 1  
 ID:h2dligC44wS E2tzqPs atzilRw-a4RuappEsO?ne9UlbDd4W QTKEPW57sssNp3MEjzNCXe  
 1.38 0.0 3.11.13 3.11.13 3.9.8 7.9.2 14.4.2 20.9.14 27.4.14 33.9.8 39.2.0 45.6.8  
 1.38 0.0 3.11.13 3.11.13 3.9.8 7.9.2 14.4.2 20.9.14 27.4.14 33.9.8 39.2.0 45.6.8  
 Scale = 1/8" = 1'-0"



| LUMBER                |      |        |        |     | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |          |                                 |       |           |       |                  |         |                                           |            | TOTAL WEIGHT = 2 X 183 = 326 lb |   |          |         |
|-----------------------|------|--------|--------|-----|-----------------------------------------------------------------------------------------------|----------|---------------------------------|-------|-----------|-------|------------------|---------|-------------------------------------------|------------|---------------------------------|---|----------|---------|
| N. L. G. A. RULES     |      |        |        |     | BEARINGS                                                                                      |          |                                 |       |           |       |                  |         |                                           |            | DESIGN CRITERIA                 |   |          |         |
| CHORDS                | SIZE | LUMBER | DESCR. |     | FACTORED GROSS REACTION                                                                       |          | MAXIMUM FACTORED GROSS REACTION |       | INPUT     | REQD  | SPECIFIED LOADS: |         |                                           |            |                                 |   |          |         |
| A - D                 | 2x4  | DRY    | No.2   | SPF | VERT                                                                                          | HORZ     | DOWN                            | HORZ  | UPLIFT    | IN-SX | IN-SX            | TOP CH. | LL                                        | = 25.6 PSF |                                 |   |          |         |
| D - F                 | 2x4  | DRY    | No.2   | SPF | S                                                                                             | 2088     | 0                               | 2066  | 0         | 5-8   | 5-8              | OL      | =                                         | 8.0 PSF    |                                 |   |          |         |
| F - H                 | 2x4  | DRY    | No.2   | SPF | L                                                                                             | 2066     | 0                               | 2088  | 0         | 5-8   | 5-8              | BOT CH. | LL                                        | = 0.0 PSF  |                                 |   |          |         |
| H - K                 | 2x4  | DRY    | No.2   | SPF | UNFACTORED REACTIONS                                                                          |          |                                 |       |           |       |                  |         |                                           |            | OL                              | = | 7.4 PSF  |         |
| S - B                 | 2x4  | DRY    | No.2   | SPF | 1ST CASE                                                                                      |          |                                 |       |           |       |                  |         |                                           |            | TOTAL LOAD                      | = | 39.0 PSF |         |
| L - J                 | 2x4  | DRY    | No.2   | SPF | MAX/MIN. COMPONENT REACTIONS                                                                  |          |                                 |       |           |       |                  |         |                                           |            | SPACING =                       |   | 24.0     | IN. C/C |
| S - Q                 | 2x4  | DRY    | No.2   | SPF | JT                                                                                            | COMBINED | SNOW                            | LIVE  | PERM.LIVE | WIND  | DEAD             | SOIL    | LOADING IN FLAT SECTION BASED ON A SLOPE  |            |                                 |   |          |         |
| Q - N                 | 2x4  | DRY    | No.2   | SPF | S                                                                                             | 1458     | 971 / 0                         | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0          | 0 / 0   | OF 6.00/12                                |            |                                 |   |          |         |
| N - L                 | 2x4  | DRY    | No.2   | SPF | L                                                                                             | 1458     | 971 / 0                         | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0          | 0 / 0   | THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR |            |                                 |   |          |         |
| ALL WEBS EXCEPT S - C |      |        |        |     | 2x3                                                                                           | DRY      | No.2                            | SPF   |           |       |                  |         |                                           |            |                                 |   |          |         |
| I - L                 |      |        |        |     | 2x4                                                                                           | DRY      | No.2                            | SPF   |           |       |                  |         |                                           |            |                                 |   |          |         |

DRY: SEASONED LUMBER.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.8 PSF

OL = 8.0 PSF

ROT CH. LL = 0.0 PSF

OL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

PLATES (table in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWV-1  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| D  | TTWV+m  | MT20   | 5.0 | 8.0 | 2.00 | 1.75 |
| E  | TMWV-1  | MT20   | 4.0 | 4.0 |      |      |
| F  | TS-1    | MT20   | 3.0 | 6.0 |      |      |
| G  | TMWV+m  | MT20   | 2.0 | 4.0 |      |      |
| H  | TTWV+m  | MT20   | 5.0 | 8.0 | 2.00 | 1.75 |
| I  | TMWV-1  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| J  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| L  | BMWV-1  | MT20   | 5.0 | 8.0 |      |      |
| M  | BMWV-1  | MT20   | 4.0 | 4.0 |      |      |
| N  | BS-1    | MT20   | 3.0 | 6.0 |      |      |
| O  | BMWVW-1 | MT20   | 4.0 | 9.0 |      |      |
| P  | BMWV-1  | MT20   | 4.0 | 6.0 |      |      |
| Q  | BS-1    | MT20   | 3.0 | 6.0 |      |      |
| R  | BMWV-1  | MT20   | 4.0 | 4.0 |      |      |
| S  | BMWV-1  | MT20   | 5.0 | 8.0 |      |      |

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | CS (LC)  |
| FR-TO  |                           |                           |                           | FR-TO |                           |                           |          |
| A-B    | 0/41                      | -91.8                     | -91.8 0.13 (1)            | 10.00 | C-R                       | 0/64                      | 0.02 (4) |
| B-C    | 0/28                      | -91.8                     | -91.8 0.21 (1)            | 10.00 | R-D                       | 0/126                     | 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    | -2163/0                   | -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                       | -649/0                    | 0.82 (1) |
| G-H    | -2162/0                   | -91.8                     | -91.8 0.73 (1)            | 3.82  | G-H                       | 0/998                     | 0.22 (1) |
| H-I    | -2006/0                   | -91.8                     | -91.8 0.29 (1)            | 4.50  | M-H                       | 0/126                     | 0.04 (4) |
| I-J    | 0/28                      | -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    | -264/0                    | 0.0                       | 0.0 0.03 (1)              | 7.81  | I-L                       | -2291/0                   | 0.97 (1) |
| L-J    | -264/0                    | 0.0                       | 0.0 0.03 (1)              | 7.81  |                           |                           |          |
| S-R    | 0/1487                    | -18.5                     | -18.5 0.38 (1)            | 10.00 |                           |                           |          |
| R-Q    | 0/1519                    | -18.5                     | -18.5 0.39 (1)            | 10.00 |                           |                           |          |
| Q-P    | 0/1519                    | -18.5                     | -18.5 0.39 (1)            | 10.00 |                           |                           |          |
| P-O    | 0/2163                    | -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 |                           |                           |          |

Structural component only  
 DWG# T-2007086

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

CALCULATED VERT. DEFL. (LL) = L/999 (0.10")

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

CALCULATED VERT. DEFL. (TL) = L/999 (0.21")

CS: TC=0.73/1.00 (D-E:1), BC=0.42/1.00 (O-P:1), WB=0.97/1.00 (I-L:1), SS=0.29/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

MT20 818 354 1667 788 1987 1665

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

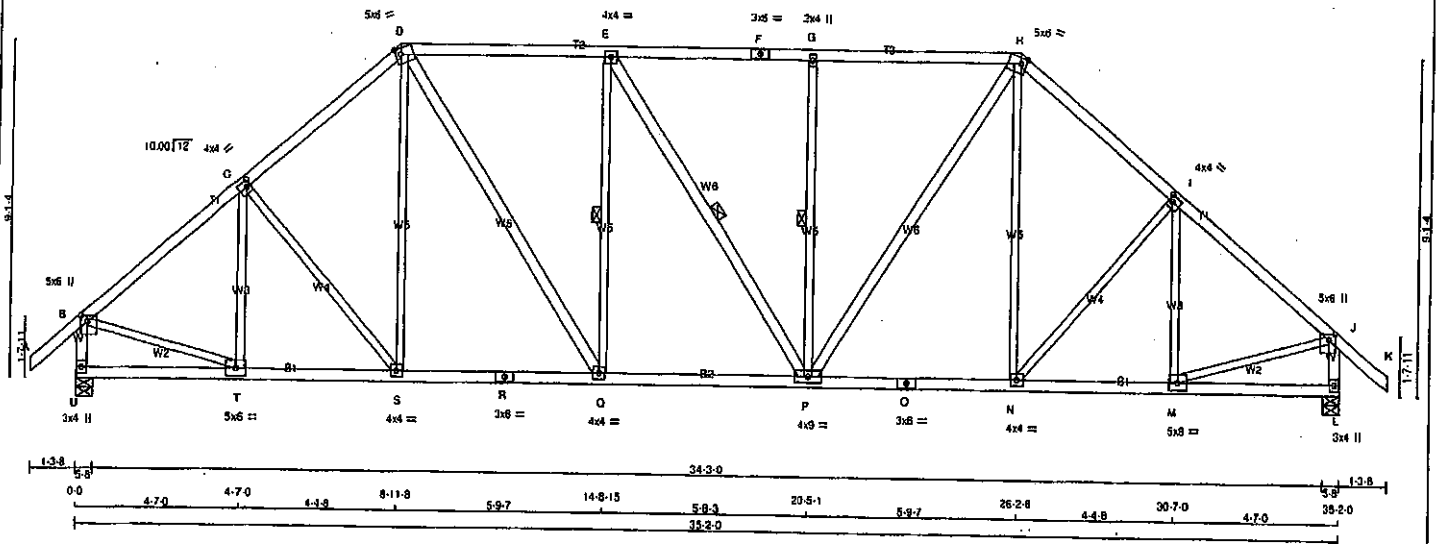
JSI GRIP = 0.87 (I) (INPUT = 0.90)

JSI METAL = 0.58 (I) (INPUT = 1.00)

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408151   | T25        | 2        | 1   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:19:50 2020 Page 1  
ID:h2dlgC44wS\_E2tzqPs\_atzllRw-2G7Ho0psdh7eGJ2nnKblXd0n8pt\_sTo?cTpvm9zNCXc  
20 3 1 5 9 7 26 2 9 4 4 8 30 7 0 4 7 0 38 2 0 38 5 8  
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          | 2x3    | DRY  | No.2   |
| EXCEPT            |        |      |        |
| D - Q             | 2x4    | DRY  | No.2   |
| E - P             | 2x4    | DRY  | No.2   |
| P - H             | 2x4    | DRY  | No.2   |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT      | TYPE   | PLATES | W   | LEN | Y    | X    |
|---------|--------|--------|-----|-----|------|------|
| B       | TMVW+p | MT20   | 5.0 | 8.0 | 2.00 | 2.00 |
| C       | TMVW-i | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| D       | TTVW-m | MT20   | 5.0 | 6.0 | 2.00 | 1.75 |
| E       | TMVW-i | MT20   | 4.0 | 4.0 |      |      |
| F       | TS-i   | MT20   | 3.0 | 6.0 |      |      |
| G       | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| H       | TTVW-m | MT20   | 5.0 | 8.0 | 2.00 | 1.75 |
| I       | TMVW-i | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| J       | TMVW+p | MT20   | 5.0 | 6.0 | 2.00 | 2.00 |
| L       | BMV-i  | MT20   | 3.0 | 4.0 |      |      |
| M       | BMVW-i | MT20   | 5.0 | 6.0 |      |      |
| N, Q, S |        |        |     |     |      |      |
| N       | BMVW-i | MT20   | 4.0 | 4.0 |      |      |
| O       | BS-i   | MT20   | 3.0 | 6.0 |      |      |
| P       | BMVW-i | MT20   | 4.0 | 9.0 |      |      |
| R       | BS-i   | MT20   | 3.0 | 6.0 |      |      |
| T       | BMVW-i | MT20   | 5.0 | 6.0 |      |      |
| U       | BMV-i  | MT20   | 3.0 | 4.0 |      |      |

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT |       | RECORD |       |
|----------|------|----------------|------|------------------|------|-------|-------|--------|-------|
| JT       | VERT | GROSS REACTION | HORZ | GROSS REACTION   | HORZ | BRG   | IN-SX | BRG    | IN-SX |
| U        | 2068 | 0              | 0    | 2068             | 0    | 0     | 5-8   | 5-8    | 5-8   |
| L        | 2068 | 0              | 0    | 2068             | 0    | 0     | 5-8   | 5-8    | 5-8   |

#### UNFACTORED REACTIONS

| JT | COMBINED | SNOW  | LIVE | PERM LIVE | WIND | DEAD  | SOIL |
|----|----------|-------|------|-----------|------|-------|------|
| U  | 1458     | 971/0 | 0/0  | 0/0       | 0/0  | 488/0 | 0/0  |
| L  | 1458     | 971/0 | 0/0  | 0/0       | 0/0  | 488/0 | 0/0  |

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

#### BRACING

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

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |                | MAX. FACTORED              |         | WEBS   |             | FACTORED         |         | MAX. FACTORED              |         |
|--------|-------------|------------------|----------------|----------------------------|---------|--------|-------------|------------------|---------|----------------------------|---------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | CS (LC)        | MAX. UNBRACED LENGTH FR-TO | CS (LC) | MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | CS (LC) | MAX. UNBRACED LENGTH FR-TO | CS (LC) |
| A-B    | 0/41        | -91.8            | -91.8 0.13 (1) | 10.00                      | T-C     | -357/0 | 0.18 (1)    |                  |         |                            |         |
| B-C    | -1984/0     | -91.8            | -91.8 0.30 (1) | 4.53                       | C-S     | -121/0 | 0.10 (1)    |                  |         |                            |         |
| C-D    | -1957/0     | -91.8            | -91.8 0.29 (1) | 4.57                       | S-D     | 0/188  | 0.05 (4)    |                  |         |                            |         |
| D-E    | -1923/0     | -91.8            | -91.8 0.40 (1) | 4.44                       | D-Q     | 0/810  | 0.13 (1)    |                  |         |                            |         |
| E-F    | -1921/0     | -91.8            | -91.8 0.37 (1) | 4.49                       | Q-E     | -568/0 | 0.31 (1)    |                  |         |                            |         |
| F-G    | -1921/0     | -91.8            | -91.8 0.37 (1) | 4.49                       | E-P     | -3/0   | 0.00 (1)    |                  |         |                            |         |
| G-H    | -1921/0     | -91.8            | -91.8 0.40 (1) | 4.45                       | P-G     | -568/0 | 0.31 (1)    |                  |         |                            |         |
| H-I    | -1957/0     | -91.8            | -91.8 0.29 (1) | 4.57                       | P-H     | 0/807  | 0.13 (1)    |                  |         |                            |         |
| I-J    | -1994/0     | -91.8            | -91.8 0.30 (1) | 4.53                       | H-I     | 0/189  | 0.05 (4)    |                  |         |                            |         |
| J-K    | 0/41        | -91.8            | -91.8 0.13 (1) | 10.00                      | N-I     | -121/0 | 0.10 (1)    |                  |         |                            |         |
| U-B    | -2028/0     | 0.0              | 0.0 0.22 (1)   | 5.94                       | M-I     | -358/0 | 0.18 (1)    |                  |         |                            |         |
| L-J    | -2028/0     | 0.0              | 0.0 0.22 (1)   | 5.94                       | D-T     | 0/1817 | 0.38 (1)    |                  |         |                            |         |
| U-T    | 0/0         | -18.5            | -18.5 0.08 (4) | 10.00                      | M-J     | 0/1817 | 0.38 (1)    |                  |         |                            |         |
| T-S    | 0/1555      | -18.5            | -18.5 0.30 (1) | 10.00                      |         |        |             |                  |         |                            |         |
| S-R    | 0/1477      | -18.5            | -18.5 0.30 (1) | 10.00                      |         |        |             |                  |         |                            |         |
| R-Q    | 0/1477      | -18.5            | -18.5 0.30 (1) | 10.00                      |         |        |             |                  |         |                            |         |
| Q-P    | 0/1923      | -18.5            | -18.5 0.38 (1) | 10.00                      |         |        |             |                  |         |                            |         |
| P-O    | 0/1478      | -18.5            | -18.5 0.30 (1) | 10.00                      |         |        |             |                  |         |                            |         |
| O-N    | 0/1478      | -18.5            | -18.5 0.30 (1) | 10.00                      |         |        |             |                  |         |                            |         |
| N-M    | 0/1555      | -18.5            | -18.5 0.31 (1) | 10.00                      |         |        |             |                  |         |                            |         |
| M-L    | 0/0         | -18.5            | -18.5 0.08 (4) | 10.00                      |         |        |             |                  |         |                            |         |

TOTAL WEIGHT = 2 X 182 = 363 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. 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 9, NBCO 2010, NBCO 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2019, 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

ALLOWABLE DEFL.(LL) = L/360 (1.17)  
CALCULATED VERT. DEFL.(LL) = U/999 (0.00)  
ALLOWABLE DEFL.(TL) = L/360 (1.17)  
CALCULATED VERT. DEFL.(TL) = U/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 (G-T:1), SS=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

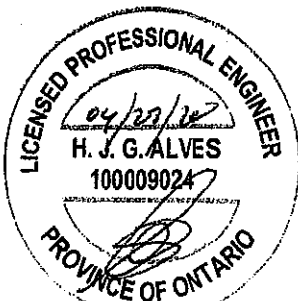
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1667 788 1987 1658

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)

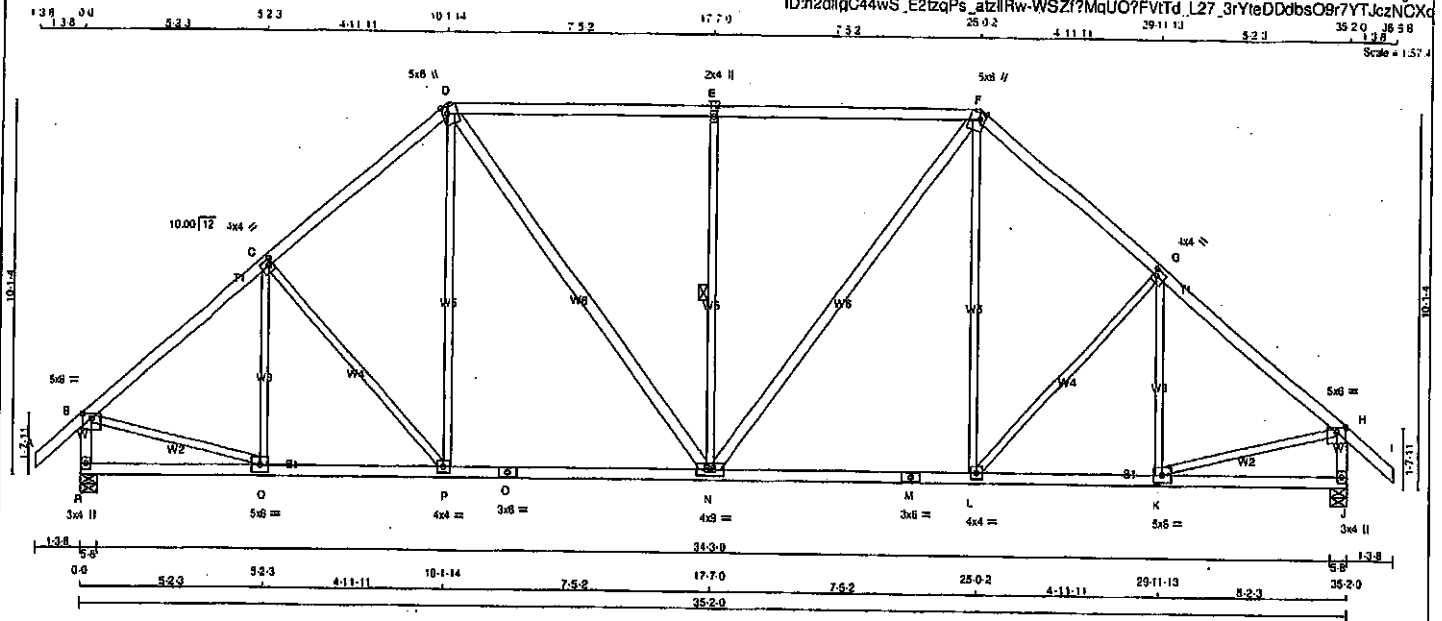


Structural component only  
DWG# T-2007087

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408151   | T26        | 4        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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ID:h2dlqC44ws\_E2tqPs\_atzllRw-WSZl?MqUO?FvItJd\_L27\_3rYteDDbsO8r7YTJczNCXc



| 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 - B    | 2x4  | DRY | No.2   | SPF    |
| B - H    | 2x4  | DRY | No.2   | SPF    |
| H - O    | 2x4  | DRY | No.2   | SPF    |
| O - M    | 2x4  | DRY | No.2   | SPF    |
| M - J    | 2x4  | DRY | No.2   | SPF    |
| ALL WEBS | 2x3  | DRY | No.2   | SPF    |
| EXCEPT   |      |     |        |        |
| D - N    | 2x4  | DRY | No.2   | SPF    |
| N - F    | 2x4  | DRY | No.2   | SPF    |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | W    | LEN | Y   | X         |
|-----------------------------|------|-----|-----|-----------|
| BT TYPE PLATES              |      |     |     |           |
| B TMWV-p                    | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| C TMWV-l                    | MT20 | 4.0 | 4.0 | 2.00 1.25 |
| D TMWV-m                    | MT20 | 5.0 | 6.0 | 2.25 1.50 |
| E TMWV-w                    | MT20 | 2.0 | 4.0 |           |
| F TMWV-m                    | MT20 | 5.0 | 6.0 | 2.25 1.50 |
| G TMWV-l                    | MT20 | 4.0 | 4.0 | 2.00 1.25 |
| H TMWV-p                    | MT20 | 5.0 | 6.0 | 1.50 3.00 |
| J BMV-l-p                   | MT20 | 3.0 | 4.0 |           |
| K BMWV-l                    | MT20 | 5.0 | 6.0 |           |
| L BMWV-l                    | MT20 | 4.0 | 4.0 |           |
| M BS-l                      | MT20 | 3.0 | 8.0 |           |
| N BMWV-l                    | MT20 | 4.0 | 9.0 |           |
| O BS-l                      | MT20 | 3.0 | 6.0 |           |
| P BMWV-l                    | MT20 | 4.0 | 4.0 |           |
| Q BMWV-l                    | MT20 | 5.0 | 6.0 |           |
| R BMV-l-p                   | MT20 | 3.0 | 4.0 |           |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | RECORD |
|----------|----------------|------------------|-------|--------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG    |
| JT       | VERT           | DOWN             | HORZ  | UPLIFT |
| R        | 2088           | 0                | 0     | 5-8    |
| J        | 2088           | 0                | 0     | 5-8    |

#### UNFACTORED REACTIONS

| 1ST LCASE   | MAX/MIN COMPONENT REACTIONS            |
|-------------|----------------------------------------|
| JT COMBINED | SNOW LIVE PERM LIVE WIND DEAD SOIL     |
| R           | 1458 971 / 0 0 / 0 0 / 0 488 / 0 0 / 0 |
| J           | 1458 971 / 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 = 3.96 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          |       |       |          |
|---------------|-----------|------------|---------|---------------|-------|-------|----------|
| MAX. FACTORED |           | FACTORED   |         | MAX. FACTORED |       | MAX   |          |
| MEMB.         | FORCE     | VERT. LOAD | LC1     | MAX.          | MEMB. | FORCE | MAX      |
|               | (LBS)     | (PLF)      | CS (LC) | UNBRAC        |       | (LBS) | CS (LC)  |
| FR-TO         |           | FROM TO    | LENGTH  | FR-TO         |       |       |          |
| A-B           | 0 / 41    | -91.8      | -91.8   | 0.13 (1)      | 10.00 | Q-C   | -302 / 0 |
| B-C           | -2021 / 0 | -91.8      | -91.8   | 0.39 (1)      | 4.41  | C-P   | -217 / 0 |
| C-D           | -1809 / 0 | -91.8      | -91.8   | 0.37 (1)      | 4.52  | P-D   | 0 / 278  |
| D-E           | -1809 / 0 | -91.8      | -91.8   | 0.74 (1)      | 3.95  | D-N   | 0 / 815  |
| E-F           | -1809 / 0 | -91.8      | -91.8   | 0.74 (1)      | 3.95  | N-E   | -838 / 0 |
| F-G           | -1808 / 0 | -91.8      | -91.8   | 0.37 (1)      | 4.52  | N-F   | 0 / 815  |
| G-H           | -2021 / 0 | -91.8      | -91.8   | 0.39 (1)      | 4.41  | L-F   | 0 / 278  |
| H-I           | 0 / 41    | -91.8      | -91.8   | 0.13 (1)      | 10.00 | L-G   | -217 / 0 |
| R-B           | -2024 / 0 | 0.0        | 0.0     | 0.22 (1)      | 5.94  | K-Q   | -302 / 0 |
| J-H           | -2024 / 0 | 0.0        | 0.0     | 0.22 (1)      | 5.94  | B-Q   | 0 / 1629 |
|               |           |            |         |               |       | K-H   | 0 / 1629 |
| R-Q           | 0 / 0     | -18.5      | -18.5   | 0.10 (4)      | 10.00 |       |          |
| Q-P           | 0 / 1580  | -18.5      | -18.5   | 0.34 (1)      | 10.00 |       |          |
| P-O           | 0 / 1437  | -18.5      | -18.5   | 0.35 (1)      | 10.00 |       |          |
| O-N           | 0 / 1437  | -18.5      | -18.5   | 0.35 (1)      | 10.00 |       |          |
| N-M           | 0 / 1437  | -18.5      | -18.5   | 0.35 (1)      | 10.00 |       |          |
| M-L           | 0 / 1437  | -18.5      | -18.5   | 0.35 (1)      | 10.00 |       |          |
| L-K           | 0 / 1580  | -18.5      | -18.5   | 0.34 (1)      | 10.00 |       |          |
| K-J           | 0 / 0     | -18.5      | -18.5   | 0.10 (4)      | 10.00 |       |          |

TOTAL WEIGHT = 4 X 173 = 693 lb

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CS: TC=0.74/1.00 (D-E:1), BC=0.35/1.00 (L-N:1), WB=0.58/1.00 (E-N:1), SS=0.33/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

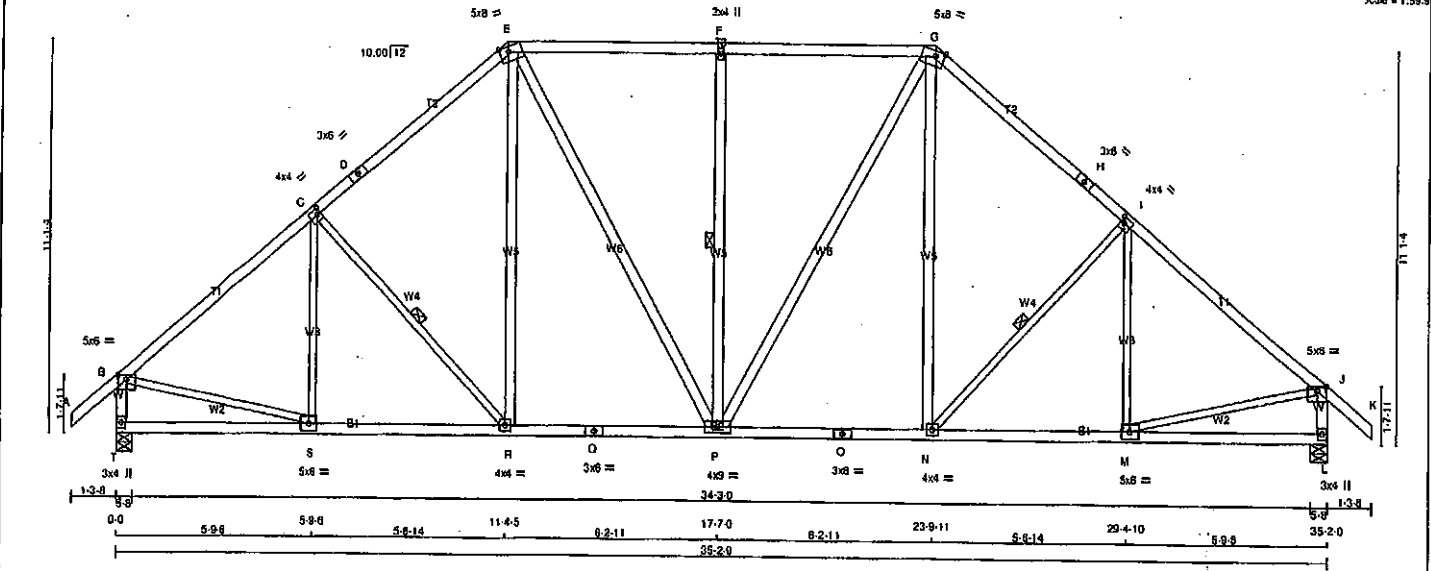
JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL= 0.46 (M) (INPUT = 1.00)



Structural component only  
DWG# T-2007088

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408151</b>       | TRUSS NAME<br><b>T27</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

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 ID:h2dlqC44wS\_E2lqPz\_atzllRw-TrgPQ2slvcVC7mmMST9S9Gehs1uT3o2SIR1ZNUzNCXa  
 Scale = 1:50.0



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

DRY: SEASONED LUMBER.

| PLATES (Table is in inches) |        |     |     |           |
|-----------------------------|--------|-----|-----|-----------|
| JT TYPE                     | PLATES | W   | LEN | Y X       |
| B - TMVW-p                  | MT20   | 5.0 | 8.0 | 1.50 3.00 |
| C - TMVW-t                  | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| D - TS-I                    | MT20   | 3.0 | 8.0 |           |
| E - TTWW-m                  | MT20   | 5.0 | 8.0 | Edge 3.00 |
| F - TMVW-w                  | MT20   | 2.0 | 4.0 |           |
| G - TTWW-m                  | MT20   | 5.0 | 8.0 | Edge 3.00 |
| H - TS-I                    | MT20   | 3.0 | 8.0 |           |
| I - TMVW-I                  | MT20   | 4.0 | 4.0 | 2.00 1.25 |
| J - TMVW-p                  | MT20   | 5.0 | 8.0 | 1.50 3.00 |
| L - BMV1-p                  | MT20   | 3.0 | 4.0 |           |
| M - BMVW-I                  | MT20   | 5.0 | 8.0 |           |
| N - BMVW-I                  | MT20   | 4.0 | 4.0 |           |
| O - BS-I                    | MT20   | 3.0 | 8.0 |           |
| P - BS-I                    | MT20   | 3.0 | 8.0 |           |
| Q - BS-I                    | MT20   | 4.0 | 4.0 |           |
| R - BMVW-I                  | MT20   | 5.0 | 8.0 |           |
| S - BMV1-p                  | MT20   | 3.0 | 4.0 |           |

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

| BEARINGS       |                  |       |      |
|----------------|------------------|-------|------|
| FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
| GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT VERT        | HORZ             | DOWN  | HORZ |
| T 2088         | 0                | 2088  | 0    |
| L 2088         | 0                | 2088  | 0    |

| UNFACTORED REACTIONS |                             |       |           |
|----------------------|-----------------------------|-------|-----------|
| 1ST CASE             | MAX/MIN COMPONENT REACTIONS |       |           |
| JT COMBINED          | SNOW                        | LIVE  | PERM LIVE |
| T 1458               | 971 / 0                     | 0 / 0 | 0 / 0     |
| L 1458               | 971 / 0                     | 0 / 0 | 0 / 0     |

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

**BRACING**  
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 |             |                           |                                |
|--------|-------------|---------------------------|--------------------------------|
| MEMB.  | FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT)      |
| FR-TO  |             |                           |                                |
| A-B    | 0 / 41      | -91.8                     | 10.00                          |
| B-C    | -2039 / 0   | -91.8                     | 4.27                           |
| C-D    | -1844 / 0   | -91.8                     | 4.47                           |
| D-E    | -1844 / 0   | -91.8                     | 4.47                           |
| E-F    | -1621 / 0   | -91.8                     | 4.60                           |
| F-G    | -1621 / 0   | -91.8                     | 4.60                           |
| G-H    | -1844 / 0   | -91.8                     | 4.47                           |
| H-I    | -1844 / 0   | -91.8                     | 4.47                           |
| I-J    | -2039 / 0   | -91.8                     | 4.27                           |
| J-K    | 0 / 41      | -91.8                     | 10.00                          |
| K-L    | -2021 / 0   | 0.0                       | 5.94                           |
| L-J    | -2021 / 0   | 0.0                       | 5.94                           |
| WEBS   |             |                           |                                |
| MEMB.  | FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED VERT. LOAD (PLF) |
| S-C    | -245 / 10   | 0.17 (1)                  |                                |
| C-R    | -314 / 0    | 0.15 (1)                  |                                |
| R-E    | 0 / 338     | 0.05 (1)                  |                                |
| E-P    | 0 / 469     | 0.08 (1)                  |                                |
| P-F    | -699 / 0    | 0.46 (1)                  |                                |
| F-G    | 0 / 469     | 0.08 (1)                  |                                |
| G-N    | 0 / 338     | 0.05 (1)                  |                                |
| N-I    | -314 / 0    | 0.15 (1)                  |                                |
| I-M    | -245 / 10   | 0.17 (1)                  |                                |
| M-S    | 0 / 1637    | 0.37 (1)                  |                                |
| S-J    | 0 / 1637    | 0.37 (1)                  |                                |

TOTAL WEIGHT = 2 X 190 = 380 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 6.00/12

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF NBCG 2010, NBCG 2012, ABC 2019  
 - PART 9 OF NBCG 2012 (2019 AMENDMENT)  
 - CSA 086-09, CSA 086-14  
 - TPIC 2011, TPIC 2014

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

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

CSI: 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=0.20/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

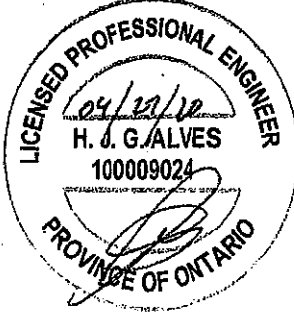
**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION  
 (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1687 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL = 0.47 (O) (INPUT = 1.00)

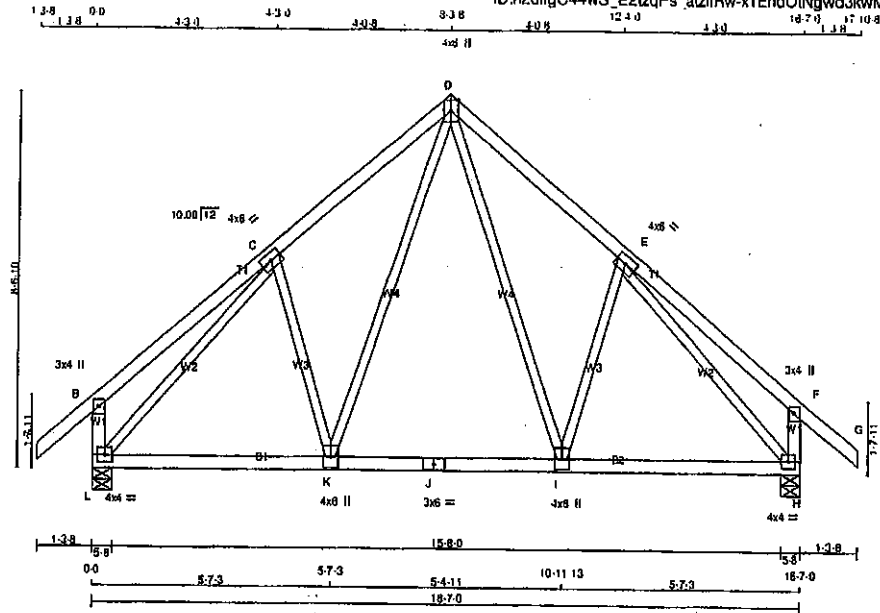


Structural component only  
 DWG# T-2007089

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408151   | T28        | 2        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:19:54 2020 Page 1  
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Scale: 1/4\"/>

| LUMBER   | N. L. G. A. RULES | CHORDS | SIZE | DRY | LUMBER | DESCR. |
|----------|-------------------|--------|------|-----|--------|--------|
| A - D    | 2x4               | DRY    | No.2 | SPF |        |        |
| D - G    | 2x4               | DRY    | No.2 | SPF |        |        |
| L - B    | 2x4               | DRY    | No.2 | SPF |        |        |
| H - F    | 2x4               | DRY    | No.2 | SPF |        |        |
| L - 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 (tablets in inches) | JT TYPE | PLATES | W   | LEN | Y    | X |
|----------------------------|---------|--------|-----|-----|------|---|
| B                          | TMV+p   | MT20   | 3.0 | 4.0 |      |   |
| C                          | TMVW+1  | MT20   | 4.0 | 8.0 |      |   |
| D                          | ITVW+p  | MT20   | 4.0 | 8.0 | Edge |   |
| E                          | TMVW+1  | MT20   | 4.0 | 8.0 |      |   |
| F                          | TMV+p   | MT20   | 3.0 | 4.0 |      |   |
| H                          | BMVW+1  | MT20   | 4.0 | 8.0 |      |   |
| I                          | BMVW+1  | MT20   | 4.0 | 8.0 |      |   |
| J                          | BS+1    | MT20   | 3.0 | 8.0 |      |   |
| K                          | BMVW+1  | MT20   | 4.0 | 8.0 |      |   |
| L                          | BMVW+1  | MT20   | 4.0 | 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| L        | 1041                    | 0                               | 1041      | 0        |
| H        | 1041                    | 0                               | 1041      | 0        |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN  | COMPONENT REACTIONS | SNOW  | LIVE  | PERM LIVE | WIND    | DEAD  | SOIL  |
|-----------|----------|---------------------|-------|-------|-----------|---------|-------|-------|
| JT        | COMBINED |                     |       |       |           |         |       |       |
| L         | 734      | 495 / 0             | 0 / 0 | 0 / 0 | 0 / 0     | 239 / 0 | 0 / 0 | 0 / 0 |
| H         | 734      | 495 / 0             | 0 / 0 | 0 / 0 | 0 / 0     | 239 / 0 | 0 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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        |       |             |               |             |     |  |  |
|---------------|-------------|------------------|-------|----------|-------------|-------|-------------|---------------|-------------|-----|--|--|
| MAX. FACTORED |             | FACTORED         |       |          | MEMB.       |       |             | MAX. FACTORED |             |     |  |  |
| MEMB.         | FORCE (LBS) | VERT. LOAD (PLF) | LC1   | CS1 (LC) | MAX. UNBRAC | MEMB. | FORCE (LBS) | MAX           | FORCE (LBS) | MAX |  |  |
| FR-TO         |             | FROM             | TO    |          | LENGTH      | FR-TO |             |               |             |     |  |  |
| A-B           | 0 / 41      | -91.8            | -91.8 | 0.13 (1) | 10.00       | D-I   | 0 / 339     | 0.08 (1)      |             |     |  |  |
| B-C           | 0 / 29      | -91.8            | -91.8 | 0.28 (1) | 10.00       | E-E   | -222 / 0    | 0.09 (1)      |             |     |  |  |
| C-D           | -764 / 0    | -91.8            | -91.8 | 0.20 (1) | 8.25        | K-D   | 0 / 339     | 0.08 (1)      |             |     |  |  |
| D-E           | -764 / 0    | -91.8            | -91.8 | 0.20 (1) | 8.25        | C-K   | -222 / 0    | 0.09 (1)      |             |     |  |  |
| E-F           | 0 / 29      | -91.8            | -91.8 | 0.28 (1) | 10.00       | L-C   | -964 / 0    | 0.66 (1)      |             |     |  |  |
| F-G           | 0 / 41      | -91.8            | -91.8 | 0.13 (1) | 10.00       | E-H   | -964 / 0    | 0.66 (1)      |             |     |  |  |
| L-B           | -270 / 0    | 0.0              | 0.0   | 0.03 (1) | 7.81        |       |             |               |             |     |  |  |
| H-F           | -270 / 0    | 0.0              | 0.0   | 0.03 (1) | 7.81        |       |             |               |             |     |  |  |
| L-K           | 0 / 632     | -18.5            | -18.5 | 0.18 (4) | 10.00       |       |             |               |             |     |  |  |
| K-J           | 0 / 459     | -18.5            | -18.5 | 0.17 (4) | 10.00       |       |             |               |             |     |  |  |
| J-I           | 0 / 459     | -18.5            | -18.5 | 0.17 (4) | 10.00       |       |             |               |             |     |  |  |
| I-H           | 0 / 632     | -18.5            | -18.5 | 0.18 (4) | 10.00       |       |             |               |             |     |  |  |

TOTAL WEIGHT = 2 X 92 = 183 b

#### 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 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 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) =  $L/360$  (0.55")  
CALCULATED VERT. DEFL (LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL (TL) =  $L/360$  (0.55")  
CALCULATED VERT. DEFL (TL) =  $L/999$  (0.04")

CSI: TC=0.28/1.00 (B-C:1), BC=0.18/1.00 (H-I:4), WB=0.88/1.00 (E-H:1), SSI=0.14/1.00 (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

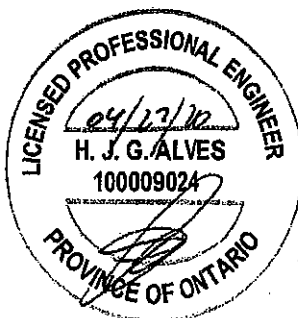
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1056

PLATE PLACEMENT TOL. = 0.250 inches

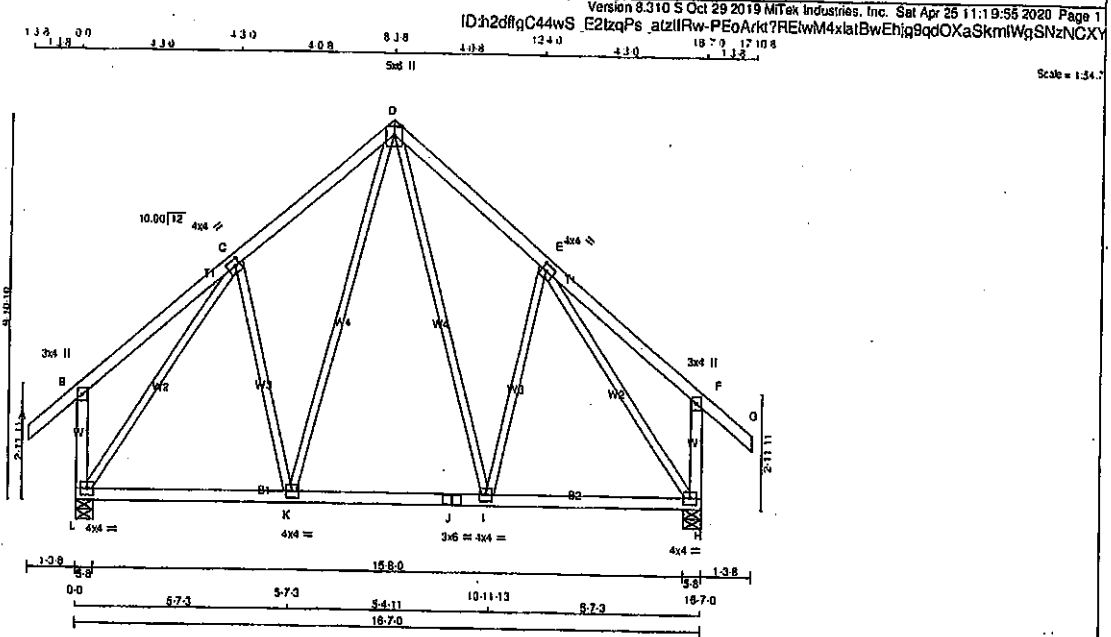
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.78 (C) (INPUT = 0.90)  
JSI METAL = 0.28 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007090

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408151                          | T29        | 1        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |



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

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| D TTWV+p | MT20   | 5.0 | 6.0 | Edge |      |
| E TMVW-1 | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| F TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| H BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| I BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| J BS-1   | MT20   | 3.0 | 6.0 |      |      |
| K BMVW-1 | MT20   | 4.0 | 4.0 |      |      |
| L BMVW-1 | MT20   | 4.0 | 4.0 |      |      |

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

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| L  | 1041                    | 0                               | 1041      | 0        |
| H  | 1041                    | 0                               | 1041      | 0        |

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN. COMPONENT REACTIONS | WIND  | DEAD    | SOIL  |
|----|----------|------------------------------|-------|---------|-------|
| L  | 734      | 495 / 0                      | 0 / 0 | 239 / 0 | 0 / 0 |
| H  | 734      | 495 / 0                      | 0 / 0 | 239 / 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. UNBRACED LENGTH (L) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (L) |  |
| FR-TO  |                           |                           |                          | FR-TO |                           |                          |  |
| A-B    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)           | D-I   | 0 / 254                   | 0.08 (1)                 |  |
| B-C    | 0 / 28                    | -91.8                     | -91.8 0.26 (1)           | I-E   | -138 / 14                 | 0.10 (1)                 |  |
| C-D    | -633 / 0                  | -91.8                     | -91.8 0.20 (1)           | K-D   | 0 / 254                   | 0.08 (1)                 |  |
| D-E    | -633 / 0                  | -91.8                     | -91.8 0.20 (1)           | C-K   | -138 / 14                 | 0.10 (1)                 |  |
| E-F    | 0 / 28                    | -91.8                     | -91.8 0.13 (1)           | L-C   | -875 / 0                  | 0.90 (1)                 |  |
| F-G    | 0 / 41                    | -91.8                     | -91.8 0.13 (1)           | E-H   | -875 / 0                  | 0.90 (1)                 |  |
| L-B    | -278 / 0                  | 0.0                       | 0.0 0.04 (1)             |       |                           |                          |  |
| H-F    | -278 / 0                  | 0.0                       | 0.0 0.04 (1)             |       |                           |                          |  |
| L-K    | 0 / 495                   | -18.5                     | -18.5 0.17 (4)           |       |                           |                          |  |
| K-J    | 0 / 395                   | -18.5                     | -18.5 0.16 (4)           |       |                           |                          |  |
| J-I    | 0 / 395                   | -18.5                     | -18.5 0.16 (4)           |       |                           |                          |  |
| I-H    | 0 / 495                   | -18.5                     | -18.5 0.17 (4)           |       |                           |                          |  |

TOTAL WEIGHT = 91 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

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 2010  
- PART 9 OF CBC 2012 (2018 AMENDMENT)  
- CSA 086-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL. (LL) =  $L/360$  (0.55")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.55")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.04")

CSI: TC=0.28/1.00 (E-F:1), BC=0.17/1.00 (K-L:4), WB=0.90/1.00 (E-H:1), SS=0.14/1.00 (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

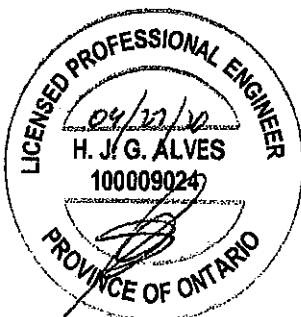
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP (D) VERT SHEAR SECTION (PS) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1867 788 1967 1656

PLATE PLACEMENT TOL = 0.250 inches

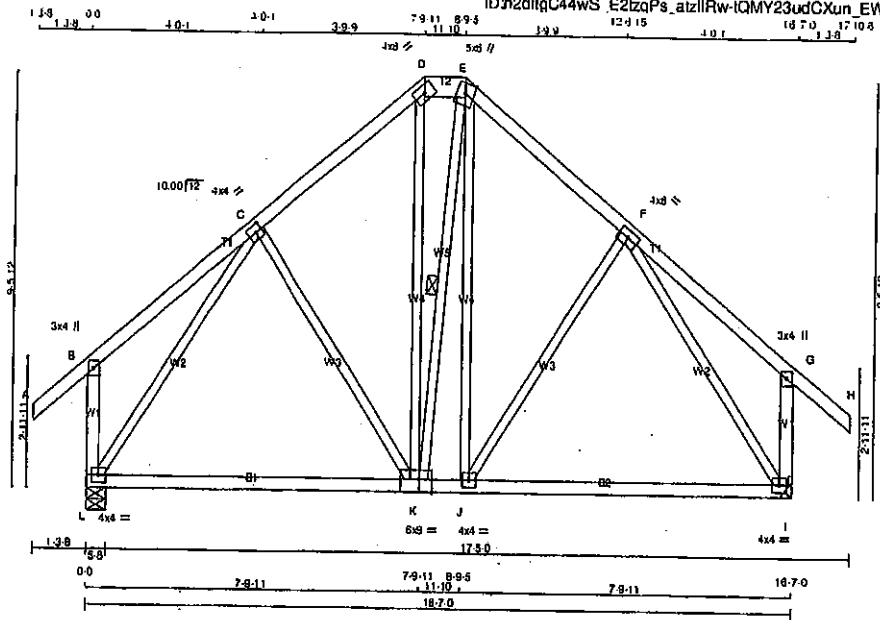
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (E) (INPUT = 0.90)  
JSI METAL = 0.34 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007091

|                                 |                   |               |          |                                                                                    |          |
|---------------------------------|-------------------|---------------|----------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br>408151              | TRUSS NAME<br>T30 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES                                                      | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   | TRUSS DESC.   |          | Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 11:19:56 2020 Page 1 |          |



| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - D             | 2x4    | DRY  | No.2   |
| D - E             | 2x6    | DRY  | No.2   |
| E - H             | 2x4    | DRY  | No.2   |
| L - B             | 2x4    | DRY  | No.2   |
| I - G             | 2x4    | DRY  | No.2   |
| L - K             | 2x4    | DRY  | No.2   |
| K - I             | 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  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| C  | TMW+1  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW-h  | MT20   | 4.0 | 8.0 |      |      |
| E  | TTW+m  | MT20   | 5.0 | 6.0 | Edge |      |
| F  | TMW+1  | MT20   | 4.0 | 8.0 |      |      |
| G  | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW+1 | MT20   | 4.0 | 4.0 |      |      |
| J  | BMW+1  | MT20   | 4.0 | 4.0 |      |      |
| K  | BSW+1  | MT20   | 6.0 | 9.0 | Edge | 3.75 |
| L  | BMVW+1 | MT20   | 4.0 | 4.0 |      |      |

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

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

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |            | REQD  |       |
|----------------|------|------------------|------|--------|------------|-------|-------|
| GROSS REACTION |      | GROSS REACTION   |      | BRG    | BRG        | BRG   | BRG   |
| JT VERT        | HORZ | DOWN             | HORZ | UPLIFT | IN-SX      | IN-SX | IN-SX |
| L 1041         | 0    | 1041             | 0    | 0      | 5-8        | 5-8   |       |
| I 1041         | 0    | 1041             | 0    | 0      | MECHANICAL |       |       |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOSE | SNOW  | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
|----|----------|-------|------|-----------|------|-------|------|
| L  | 734      | 495/0 | 0/0  | 0/0       | 0/0  | 239/0 | 0/0  |
| I  | 734      | 495/0 | 0/0  | 0/0       | 0/0  | 239/0 | 0/0  |

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

#### 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.

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                      |          | WEBS  |                           |          |  |
|--------|---------------------------|----------------------|----------|-------|---------------------------|----------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF)     | CS1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | CS1 (LC) |  |
| FR-TO  |                           | FROM TO              | LENGTH   | FR-TO |                           |          |  |
| A-B    | 0/41                      | -91.8 -91.8 0.13 (1) | 10.00    | C-K   | -88/9                     | 0.09 (1) |  |
| B-C    | 0/27                      | -91.8 -91.8 0.23 (1) | 10.00    | K-D   | 0/164                     | 0.04 (1) |  |
| C-D    | -568/0                    | -91.8 -91.8 0.18 (1) | 8.25     | K-E   | -109/0                    | 0.07 (4) |  |
| D-E    | -414/0                    | -91.8 -91.8 0.01 (1) | 8.25     | J-E   | 0/286                     | 0.07 (4) |  |
| E-F    | -582/0                    | -91.8 -91.8 0.18 (1) | 8.25     | J-F   | -93/15                    | 0.09 (1) |  |
| F-G    | 0/27                      | -91.8 -91.8 0.23 (1) | 10.00    | L-C   | -848/0                    | 0.78 (1) |  |
| G-H    | 0/41                      | -91.8 -91.8 0.13 (1) | 10.00    | F-I   | -882/0                    | 0.79 (1) |  |
| L-B    | -285/0                    | 0.0 0.0 0.04 (1)     | 7.81     |       |                           |          |  |
| I-G    | -285/0                    | 0.0 0.0 0.04 (1)     | 7.81     |       |                           |          |  |
| L-K    | 0/468                     | -18.5 -18.5 0.38 (4) | 10.00    |       |                           |          |  |
| K-J    | 0/424                     | -18.5 -18.5 0.30 (4) | 10.00    |       |                           |          |  |
| J-I    | 0/477                     | -18.5 -18.5 0.30 (4) | 10.00    |       |                           |          |  |

TOTAL WEIGHT = 97 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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.0/12

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

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

(55% OF 31.3 P.S.F. G.S.L. PLUS 9.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CS1: TC=0.23/1.00 (B-C:1), BC=0.38/1.00 (K-L:4), WB=0.78/1.00 (F-I:1), SS=0.14/1.00 (J-K:4)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 818 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

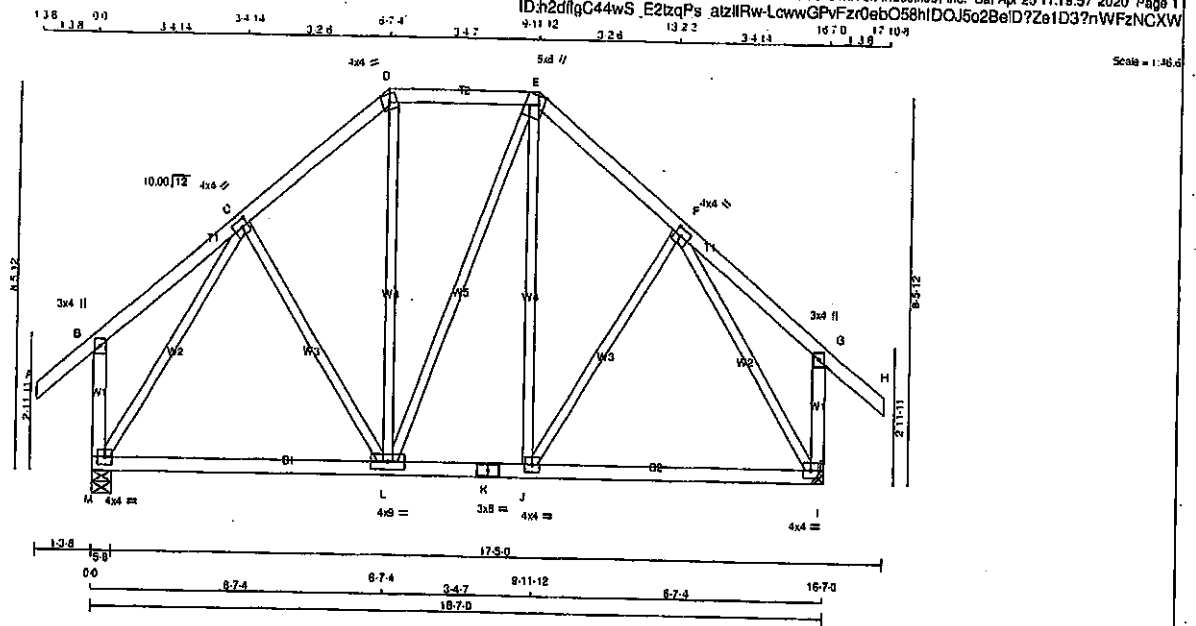
JSI GRIP=0.89 (C) (INPUT = 0.90)  
JSI METAL=0.31 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007092



|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408151</b>       | TRUSS NAME<br><b>T31</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 |                          |                      |                 |                                      |          |



| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
|-------------------|--------|------|--------|
| A - D             | 2x4    | DRY  | No.2   |
| D - E             | 2x4    | DRY  | No.2   |
| E - H             | 2x4    | DRY  | No.2   |
| M - B             | 2x4    | DRY  | No.2   |
| I - G             | 2x4    | DRY  | No.2   |
| M - K             | 2x4    | DRY  | No.2   |
| K - I             | 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                           | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C                           | TMWW-I  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D                           | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| E                           | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| F                           | TMWW-I  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| G                           | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| I                           | BMVW-I  | MT20   | 4.0 | 4.0 |      |      |
| J                           | BMWW-I  | MT20   | 4.0 | 4.0 |      |      |
| K                           | BS-I    | MT20   | 3.0 | 6.0 |      |      |
| L                           | BMWWW-I | MT20   | 4.0 | 9.0 |      |      |
| M                           | BMVW-I  | MT20   | 4.0 | 4.0 |      |      |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT                    | DOWN                            | UPLIFT    | IN-SX     |
| M        | 1041                    | 0                               | 1041      | 0         |
| I        | 1041                    | 0                               | 1041      | 0         |

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

| UNFACTORED REACTIONS | 1ST CASE | MAX. MIN. COMPONENT REACTIONS       |
|----------------------|----------|-------------------------------------|
| JT                   | COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| M                    | 734      | 495/0 0/0 0/0 0/0 239/0 0/0         |
| I                    | 734      | 495/0 0/0 0/0 0/0 239/0 0/0         |

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

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

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

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

| CHORDS | MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED CSI (LC) | UNBRACED LENGTH (FT) | WEBS  | MEMB.  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
|--------|--------|---------------------------|------------------|---------------------------|------------------------|----------------------|-------|--------|---------------------------|------------------------|
| FR-TO  |        |                           |                  |                           |                        |                      | FR-TO |        |                           |                        |
| A-B    | 0/41   | -91.8                     | -91.8            | 0.13 (1)                  | 10.00                  |                      | C-L   | -10/34 | 0.01 (4)                  |                        |
| B-C    | 0/22   | -91.8                     | -91.8            | 0.16 (1)                  | 10.00                  |                      | L-D   | 0/110  | 0.03 (4)                  |                        |
| C-D    | -613/0 | -91.8                     | -91.8            | 0.13 (1)                  | 6.25                   |                      | L-E   | 0/0    | 0.00 (1)                  |                        |
| D-E    | -453/0 | -91.8                     | -91.8            | 0.14 (1)                  | 6.25                   |                      | J-E   | 0/109  | 0.03 (4)                  |                        |
| E-F    | -612/0 | -91.8                     | -91.8            | 0.13 (1)                  | 6.25                   |                      | J-F   | -11/34 | 0.01 (4)                  |                        |
| F-G    | 0/22   | -91.8                     | -91.8            | 0.16 (1)                  | 10.00                  |                      | M-C   | -873/0 | 0.60 (1)                  |                        |
| G-H    | 0/41   | -91.8                     | -91.8            | 0.13 (1)                  | 10.00                  |                      | F-I   | -873/0 | 0.60 (1)                  |                        |
| M-B    | -245/0 | 0.0                       | 0.0              | 0.04 (1)                  | 7.81                   |                      |       |        |                           |                        |
| I-G    | -245/0 | 0.0                       | 0.0              | 0.04 (1)                  | 7.81                   |                      |       |        |                           |                        |
| M-L    | 0/457  | -18.5                     | -18.5            | 0.21 (4)                  | 10.00                  |                      |       |        |                           |                        |
| L-K    | 0/453  | -18.5                     | -18.5            | 0.20 (4)                  | 10.00                  |                      |       |        |                           |                        |
| K-J    | 0/463  | -18.5                     | -18.5            | 0.20 (4)                  | 10.00                  |                      |       |        |                           |                        |
| J-I    | 0/457  | -18.5                     | -18.5            | 0.21 (4)                  | 10.00                  |                      |       |        |                           |                        |

TOTAL WEIGHT = 92 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**

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.18/1.00 (F-G:1), BC=0.21/1.00 (I-J:4), WB=0.80/1.00 (C-M:1), SS=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

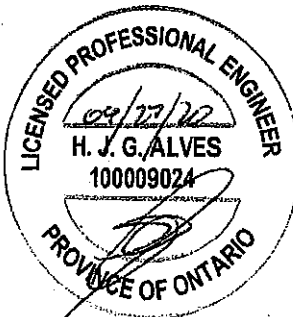
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

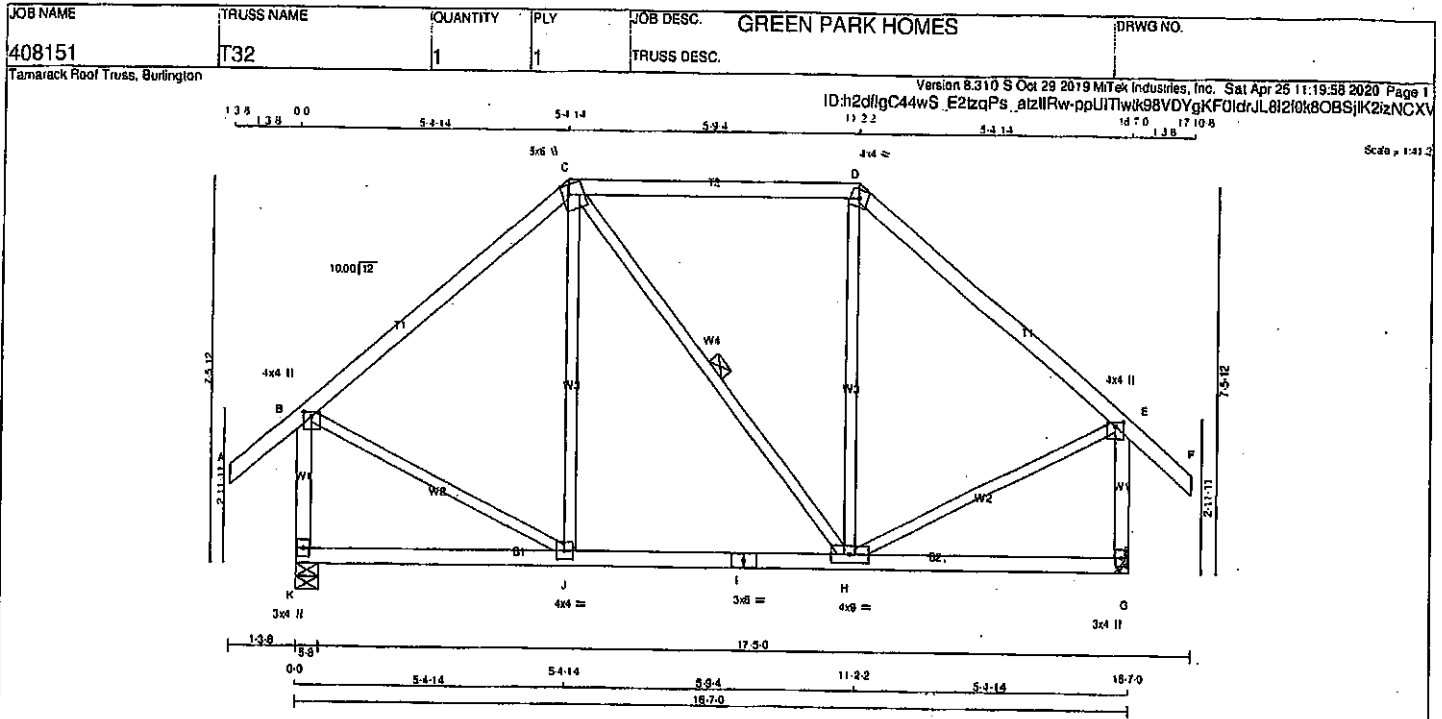
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (C) (INPUT = 0.90)  
JSI METAL = 0.31 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007093



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

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C  | TTW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D  | TTW-m  | MT20   | 4.0 | 4.0 |      |      |
| E  | TMW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| G  | BMV+p  | MT20   | 3.0 | 4.0 |      |      |
| H  | BMWW-i | MT20   | 4.0 | 9.0 |      |      |
| I  | BS-i   | MT20   | 3.0 | 8.0 |      |      |
| J  | BMWW-i | MT20   | 4.0 | 4.0 |      |      |
| K  | BMV+p  | MT20   | 3.0 | 4.0 |      |      |

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

**BEARINGS**

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG  | REQD BRG |
|-------------------------|---------------------------------|------------|----------|
| JT VERT                 | DOWN                            | BRG        | BRG      |
| K 1041 0                | 1041 0                          | 5-8        | 5-8      |
| G 1041 0                | 1041 0                          | MECHANICAL |          |

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

**UNFACTORED REACTIONS**

| 1ST CASE    | SNOW  | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
|-------------|-------|------|-----------|------|-------|------|
| JT COMBINED |       |      |           |      |       |      |
| K 734       | 495/0 | 0/0  | 0/0       | 0/0  | 239/0 | 0/0  |
| G 734       | 495/0 | 0/0  | 0/0       | 0/0  | 239/0 | 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 = 6.25 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-H.

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.  | FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | LC1<br>MAX<br>CSI (LC) | MAX.<br>UNBRAG<br>LENGTH | MEMB. | FACTORED<br>FORCE<br>(LBS) | MAX<br>CSI (LC)  |  |
| FR-TO  |                            | FROM                            | TO                     |                          | FR-TO |                            |                  |  |
| A-B    | 0/41                       | -91.8                           | -91.8                  | 0.13 (1)                 | 10.00 | J-C                        | -115/46 0.12 (1) |  |
| B-C    | -619/0                     | -91.8                           | -91.8                  | 0.35 (1)                 | 8.25  | C-H                        | 0/0 0.00 (1)     |  |
| C-D    | -473/0                     | -91.8                           | -91.8                  | 0.39 (1)                 | 8.25  | H-D                        | -115/46 0.12 (1) |  |
| D-E    | -619/0                     | -91.8                           | -91.8                  | 0.35 (1)                 | 8.25  | B-J                        | 0/526 0.12 (1)   |  |
| E-F    | 0/41                       | -91.8                           | -91.8                  | 0.13 (1)                 | 10.00 | H-E                        | 0/526 0.12 (1)   |  |
| K-B    | -1000/0                    | 0.0                             | 0.0                    | 0.16 (1)                 | 7.81  |                            |                  |  |
| G-E    | -1000/0                    | 0.0                             | 0.0                    | 0.16 (1)                 | 7.81  |                            |                  |  |
| K-J    | 0/0                        | -18.5                           | -18.5                  | 0.13 (4)                 | 10.00 |                            |                  |  |
| J-I    | 0/473                      | -18.5                           | -18.5                  | 0.17 (4)                 | 10.00 |                            |                  |  |
| I-H    | 0/473                      | -18.5                           | -18.5                  | 0.17 (4)                 | 10.00 |                            |                  |  |
| H-G    | 0/0                        | -18.5                           | -18.5                  | 0.13 (4)                 | 10.00 |                            |                  |  |

**DESIGN CRITERIA**

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 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 (0.55")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.55")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.39/1.00 (C-D:1), BC=0.17/1.00 (H-J:4), WB=0.12/1.00 (B-J:1), SS=0.21/1.00 (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 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (B) (INPUT = 0.90)  
JSI METAL = 0.23 (B) (INPUT = 1.00)

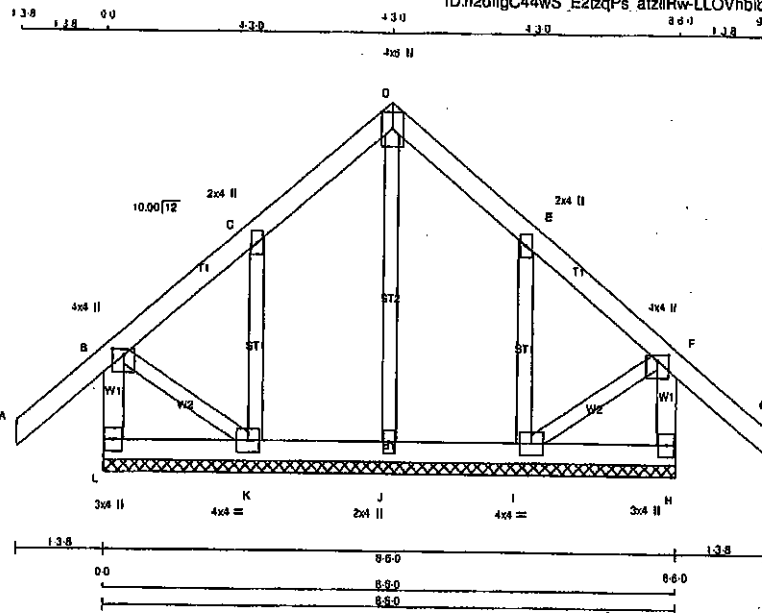


Structural component only  
DWG# T-2007094

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408151   | G33        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:30

| 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 2-0-0 OC.

#### PLATES (tablets in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C  | TMVW+w  | MT20   | 2.0 | 4.0 |      |      |
| D  | TTW+p   | MT20   | 4.0 | 8.0 | Edge |      |
| E  | TMVW+w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| H  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| J  | BMVW1+w | MT20   | 2.0 | 4.0 |      |      |
| K  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| L  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

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

##### BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRACED LENGTH | FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | FR-TO |
|-------|---------------------------|---------------------------|------------------|----------------------|-------|-------|---------------------------|----------------------|-------|
|       |                           |                           |                  |                      |       |       |                           |                      |       |
| L-B   | -231 / 0                  | 0.0                       | 0.0              | 0.02 (1)             | 7.81  | J-D   | -123 / 0                  | 0.05 (1)             |       |
| A-B   | 0 / 41                    | -91.8                     | -91.8            | 0.13 (1)             | 10.00 | K-C   | -236 / 0                  | 0.05 (1)             |       |
| B-C   | -11 / 0                   | -91.8                     | -91.8            | 0.07 (1)             | 6.25  | I-E   | -236 / 0                  | 0.05 (1)             |       |
| C-D   | -32 / 0                   | -91.8                     | -91.8            | 0.07 (1)             | 6.25  | B-K   | 0 / 23                    | 0.01 (1)             |       |
| D-E   | -32 / 0                   | -91.8                     | -91.8            | 0.07 (1)             | 6.25  | I-F   | 0 / 23                    | 0.01 (1)             |       |
| E-F   | -11 / 0                   | -91.8                     | -91.8            | 0.07 (1)             | 6.25  |       |                           |                      |       |
| F-G   | 0 / 41                    | -91.8                     | -91.8            | 0.13 (1)             | 10.00 |       |                           |                      |       |
| H-F   | -231 / 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 |       |                           |                      |       |

TOTAL WEIGHT = 42 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(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 (F-G:1), BC=0.02/1.00 (J-K:4), WB=0.05/1.00 (C-K:1), SS=0.08/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
|       | (PS)       | (PL)  | (PL)    |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 818        | 354   | 1667    |
|       | 789        | 1987  | 1656    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.18 (C) (INPUT = 0.90)

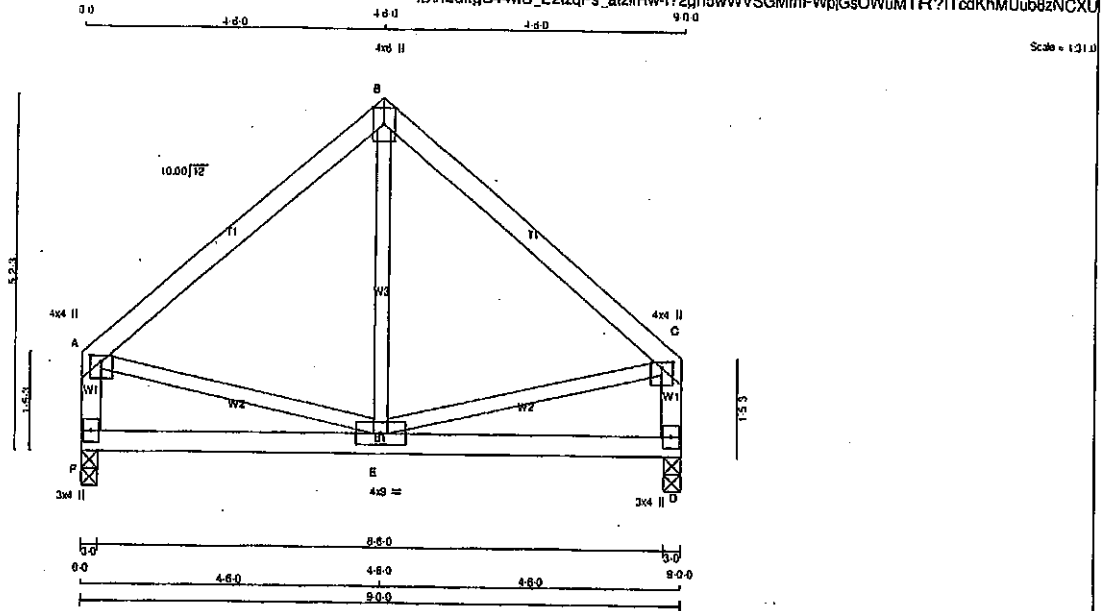
JSI METAL = 0.13 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007078

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408151                          | T33X       | 1           | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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TOTAL WEIGHT = 37 lb  
(M/F)

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - B                 | 2x4    | DRY  | No.2   |
| B - C                 | 2x4    | DRY  | No.2   |
| F - A                 | 2x4    | DRY  | No.2   |
| D - C                 | 2x4    | DRY  | No.2   |
| F - D                 | 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       |
| A                        | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| B                        | TTW+p   | MT20   | 4.0 | 8.0 | Edge      |
| C                        | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| D                        | BMV1+p  | MT20   | 3.0 | 4.0 |           |
| E                        | BMVWW+1 | MT20   | 4.0 | 9.0 |           |
| F                        | 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 | DOWN             | BRG   | BRG  |
| F        | 498            | 0              | 498              | 0     | 3-0  |
| D        | 498            | 0              | 498              | 0     | 3-0  |

| UNFACTORED REACTIONS |          | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|----------|----------|------------------------------|
| JT                   | COMBINED | SNOW     | LIVE                         |
| F                    | 351      | 230 / 0  | 0 / 0                        |
| D                    | 351      | 230 / 0  | 0 / 0                        |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F, 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  |               |
| MEMB.   | MAX. FACTORED | VERT. LOAD            | CS1 (LC) | MEMB. | MAX. FACTORED |
| FR-TO   | FORCE (LBS)   | FROM TO               | CS1 (LC) | FR-TO | FORCE (LBS)   |
| A-B     | -311 / 0      | -91.8 -91.8           | 0.24 (1) | E-B   | -14 / 72      |
| B-C     | -311 / 0      | -91.8 -91.8           | 0.24 (1) | A-E   | 0 / 248       |
| D-C     | -484 / 0      | 0.0 0.0               | 0.05 (1) | E-C   | 0 / 248       |
| F-E     | 0 / 0         | -18.5 -18.5           | 0.11 (4) |       |               |
| E-D     | 0 / 0         | -18.5 -18.5           | 0.11 (4) |       |               |

#### DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) =  $L/360$  (0.30")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.30")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.01")  
CS1: TC=0.24/1.00 (A-B:1), BC=0.11/1.00 (E-F:4), WB=0.08/1.00 (C-E:1), SS1=0.12/1.00 (A-B:1)  
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

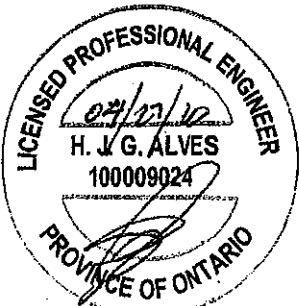
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.42 (A) (INPUT = 0.90)  
JSI METAL = 0.12 (A) (INPUT = 1.00)

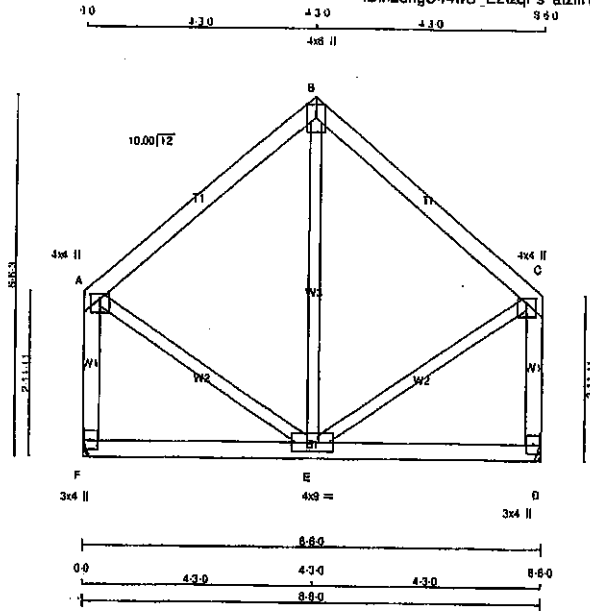


Structural component only  
DWG# T-2007095

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408151   | T34        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT TYPE     | PLATES | W   | LEN | Y    | X    |
|-------------|--------|-----|-----|------|------|
| A - TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| B - TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| C - TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| D - BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| E - BMVWW-1 | MT20   | 4.0 | 9.0 |      |      |
| F - 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        | VERT           | HORZ             | DOWN  | HORZ |
| F        | 489            | 0                | 489   | 0    |
| D        | 489            | 0                | 489   | 0    |

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

#### UNFACTORED REACTIONS

| JT | COMBINED | 1ST LOASE | SNOW | LIVE | PERALIVE | WIND | DEAD  | SOIL |
|----|----------|-----------|------|------|----------|------|-------|------|
| F  | 331      | 217/0     | 0/0  | 0/0  | 0/0      | 0/0  | 114/0 | 0/0  |
| D  | 331      | 217/0     | 0/0  | 0/0  | 0/0      | 0/0  | 114/0 | 0/0  |

#### 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 | FACTORED | VERT. LOAD | LC1  | MAX | CS1 (LC) | UNBRAC | LENGTH  | FR-TO | MEMB. | MAX. FACTORED | FORCE | MAX | CS1 (LC) |
|--------|-------|---------------|-------|----------|------------|------|-----|----------|--------|---------|-------|-------|---------------|-------|-----|----------|
| A-B    |       | -218/0        |       | -91.8    | -91.8      | 0.21 | (1) | 8.25     | E-B    | -111/32 | 0.07  | (1)   |               |       |     |          |
| B-C    |       | -218/0        |       | -91.8    | -91.8      | 0.21 | (1) | 8.25     | A-E    | 0/197   | 0.04  | (1)   |               |       |     |          |
| F-A    |       | -438/0        |       | 0.0      | 0.0        | 0.07 | (1) | 7.81     | E-C    | 0/197   | 0.04  | (1)   |               |       |     |          |
| D-C    |       | -438/0        |       | 0.0      | 0.0        | 0.07 | (1) | 7.81     |        |         |       |       |               |       |     |          |
| F-E    |       | 0/0           |       | -18.5    | -18.5      | 0.09 | (4) | 10.00    |        |         |       |       |               |       |     |          |
| E-D    |       | 0/0           |       | -18.5    | -18.5      | 0.09 | (4) | 10.00    |        |         |       |       |               |       |     |          |

TOTAL WEIGHT = 2 X 41 = 82 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

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

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

##### THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) =  $L/360$  (0.28")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.28")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.01")

CSI: TC=0.21/1.00 (A-B:1), BC=0.09/1.00 (E-F:4),  
WB=0.07/1.00 (B-E:1), SS=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

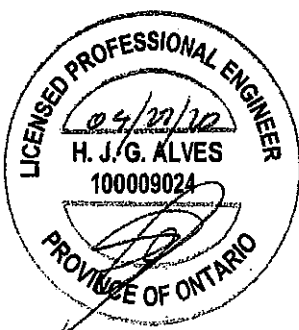
##### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR   | SECTION  |
|------------------|---------|----------|
| (PS)             | (PL)    | (PL)     |
| MAX MIN          | MAX MIN | MAX MIN  |
| MT20             | 618 354 | 1687 788 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

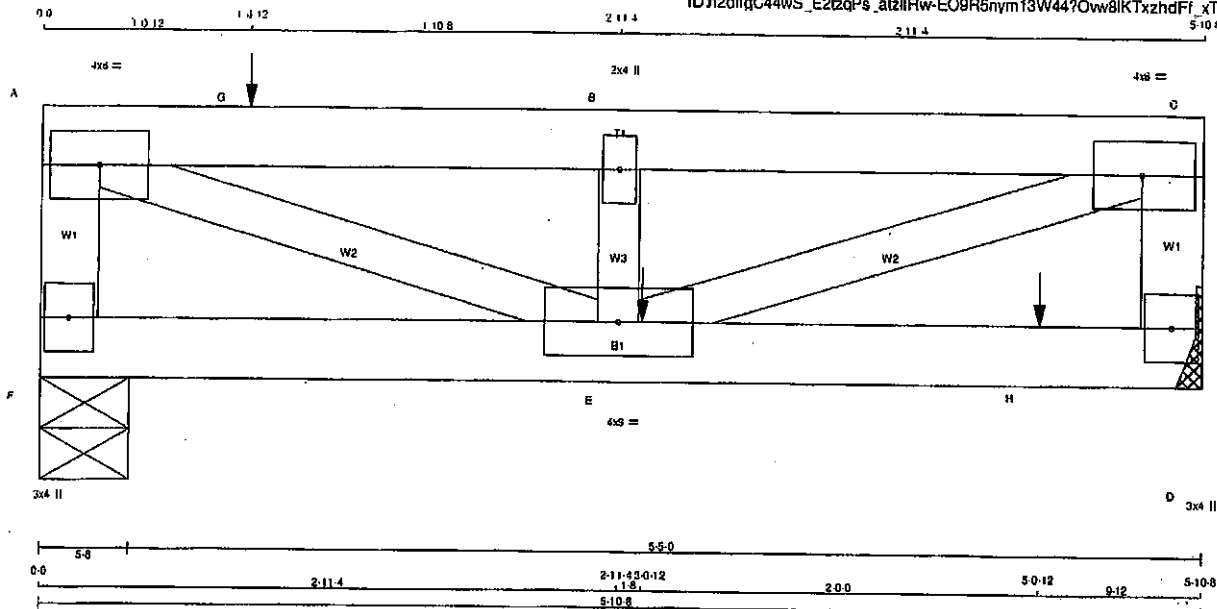
JSI GRIP = 0.33 (A) (INPUT = 0.90)  
JSI METAL = 0.09 (A) (INPUT = 1.00)



Structural component only  
DWG# T-2007096

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408151                          | T35        | 2        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

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| 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 SPACING (IN) | LOAD (PLF)  |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| F - A                                    | 12                   | TOP         |
| A - C                                    | 12                   | TOP         |
| C - D                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| F - D                                    | 11                   | SIDE (97.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| B - E                                    | 6                    | SIDE (20.3) |
| 2x3                                      | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y | X |
|-----------------------------|---------|--------|-----|-----|---|---|
| A                           | TMVW-1  | MT20   | 4.0 | 8.0 |   |   |
| B                           | TMVW-1  | MT20   | 2.0 | 4.0 |   |   |
| C                           | TMVW-1  | MT20   | 4.0 | 8.0 |   |   |
| D                           | BMV1+0  | MT20   | 3.0 | 4.0 |   |   |
| E                           | BMVWW-1 | MT20   | 4.0 | 8.0 |   |   |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG    | RECORD BRG |
|----------|-------------------------|---------------------------------|--------------|------------|
| JT       | VERT. HORZ              | DOWN HORZ                       | UPLIFT IN-SX | IN-SX      |
| F        | 1016 0                  | 1016 0                          | 0 5-8        | 5-8        |
| D        | 1085 0                  | 1085 0                          | 0 0          | MECHANICAL |

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

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN. COMPONENT REACTIONS        |
|----------------------|----------|-------------------------------------|
| JT                   | COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| F                    | 726      | 436 / 0 0 / 0 0 / 0 290 / 0 0 / 0   |
| D                    | 772      | 479 / 0 0 / 0 0 / 0 293 / 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 = 6.23 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING  
TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC2) | MAX. FACTORED VERT. LOAD (LC3) | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC2) | MAX. FACTORED VERT. LOAD (LC3) |
|--------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|-------|---------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO  |                           |                           |                                |                                |                                | FR-TO |                           |                                |                                |                                |
| F-A    | -965 / 0                  | 0.0                       | 0.0                            | 0.05 (1)                       | 7.81                           | A-E   | 0 / 1810                  | 0.22 (1)                       |                                |                                |
| A-G    | -1706 / 0                 | -91.8                     | -91.8                          | 0.28 (1)                       | 8.23                           | E-B   | -482 / 0                  | 0.04 (1)                       |                                |                                |
| G-B    | -1706 / 0                 | -91.8                     | -91.8                          | 0.28 (1)                       | 8.23                           | B-C   | 0 / 1810                  | 0.22 (1)                       |                                |                                |
| B-C    | -1706 / 0                 | -91.8                     | -91.8                          | 0.06 (1)                       | 8.25                           | C-D   |                           |                                |                                |                                |
| D-C    | -707 / 0                  | 0.0                       | 0.0                            | 0.04 (1)                       | 7.81                           |       |                           |                                |                                |                                |
| F-E    | 0 / 0                     | -43.5                     | -43.5                          | 0.05 (4)                       | 10.00                          |       |                           |                                |                                |                                |
| E-H    | 0 / 0                     | -43.5                     | -43.5                          | 0.22 (1)                       | 10.00                          |       |                           |                                |                                |                                |
| H-D    | 0 / 0                     | -43.5                     | -43.5                          | 0.22 (1)                       | 10.00                          |       |                           |                                |                                |                                |

| FACTORED CONCENTRATED LOADS (LBS) | JT     | LOC. | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|-----------------------------------|--------|------|------|------|------|-------|------|-------|------|-------|
| E                                 | 3-0-12 | -450 | -450 |      |      | FRONT | VERT | TOTAL |      | C1    |
| G                                 | 1-0-12 | -404 | -404 |      |      | TOP   | VERT | TOTAL |      | C1    |
| H                                 | 5-0-12 | -452 | -452 |      |      | FRONT | VERT | TOTAL |      | C1    |

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 4 X 20 = 80 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 = 25.8 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

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 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 25.8 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/989 (0.03")

CSI: TC=0.28/1.00 (A-B:1), BC=0.22/1.00 (D-E:1), WB=0.22/1.00 (A-E: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

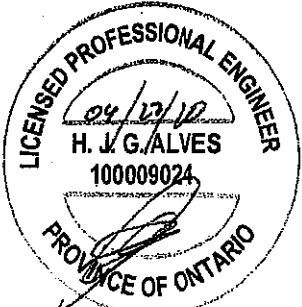
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT

| NAIL VALUES | PLATE GRIP (DRY) SHEAR (PSI) | SECTION (PLI) |
|-------------|------------------------------|---------------|
| MT20        | 818 354 1667 768 1987 1658   |               |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.59 (C) (INPUT = 0.90)  
JSI METAL = 0.21 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2007097 1/2

CONTINUED ON PAGE 2

|                                 |            |                                                                                    |     |                  |          |
|---------------------------------|------------|------------------------------------------------------------------------------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY                                                                           | PLY | JOB DESC.        | DRWG NO. |
| 408151                          | T35        | 2                                                                                  | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:20:01 2020 Page 2 |     |                  |          |
|                                 |            | ID:h2dflqC44wS E2lzoPs atzllRw-EQ9B5nym13W44?Ovw8lKTxzhdfI xTUd8oz f1zNCXS         |     |                  |          |

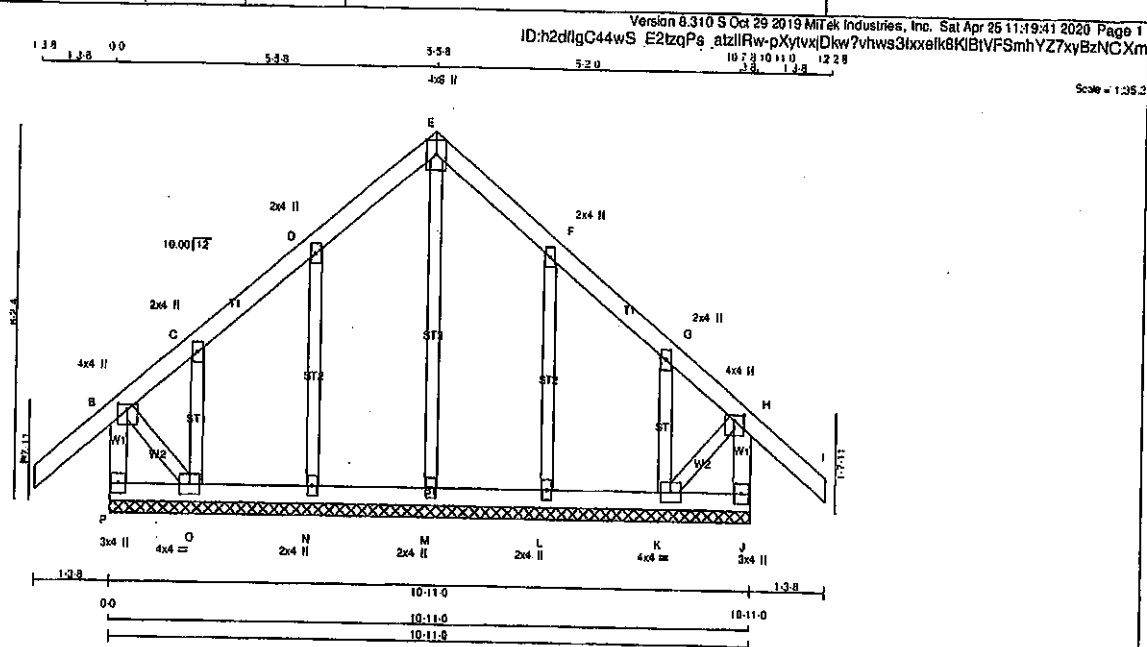
PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| F       | BMV1-p | MT20 | 3.0 | 4.0 |   |



Structural component only  
DWG# T-2007097 22

|                                 |            |             |     |                                                                                    |          |
|---------------------------------|------------|-------------|-----|------------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                          | DRWG NO. |
| 408151                          | G36        | 1           | 1   | GREEN PARK HOMES                                                                   |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 26 11:19:41 2020 Page 1 |          |



| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| P - B                 | 2x4    | DRY  | No.2   |
| A - E                 | 2x4    | DRY  | No.2   |
| E - J                 | 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\"/>

| PLATES (table is in inches) |         |      |     |     |           |
|-----------------------------|---------|------|-----|-----|-----------|
| JT TYPE                     | PLATES  | W    | LEN | Y   | X         |
| B                           | TMVW+p  | MT20 | 4.0 | 4.0 | 1.00 2.00 |
| C, D, F, G                  |         |      |     |     |           |
| C                           | TMVW+w  | MT20 | 2.0 | 4.0 |           |
| E                           | TTW+p   | MT20 | 4.0 | 6.0 | Edge      |
| H                           | TMVW+p  | MT20 | 4.0 | 4.0 | 1.00 2.00 |
| J                           | BMV1+p  | MT20 | 3.0 | 4.0 |           |
| K                           | BMVW1-i | MT20 | 4.0 | 4.0 |           |
| L, M, N                     |         |      |     |     |           |
| L                           | BMV1+w  | MT20 | 2.0 | 4.0 |           |
| O                           | BMVW1-i | 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. 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) | VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) | UNBRACED LENGTH (FT) |
| FR-TO  |                           | FROM TO          |                        | FR-TO |                           |                        |                      |
| P-B    | -274 / 0                  | 0.0              | 0.0 0.03 (1)           | 7.81  | M-E                       | -139 / 0               | 0.08 (1)             |
| A-B    | 0 / 41                    | -91.8            | -91.8 0.13 (1)         | 10.00 | N-D                       | -223 / 0               | 0.07 (1)             |
| B-C    | -57 / 0                   | -91.8            | -91.8 0.12 (1)         | 6.25  | O-C                       | -75 / 0                | 0.01 (1)             |
| C-D    | -4 / 0                    | -91.8            | -91.8 0.05 (1)         | 10.00 | L-F                       | -223 / 0               | 0.07 (1)             |
| D-E    | -22 / 0                   | -91.8            | -91.8 0.05 (1)         | 6.25  | K-G                       | -75 / 0                | 0.01 (1)             |
| E-F    | -22 / 0                   | -91.8            | -91.8 0.05 (1)         | 6.25  | B-O                       | 0 / 20                 | 0.00 (1)             |
| F-G    | -4 / 0                    | -91.8            | -91.8 0.05 (1)         | 10.00 | K-H                       | 0 / 20                 | 0.00 (1)             |
| G-H    | -57 / 0                   | -91.8            | -91.8 0.12 (1)         | 6.25  |                           |                        |                      |
| H-I    | 0 / 41                    | -91.8            | -91.8 0.13 (1)         | 10.00 |                           |                        |                      |
| J-H    | -274 / 0                  | 0.0              | 0.0 0.03 (1)           | 7.81  |                           |                        |                      |
| P-O    | 0 / 0                     | -18.5            | -18.5 0.01 (4)         | 10.00 |                           |                        |                      |
| O-N    | 0 / 12                    | -18.5            | -18.5 0.02 (4)         | 10.00 |                           |                        |                      |
| N-M    | 0 / 7                     | -18.5            | -18.5 0.02 (4)         | 10.00 |                           |                        |                      |
| M-L    | 0 / 7                     | -18.5            | -18.5 0.02 (4)         | 10.00 |                           |                        |                      |
| L-K    | 0 / 12                    | -18.5            | -18.5 0.02 (4)         | 10.00 |                           |                        |                      |
| K-J    | 0 / 0                     | -18.5            | -18.5 0.01 (4)         | 10.00 |                           |                        |                      |

TOTAL WEIGHT = 53 lb

##### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN./G

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

##### 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

CSI: TC=0.13/1.00 (H-I:1), BC=0.02/1.00 (K-L:4), WB=0.08/1.00 (E-M:1), SSI=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.

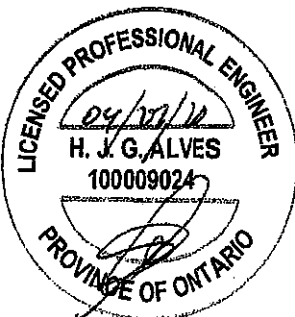
##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

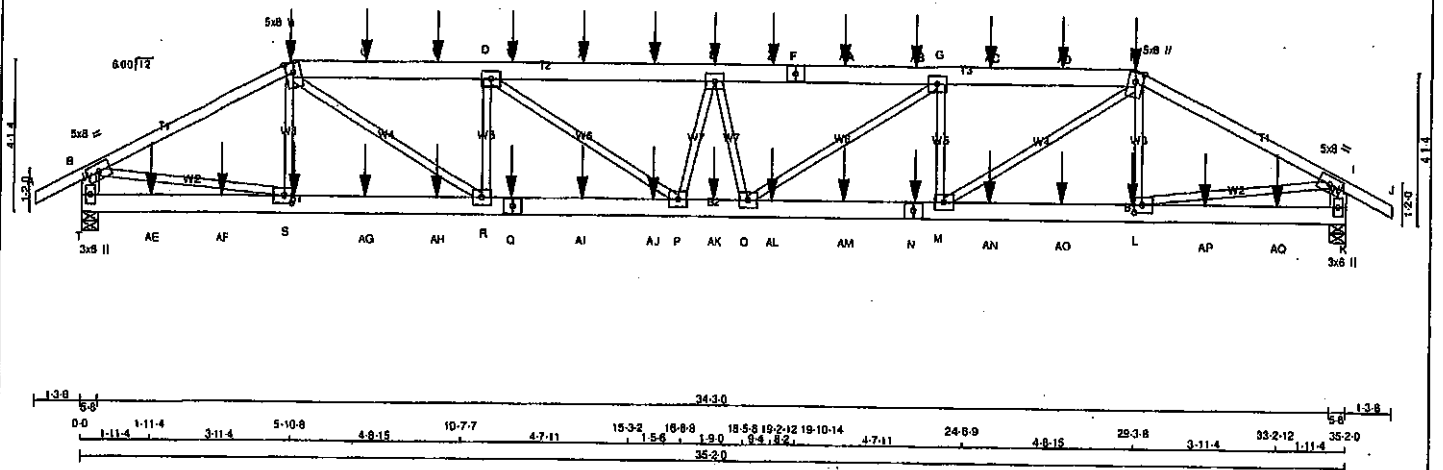
JSI GRIP= 0.21 (B) (INPUT = 0.90)  
JSI METAL= 0.12 (F) (INPUT = 1.00)



Structural component only  
DWG# T-2007079



|                                                                                    |                          |                      |                 |                                                                         |          |
|------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-------------------------------------------------------------------------|----------|
| JOB NAME<br><b>408152</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.                                                             |          |
| Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:29:32 2020 Page 1 |                          |                      |                 | ID:77vF7aG0E03cRU8X1SkzIWYK-0EAtx1sxZWS34IYatZ2E8M8CTQSHDeTgR0nICQzNCOX |          |
| Scale = 1:57.3                                                                     |                          |                      |                 |                                                                         |          |



| LUMBER            | SIZE | DRY | LUMBER | DESIGN |
|-------------------|------|-----|--------|--------|
| N. L. G. A. RULES |      |     |        |        |
| CHORDS            | SIZE | DRY | LUMBER | DESIGN |
| A - C             | 2x4  | DRY | No.2   | SPF    |
| C - F             | 2x6  | DRY | No.2   | SPF    |
| F - H             | 2x8  | DRY | No.2   | SPF    |
| H - J             | 2x4  | DRY | No.2   | SPF    |
| T - B             | 2x6  | DRY | No.2   | SPF    |
| K - I             | 2x6  | DRY | No.2   | SPF    |
| T - Q             | 2x6  | DRY | No.2   | SPF    |
| Q - N             | 2x6  | DRY | No.2   | SPF    |
| N - K             | 2x6  | DRY | No.2   | SPF    |
| ALL WEBS          | 2x3  | DRY | No.2   | SPF    |
| EXCEPT            |      |     |        |        |

DRY: SEASONED LUMBER.

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

| CHORDS                                   | ROWS | SURFACE SPACING (IN) | LOAD (PLF)   |
|------------------------------------------|------|----------------------|--------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |      |                      |              |
| A - C                                    | 1    | 12                   | SIDE (61.0)  |
| H - J                                    | 1    | 12                   | SIDE (61.0)  |
| C - F                                    | 2    | 12                   | SIDE (61.0)  |
| F - H                                    | 2    | 12                   | SIDE (61.0)  |
| T - B                                    | 2    | 12                   | TOP          |
| K - I                                    | 2    | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |      |                      |              |
| T - Q                                    | 2    | 12                   | SIDE (183.1) |
| Q - 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.

GIROER 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 | GROSS REACTION   | BRG   | BRG   |
| JT             | VERT           | DOWN             | IN-SX | IN-SX |
| T              | 3331           | 0                | 5-8   | 5-8   |
| K              | 3331           | 0                | 5-8   | 5-8   |

UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | DEAD     | SOIL  |
|-----------|------------------------------|----------|-------|
| JT        | COMBINED                     | SNOW     | LIVE  |
| T         | 2358                         | 1544 / 0 | 0 / 0 |
| K         | 2358                         | 1544 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) T, 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  | MEMB.     | MAX. FACTORED | FACTORED | MAX. UNBRACED | WEBS  | MEMB. | MAX. FACTORED | FACTORED | MAX. UNBRACED |
|---------|-----------|---------------|----------|---------------|-------|-------|---------------|----------|---------------|
| FR-TO   |           |               |          |               | FR-TO |       |               |          |               |
| A - B   | 0 / 28    | -91.8         | -91.8    | 0.07 (1)      | 10.00 | S - C | -427 / 8      | 0.05 (1) | 0.05 (1)      |
| B - C   | -5077 / 0 | -91.8         | -91.8    | 0.52 (1)      | 3.87  | C - R | 0 / 3083      | 0.38 (1) | 0.38 (1)      |
| C - U   | -7108 / 0 | -91.8         | -91.8    | 0.23 (1)      | 4.33  | R - D | -1585 / 0     | 0.19 (1) | 0.19 (1)      |
| U - V   | -7108 / 0 | -91.8         | -91.8    | 0.23 (1)      | 4.33  | O - G | 0 / 1071      | 0.13 (1) | 0.13 (1)      |
| V - D   | -7108 / 0 | -91.8         | -91.8    | 0.23 (1)      | 4.33  | M - G | -1585 / 0     | 0.19 (1) | 0.19 (1)      |
| D - W   | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  | L - H | -427 / 8      | 0.05 (1) | 0.05 (1)      |
| W - X   | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  | H - S | 0 / 4592      | 0.57 (1) | 0.57 (1)      |
| X - Y   | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  | L - I | 0 / 4592      | 0.57 (1) | 0.57 (1)      |
| Y - E   | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  | D - P | 0 / 1071      | 0.13 (1) | 0.13 (1)      |
| E - Z   | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  | M - H | 0 / 3083      | 0.38 (1) | 0.38 (1)      |
| Z - F   | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  | P - E | -505 / 0      | 0.06 (1) | 0.06 (1)      |
| F - AA  | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  | E - O | -505 / 0      | 0.06 (1) | 0.06 (1)      |
| AA - AB | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  |       |               |          |               |
| AB - G  | -7994 / 0 | -91.8         | -91.8    | 0.27 (1)      | 4.10  |       |               |          |               |
| G - AC  | -7108 / 0 | -91.8         | -91.8    | 0.23 (1)      | 4.33  |       |               |          |               |
| AC - AD | -7108 / 0 | -91.8         | -91.8    | 0.23 (1)      | 4.33  |       |               |          |               |
| AD - H  | -7108 / 0 | -91.8         | -91.8    | 0.23 (1)      | 4.33  |       |               |          |               |
| H - I   | -5077 / 0 | -91.8         | -91.8    | 0.52 (1)      | 3.87  |       |               |          |               |
| I - J   | 0 / 28    | -91.8         | -91.8    | 0.07 (1)      | 10.00 |       |               |          |               |
| T - B   | -3255 / 0 | 0.0           | 0.0      | 0.11 (1)      | 7.69  |       |               |          |               |
| K - I   | -3255 / 0 | 0.0           | 0.0      | 0.11 (1)      | 7.69  |       |               |          |               |
| T - AE  | 0 / 0     | -18.5         | -18.5    | 0.06 (4)      | 10.00 |       |               |          |               |
| AE - AF | 0 / 0     | -18.5         | -18.5    | 0.06 (4)      | 10.00 |       |               |          |               |
| AF - S  | 0 / 0     | -18.5         | -18.5    | 0.06 (4)      | 10.00 |       |               |          |               |
| S - AG  | 0 / 4563  | -18.5         | -18.5    | 0.34 (1)      | 10.00 |       |               |          |               |
| AG - AH | 0 / 4563  | -18.5         | -18.5    | 0.34 (1)      | 10.00 |       |               |          |               |
| AH - R  | 0 / 4563  | -18.5         | -18.5    | 0.34 (1)      | 10.00 |       |               |          |               |
| R - Q   | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| Q - AI  | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| AI - AJ | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| AJ - P  | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| P - AK  | 0 / 8119  | -18.5         | -18.5    | 0.56 (1)      | 10.00 |       |               |          |               |
| AK - O  | 0 / 8119  | -18.5         | -18.5    | 0.56 (1)      | 10.00 |       |               |          |               |
| O - AL  | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| AL - AM | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| AM - N  | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| N - M   | 0 / 7105  | -18.5         | -18.5    | 0.52 (1)      | 10.00 |       |               |          |               |
| M - AN  | 0 / 4563  | -18.5         | -18.5    | 0.34 (1)      | 10.00 |       |               |          |               |
| AN - AO | 0 / 4563  | -18.5         | -18.5    | 0.34 (1)      | 10.00 |       |               |          |               |
| AO - L  | 0 / 4563  | -18.5         | -18.5    | 0.34 (1)      | 10.00 |       |               |          |               |
| L - AP  | 0 / 0     | -18.5         | -18.5    | 0.06 (4)      | 10.00 |       |               |          |               |
| AP - AQ | 0 / 0     | -18.5         | -18.5    | 0.06 (4)      | 10.00 |       |               |          |               |

TOTAL WEIGHT = 2 X 170 = 341 lb

DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 25.8 PSF  
DL = 6.0 PSF  
ROT 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 6.0W12

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2010, CBC 2012, 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 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/889 (0.21")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/889 (0.39")

CSI: TC=0.52/1.00 (H-E), SC=0.58/1.00 (O-P), WB=0.57/1.00 (B-S), SSI=0.16/1.00 (D-E)

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 768 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.84 (S) (INPUT = 0.90)  
JSI METAL=0.84 (N) (INPUT = 1.00)



Structural component only  
DWG# T-2007107 1/2

CONTINUED ON PAGE 2

|                                 |                   |               |          |                                                                                                                                                                |          |
|---------------------------------|-------------------|---------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| JOB NAME<br>408152              | TRUSS NAME<br>T40 | 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 Mittek Industries, Inc. Sat Apr 25 11:29:32 2020 Page 2<br>ID:7vF?ag0E03cRUj6X1ISrkzWYK-0EAhtszZWS34IYotZ2E6M6CTGSHDaTqR0niCOzNCOX |          |

**PLATES (table is in inches)**

| JT TYPE    | PLATES | W   | LEN | Y    | X    |
|------------|--------|-----|-----|------|------|
| B TMVW-t   | MT20   | 5.0 | 8.0 |      |      |
| C TTWW+m   | MT20   | 5.0 | 8.0 | Edge |      |
| D, E, G    |        |     |     |      |      |
| D TMVW-t   | MT20   | 5.0 | 8.0 |      |      |
| F TS-t     | MT20   | 5.0 | 8.0 |      |      |
| H TTWW+m   | MT20   | 5.0 | 8.0 | Edge |      |
| I TMVW-t   | MT20   | 5.0 | 8.0 |      |      |
| K BMV1-p   | MT20   | 3.0 | 6.0 |      |      |
| L BMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| M, O, P, R |        |     |     |      |      |
| M BMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| N BS-t     | MT20   | 5.0 | 6.0 |      |      |
| Q BS-t     | MT20   | 5.0 | 6.0 |      |      |
| S BMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| T BMV1-p   | MT20   | 3.0 | 6.0 |      |      |

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

# LOADING

TOTAL LOAD CASES: (4)

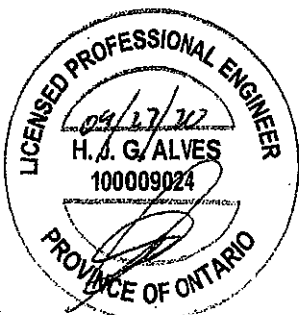
| CHORDS |             |                  |           | WEBS     |             |                       |                       |
|--------|-------------|------------------|-----------|----------|-------------|-----------------------|-----------------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LOC. (LC) | MEMB.    | FORCE (LBS) | MAX. FACTORED CS (LC) | MAX. FACTORED CS (LC) |
| FR-TO  |             | FROM TO          |           | FR-TO    |             | LENGTH                |                       |
| AQ-K   | 0.0         | -18.5            | -18.5     | 0.08 (4) | 10.00       |                       |                       |

# FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| C  | 5-10-8  | -438 | -438 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| E  | 17-7-0  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| H  | 29-3-8  | -438 | -438 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L  | 29-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 23-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 11-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 5-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 7-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 9-11-4  | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W  | 11-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X  | 13-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y  | 15-11-4 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z  | 19-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AA | 21-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 23-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC | 25-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 27-2-12 | -110 | -110 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 1-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 3-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 7-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 9-11-4  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 13-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 15-11-4 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 17-7-0  | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 19-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AM | 21-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AN | 25-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AO | 27-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AP | 31-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AQ | 33-2-12 | -28  | -28  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

# CONNECTION REQUIREMENTS

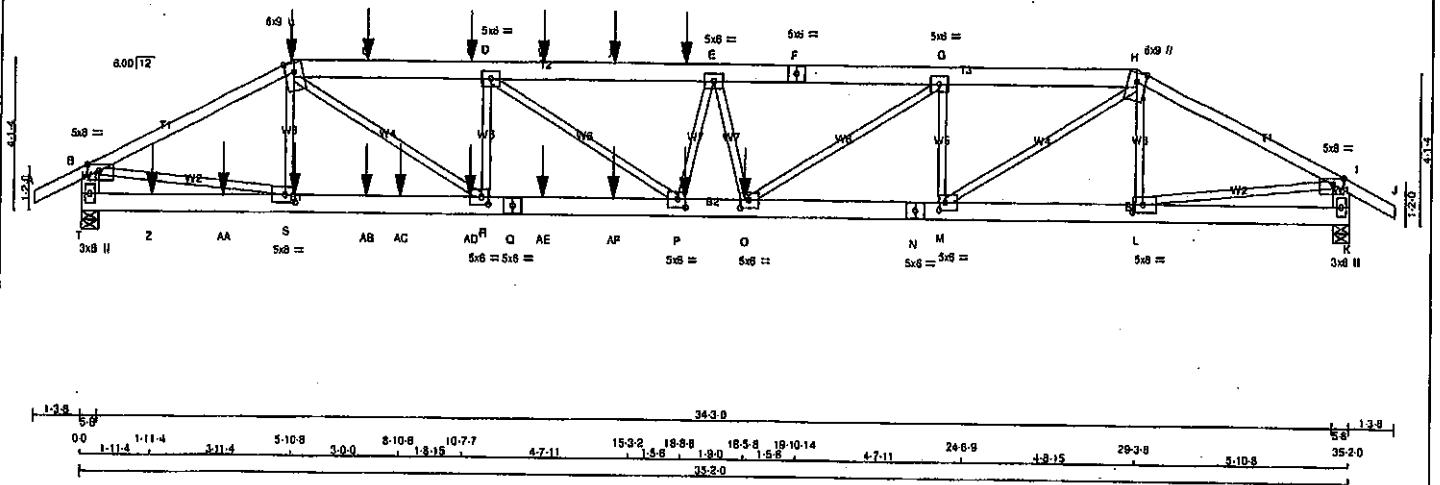
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only  
DWG# T-2007107 3/2

|                                 |                           |                      |                 |                                      |          |
|---------------------------------|---------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408152</b>       | TRUSS NAME<br><b>T40Z</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 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:29:34 2020 Page 1  
ID:7vF7aG0E03cRUj6X1;SrkziWYK-ydH2MluB57mkK31?\_4iCnCV7E2GhUJzvKGpGJzNCOV  
Scale = 1/32'



| 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 |
| J - B             | 2x6  | DRY    | No.2 SPF |
| T - I             | 2x6  | DRY    | No.2 SPF |
| K - Q             | 2x6  | DRY    | No.2 SPF |
| Q - N             | 2x6  | DRY    | No.2 SPF |
| N - K             | 2x6  | DRY    | No.2 SPF |
| ALL WEBS          | 2x3  | DRY    | No.2 SPF |
| EXCEPT            |      |        |          |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF)   |
|-----------------------------------------|----------------------|--------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |              |
| A-C                                     | 12                   | SIDE (61.0)  |
| H-J                                     | 12                   | TOP          |
| C-F                                     | 12                   | SIDE (61.0)  |
| F-H                                     | 12                   | TOP          |
| T-B                                     | 12                   | TOP          |
| K-I                                     | 12                   | TOP          |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |              |
| T-Q                                     | 12                   | SIDE (183.1) |
| Q-N                                     | 12                   | SIDE (0.0)   |
| N-K                                     | 12                   | TOP          |
| 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.

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

| BEARINGS |                | FACTORED |       | MAXIMUM FACTORED |       | INPUT  |     | RECORD |       |
|----------|----------------|----------|-------|------------------|-------|--------|-----|--------|-------|
| JT       | GROSS REACTION | VERT     | HORIZ | DOWN             | HORIZ | UPLIFT | BRG | BRG    | IN-SX |
| T        | 4474           | 0        | 0     | 4474             | 0     | 0      | 5-8 | 5-8    | 5-8   |
| K        | 3775           | 0        | 0     | 3775             | 0     | 0      | 5-8 | 5-8    | 5-8   |

| UNFACTORED REACTIONS |          | 1ST LCASE |       | MAX./MIN. COMPONENT REACTIONS |          |
|----------------------|----------|-----------|-------|-------------------------------|----------|
| JT                   | COMBINED | SNOW      | LIVE  | PERM. LIVE                    | WIND     |
| T                    | 3182     | 2088 / 0  | 0 / 0 | 0 / 0                         | 1073 / 0 |
| K                    | 2665     | 1772 / 0  | 0 / 0 | 0 / 0                         | 893 / 0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.19 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 (LBS) | MAX. (PLF) | MAX. (LBS) | MEMB. | FORCE (LBS) | MAX. (LBS) |
| FR-TO  |             |                  |            |            | FR-TO |             |            |
| A-B    | 0 / 28      | -91.8            | -91.8      | 0.07 (1)   | S-C   | -394 / 25   | 0.05 (1)   |
| B-C    | -7163 / 0   | -91.8            | -91.8      | 0.71 (1)   | C-F   | 0 / 4987    | 0.58 (1)   |
| C-U    | -10298 / 0  | -91.8            | -91.8      | 0.32 (1)   | R-D   | -2057 / 0   | 0.28 (1)   |
| U-V    | -10298 / 0  | -91.8            | -91.8      | 0.32 (1)   | Q-G   | 0 / 3611    | 0.45 (1)   |
| V-D    | -10298 / 0  | -91.8            | -91.8      | 0.32 (1)   | M-G   | -2837 / 0   | 0.32 (1)   |
| D-W    | -12012 / 0  | -91.8            | -91.8      | 0.45 (1)   | L-H   | -816 / 0    | 0.08 (1)   |
| W-X    | -12012 / 0  | -91.8            | -91.8      | 0.45 (1)   | B-S   | 0 / 6479    | 0.80 (1)   |
| X-Y    | -12012 / 0  | -91.8            | -91.8      | 0.45 (1)   | L-I   | 0 / 5333    | 0.66 (1)   |
| Y-E    | -12012 / 0  | -91.8            | -91.8      | 0.45 (1)   | D-P   | 0 / 2068    | 0.28 (1)   |
| E-F    | -12381 / 0  | -91.8            | -91.8      | 0.40 (1)   | M-H   | 0 / 4950    | 0.61 (1)   |
| F-G    | -12381 / 0  | -91.8            | -91.8      | 0.40 (1)   | P-E   | -1110 / 0   | 0.14 (1)   |
| G-H    | -9386 / 0   | -91.8            | -91.8      | 0.25 (1)   | B-O   | 0 / 383     | 0.05 (1)   |
| H-I    | -5898 / 0   | -91.8            | -91.8      | 0.50 (1)   |       |             |            |
| I-J    | 0 / 28      | -91.8            | -91.8      | 0.07 (1)   |       |             |            |
| T-B    | -4430 / 0   | 0.0              | 0.0        | 0.18 (1)   |       |             |            |
| K-I    | -3718 / 0   | 0.0              | 0.0        | 0.13 (1)   |       |             |            |

|       |           |       |       |          |       |
|-------|-----------|-------|-------|----------|-------|
| T-Z   | 0 / 0     | -18.5 | -18.5 | 0.08 (4) | 10.00 |
| Z-AA  | 0 / 0     | -18.5 | -18.5 | 0.08 (4) | 10.00 |
| AA-S  | 0 / 0     | -18.5 | -18.5 | 0.08 (4) | 10.00 |
| S-AB  | 0 / 6432  | -18.5 | -18.5 | 0.69 (1) | 10.00 |
| AB-AC | 0 / 6432  | -18.5 | -18.5 | 0.69 (1) | 10.00 |
| AC-AD | 0 / 6432  | -18.5 | -18.5 | 0.69 (1) | 10.00 |
| AD-R  | 0 / 6432  | -18.5 | -18.5 | 0.69 (1) | 10.00 |
| R-Q   | 0 / 10298 | -18.5 | -18.5 | 0.76 (1) | 10.00 |
| Q-AE  | 0 / 10298 | -18.5 | -18.5 | 0.76 (1) | 10.00 |
| AE-AF | 0 / 10298 | -18.5 | -18.5 | 0.76 (1) | 10.00 |
| AF-P  | 0 / 10298 | -18.5 | -18.5 | 0.76 (1) | 10.00 |
| P-O   | 0 / 12286 | -18.5 | -18.5 | 0.91 (1) | 10.00 |
| O-N   | 0 / 9385  | -18.5 | -18.5 | 0.72 (1) | 10.00 |
| N-M   | 0 / 9385  | -18.5 | -18.5 | 0.72 (1) | 10.00 |
| M-L   | 0 / 5303  | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| L-K   | 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  | 5-10-8  | -438  | -438  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| O  | 18-5-8  | -2436 | -2436 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| P  | 16-9-12 | -17   | -17   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| S  | 5-11-4  | -26   | -26   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| U  | 7-11-4  | -110  | -110  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| V  | 10-9-12 | -82   | -82   | ---  | BACK | VERT | TOTAL | ---  | C1    |
| W  | 12-9-12 | -82   | -82   | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### 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 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  
- 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 (0.31")  
ALLOWABLE DEFL. (TL) = L/360 (1.17")  
CALCULATED VERT. DEFL. (TL) = U/740 (0.57")

CSI: TC=0.71/1.00 (B-C:1), BC=0.91/1.00 (D-P:1), WB=0.80/1.00 (B-S:1), SS=0.15/1.00 (R-S: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

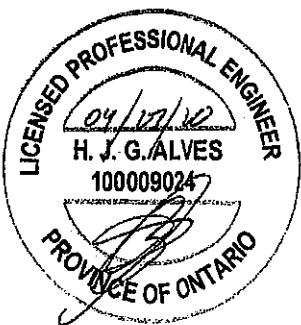
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP (DRY) SHEAR SECTION (PS) (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 = 0.89 (S) (INPUT = 0.80)  
JSI METAL = 0.93 (N) (INPUT = 1.00)



Structural component only  
DWG# T-2007108

CONTINUED ON PAGE 2

|                                 |                           |                      |                 |                                                                                    |          |
|---------------------------------|---------------------------|----------------------|-----------------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>408152</b>       | TRUSS NAME<br><b>T40Z</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 |                           |                      |                 | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:29:34 2020 Page 2 |          |
|                                 |                           |                      |                 | ID:17vF?aG0E03cRUj6X1S/kziWYK-ydH2MuB57mK311? 4iCnCV?E2GhUJzvKG6GJzNCOV            |          |

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMWV-p | MT20   | 5.0 | 8.0 | 2.00 3.50 |
| C                           | TTWV+m | MT20   | 6.0 | 9.0 | Edge      |
| D, E, O                     |        |        |     |     |           |
| D                           | TMWV-i | MT20   | 5.0 | 6.0 |           |
| F                           | TS-i   | MT20   | 5.0 | 6.0 |           |
| H                           | TTWV+m | MT20   | 6.0 | 9.0 | Edge      |
| I                           | TMWV-p | MT20   | 5.0 | 8.0 | 2.00 3.50 |
| K                           | BMV1+p | MT20   | 3.0 | 6.0 |           |
| L                           | BMWV-i | MT20   | 5.0 | 8.0 | 2.50 3.50 |
| M                           | BMWV-i | MT20   | 5.0 | 6.0 | 2.50 2.00 |
| N                           | BS-i   | MT20   | 5.0 | 6.0 |           |
| O                           | BMWV-i | MT20   | 5.0 | 8.0 | 2.75 2.75 |
| P                           | BMWV-i | MT20   | 5.0 | 6.0 | 2.75 2.75 |
| Q                           | BS-i   | MT20   | 5.0 | 6.0 |           |
| R                           | BMWV-i | MT20   | 5.0 | 8.0 | 2.50 2.00 |
| S                           | BMWV-i | MT20   | 5.0 | 8.0 | 2.50 3.50 |
| T                           | BMV1+p | MT20   | 3.0 | 6.0 |           |

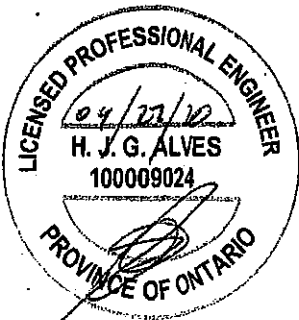
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| X  | 14-9-12 | -82  | -82  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Y  | 16-9-12 | -82  | -82  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Z  | 1-11-4  | -25  | -26  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AA | 3-11-4  | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AB | 7-11-4  | -26  | -26  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AC | 8-10-8  | -639 | -639 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AD | 10-9-12 | -17  | -17  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AE | 12-9-12 | -17  | -17  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AF | 14-9-12 | -17  | -17  | ---  | BACK | VERT | TOTAL | ---  | C1    |

CONNECTION REQUIREMENTS

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



Structural component only  
DWG# T-2007108

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
|----------|------------|----------|-----|-------------|------------------|----------|
| 408152   | T41        | 2        | 1   | TRUSS DESC. |                  |          |

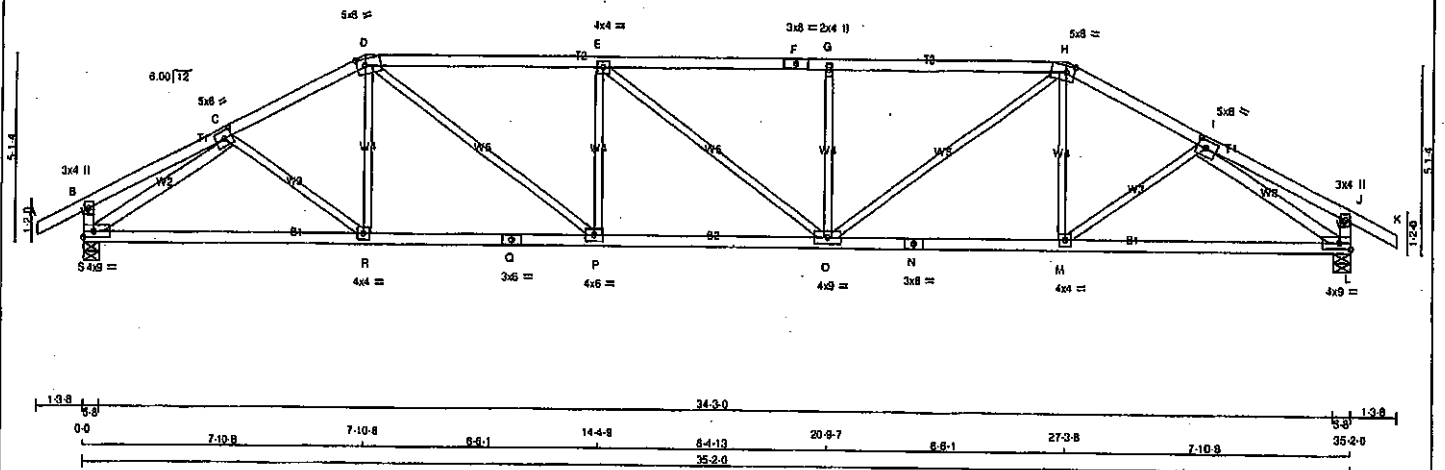
Tamarack Roof Truss, Burlington

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1.38 0.8 4.08 10.8 31.0 7.10 8 5.4 14.4 9 5.4 13 30.9 7 27.3 5 31.0 31.8 4.28 1.38

ScNo = 137.3



| LUMBER                |      |        |        |
|-----------------------|------|--------|--------|
| N. L. G. A. RULES     |      |        |        |
| CHORDS                | SIZE | LUMBER | DESCR. |
| A - D                 | 2x4  | DRY    | No.2   |
| D - F                 | 2x4  | DRY    | No.2   |
| F - H                 | 2x4  | DRY    | No.2   |
| H - K                 | 2x4  | DRY    | No.2   |
| 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 EXCEPT       | 2x3  | DRY    | No.2   |
| 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 |      |      |
| C TMVW+L                   | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| D TTWW-m                   | MT20   | 5.0 | 8.0 | 2.25 | 2.75 |
| E TMVW+L                   | MT20   | 4.0 | 4.0 |      |      |
| F TS-I                     | MT20   | 3.0 | 8.0 |      |      |
| G TMVW+L                   | MT20   | 2.0 | 4.0 |      |      |
| H TTWW-m                   | MT20   | 5.0 | 8.0 | 2.25 | 2.75 |
| I TMVW+L                   | MT20   | 5.0 | 8.0 | 2.50 | 2.75 |
| J TMV+p                    | MT20   | 3.0 | 4.0 |      |      |
| L BMVW+L                   | MT20   | 4.0 | 9.0 |      | Edge |
| M BMVW+L                   | MT20   | 4.0 | 4.0 |      |      |
| N SS-I                     | MT20   | 3.0 | 8.0 |      |      |
| O BMVW+L                   | MT20   | 4.0 | 9.0 |      |      |
| P BMVW+L                   | MT20   | 4.0 | 8.0 |      |      |
| Q SS-I                     | MT20   | 3.0 | 8.0 |      |      |
| R BMVW+L                   | MT20   | 4.0 | 4.0 |      |      |
| S BMVW+L                   | MT20   | 4.0 | 9.0 |      | Edge |

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

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                |                     |       |           |       |         |       |
|-----------------------------------------------------------------------------------------------|----------------|---------------------|-------|-----------|-------|---------|-------|
| BEARINGS                                                                                      |                |                     |       |           |       |         |       |
|                                                                                               | FACTORED       | MAXIMUM FACTORED    | INPUT | REQD      |       |         |       |
|                                                                                               | GROSS REACTION | GROSS REACTION      | BRG   | BRG       |       |         |       |
| JT                                                                                            | VERT           | HORZ                | DOWN  | UPLIFT    | IN-SX |         |       |
| S                                                                                             | 2063           | 0                   | 2063  | 0         | 5-8   | 5-8     |       |
| L                                                                                             | 2063           | 0                   | 2063  | 0         | 5-8   | 5-8     |       |
| UNFACTORED REACTIONS                                                                          |                |                     |       |           |       |         |       |
| 1ST LCASE                                                                                     | MAX/MIN        | COMPONENT REACTIONS |       |           |       |         |       |
| JT                                                                                            | COMBINED       | SNOW                | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| S                                                                                             | 1457           | 969 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0 / 0 |
| L                                                                                             | 1457           | 969 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 488 / 0 | 0 / 0 |
| BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) S, L                                    |                |                     |       |           |       |         |       |
| BRACING                                                                                       |                |                     |       |           |       |         |       |
| TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.94 FT.                                    |                |                     |       |           |       |         |       |
| MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.               |                |                     |       |           |       |         |       |
| ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.                    |                |                     |       |           |       |         |       |
| LOADING                                                                                       |                |                     |       |           |       |         |       |
| TOTAL LOAD CASES: (4)                                                                         |                |                     |       |           |       |         |       |

| CHORDS |                           |                           |                        | WEBS  |                           |                        |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM (PL)                 | LENGTH (LC)            | FR-TO |                           |                        |  |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)         | 10.00 | C-R                       | 0 / 93 0.03 (4)        |  |
| B-C    | 0 / 16                    | -91.8                     | -91.8 0.20 (1)         | 10.00 | R-D                       | 0 / 121 0.04 (4)       |  |
| C-D    | -2799 / 0                 | -91.8                     | -91.8 0.32 (1)         | 3.68  | D-P                       | 0 / 1267 0.29 (1)      |  |
| D-E    | -3508 / 0                 | -91.8                     | -91.8 0.35 (1)         | 2.94  | P-E                       | -643 / 0 0.25 (1)      |  |
| E-F    | -3507 / 0                 | -91.8                     | -91.8 0.33 (1)         | 2.94  | E-O                       | -2 / 0 0.00 (1)        |  |
| F-G    | -3507 / 0                 | -91.8                     | -91.8 0.34 (1)         | 2.94  | O-G                       | -643 / 0 0.25 (1)      |  |
| G-H    | -3507 / 0                 | -91.8                     | -91.8 0.34 (1)         | 2.95  | C-H                       | 0 / 1268 0.26 (1)      |  |
| H-I    | -2799 / 0                 | -91.8                     | -91.8 0.32 (1)         | 3.68  | M-H                       | 0 / 121 0.04 (4)       |  |
| I-J    | 0 / 16                    | -91.8                     | -91.8 0.20 (1)         | 10.00 | M-I                       | 0 / 93 0.03 (4)        |  |
| J-K    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)         | 10.00 | S-C                       | -2974 / 0 0.83 (1)     |  |
| S-B    | -270 / 0                  | 0.0                       | 0.0 0.03 (1)           | 7.81  | I-L                       | -2974 / 0 0.83 (1)     |  |
| L-J    | -270 / 0                  | 0.0                       | 0.0 0.03 (1)           | 7.81  |                           |                        |  |
| S-R    | 0 / 2417                  | -18.5                     | -18.5 0.53 (1)         | 10.00 |                           |                        |  |
| R-Q    | 0 / 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 0.64 (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, 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                                                                             |                |
| - 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 (0.21")                                                           |                |
| ALLOWABLE DEFL.(TL) = L/360 (1.17")                                                                  |                |
| CALCULATED VERT. DEFL.(TL) = L/999 (0.41")                                                           |                |
| CSI: TC=0.85/1.00 (D-E:1), BC=0.64/1.00 (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 SECTION (PSI)                                                                  | (PL) (PL) (PL) |
| MAX MIN MAX MIN MAX MIN                                                                              |                |
| MT20 618 354 1667 788 1987 1656                                                                      |                |
| PLATE PLACEMENT TOL. = 0.250 inches                                                                  |                |
| PLATE ROTATION TOL. = 5.0 Deg.                                                                       |                |
| JSI GRIP = 0.89 (L) (INPUT = 0.90)                                                                   |                |
| JSI METAL = 0.77 (N) (INPUT = 1.00)                                                                  |                |



Structural component only  
DWG# T-2007109

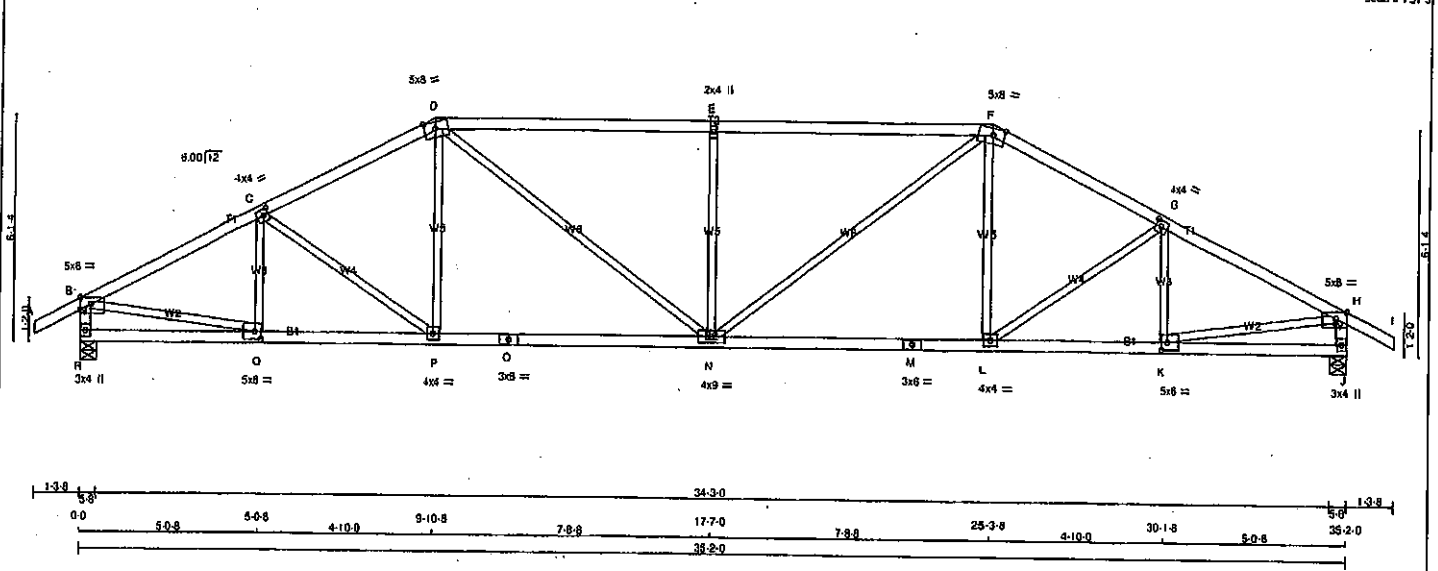
|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>408152 | TRUSS NAME<br>T42 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1/4" = 1'-0"



**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 in inches)**

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| B       | TMWV-p | MT20 | 5.0 | 8.0 | Edge 3.50 |
| C       | TMWV-t | MT20 | 4.0 | 4.0 | 2.00 1.75 |
| D       | TTWV-m | MT20 | 5.0 | 8.0 | 2.25 3.75 |
| E       | TMW-w  | MT20 | 2.0 | 4.0 |           |
| F       | TTWV-m | MT20 | 5.0 | 8.0 | 2.25 3.75 |
| G       | TMWV-t | MT20 | 4.0 | 4.0 | 2.00 1.75 |
| H       | TMWV-p | MT20 | 5.0 | 8.0 | Edge 3.50 |
| J       | BMV1-p | MT20 | 3.0 | 4.0 |           |
| K       | BMWV-t | MT20 | 5.0 | 8.0 | 2.50 2.00 |
| L       | BMWV-t | MT20 | 4.0 | 4.0 |           |
| M       | BS-t   | MT20 | 3.0 | 6.0 |           |
| N       | BMWV-t | MT20 | 4.0 | 9.0 |           |
| O       | BS-t   | MT20 | 3.0 | 6.0 |           |
| P       | BMWV-t | MT20 | 4.0 | 4.0 |           |
| Q       | BMWV-t | MT20 | 5.0 | 8.0 | 2.50 2.00 |
| R       | BMV1-p | MT20 | 3.0 | 4.0 |           |

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

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

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | DOWN                            | UPLIFT    | IN-SX    |
| R  | 2063                    | 0                               | 0         | 5-8      |
| J  | 2063                    | 0                               | 0         | 5-8      |

**UNFACTORED REACTIONS**

| 1ST LCASE   | MAX/MIN. COMPONENT REACTIONS |
|-------------|------------------------------|
| JT COMBINED | SNOW                         |
| R           | 1457 989 / 0                 |
| J           | 1457 989 / 0                 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.78 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS |                                 |                                 |                 | WEBS  |                                 |                   |  |
|--------|---------------------------------|---------------------------------|-----------------|-------|---------------------------------|-------------------|--|
| MEMB.  | MAX. FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | MAX<br>CSI (LC) | MEMB. | MAX. FACTORED<br>FORCE<br>(LBS) | MAX<br>CSI (LC)   |  |
| FR-TO  |                                 | FROM TO                         |                 | FR-TO |                                 |                   |  |
| A-B    | 0 / 28                          | -91.8                           | -91.8 0.12 (1)  | 10.00 | Q-C                             | -353 / 0 0.08 (1) |  |
| B-C    | -2834 / 0                       | -91.8                           | -91.8 0.39 (1)  | 3.81  | C-P                             | -210 / 0 0.13 (1) |  |
| C-D    | -2887 / 0                       | -91.8                           | -91.8 0.37 (1)  | 3.91  | P-O                             | 0 / 246 0.06 (4)  |  |
| D-E    | -3060 / 0                       | -91.8                           | -91.8 0.97 (1)  | 2.78  | D-N                             | 0 / 844 0.19 (1)  |  |
| E-F    | -3060 / 0                       | -91.8                           | -91.8 0.97 (1)  | 2.78  | N-E                             | -872 / 0 0.51 (1) |  |
| F-G    | -2887 / 0                       | -91.8                           | -91.8 0.37 (1)  | 3.91  | N-F                             | 0 / 844 0.19 (1)  |  |
| G-H    | -2834 / 0                       | -91.8                           | -91.8 0.39 (1)  | 3.81  | L-F                             | 0 / 246 0.06 (4)  |  |
| H-I    | 0 / 28                          | -91.8                           | -91.8 0.12 (1)  | 10.00 | L-G                             | -210 / 0 0.13 (1) |  |
| R-B    | -2018 / 0                       | 0.0                             | 0.0 0.20 (1)    | 5.94  | K-G                             | -353 / 0 0.08 (1) |  |
| J-H    | -2018 / 0                       | 0.0                             | 0.0 0.20 (1)    | 5.94  | B-Q                             | 0 / 2591 0.56 (1) |  |
|        |                                 |                                 |                 |       | K-H                             | 0 / 2591 0.56 (1) |  |
| R-Q    | 0 / 0                           | -18.5                           | -18.5 0.10 (4)  | 10.00 |                                 |                   |  |
| Q-P    | 0 / 2555                        | -18.5                           | -18.5 0.51 (1)  | 10.00 |                                 |                   |  |
| P-O    | 0 / 2388                        | -18.5                           | -18.5 0.49 (1)  | 10.00 |                                 |                   |  |
| O-N    | 0 / 2388                        | -18.5                           | -18.5 0.49 (1)  | 10.00 |                                 |                   |  |
| N-M    | 0 / 2388                        | -18.5                           | -18.5 0.49 (1)  | 10.00 |                                 |                   |  |
| M-L    | 0 / 2388                        | -18.5                           | -18.5 0.49 (1)  | 10.00 |                                 |                   |  |
| L-K    | 0 / 2555                        | -18.5                           | -18.5 0.51 (1)  | 10.00 |                                 |                   |  |
| K-J    | 0 / 0                           | -18.5                           | -18.5 0.10 (4)  | 10.00 |                                 |                   |  |

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/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 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

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

CALCULATED VERT. DEFL. (LL) = L/999 (0.17")

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

CALCULATED VERT. DEFL. (TL) = L/989 (0.34")

CSI: TC=0.97/1.00 (D-E:1), BC=0.51/1.00 (K-L:1), WB=0.58/1.00 (H-K:1), SI=0.34/1.00 (D-E:1)

COL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

MAX MIN MAX MIN MAX MIN

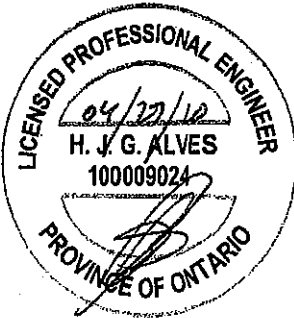
MT20 618 354 1687 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

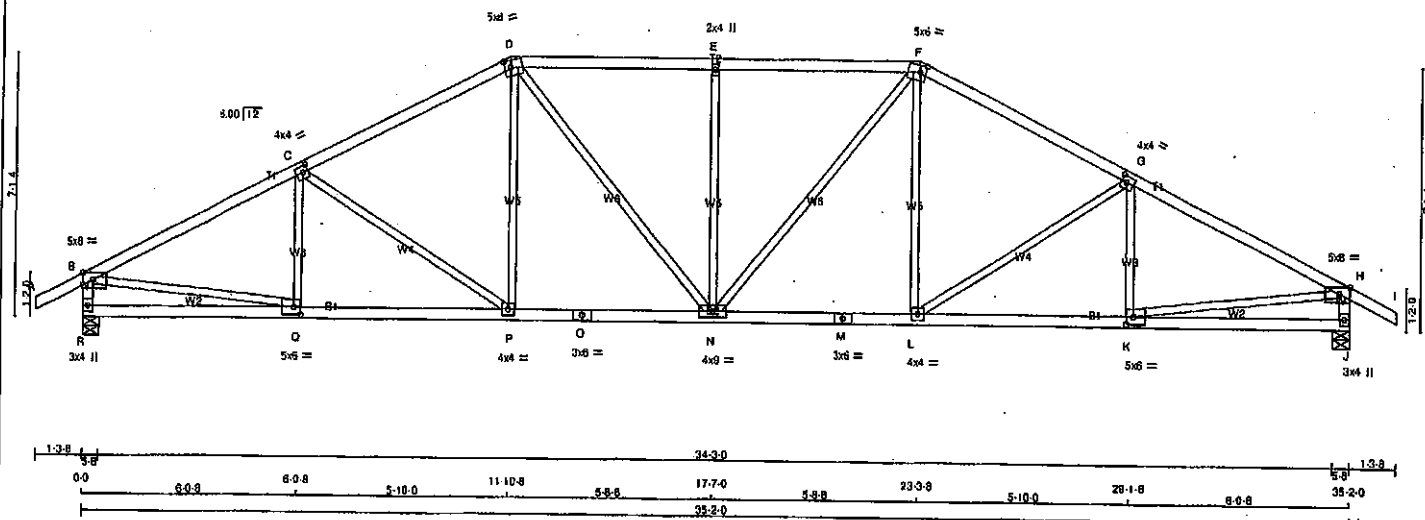
JSI GRIP = 0.87 (D) (INPUT = 0.90)

JSI METAL = 0.75 (O) (INPUT = 1.00)



Structural component only  
DWG# T-2007110

|                                                                        |                          |                      |                 |                                                                                    |          |
|------------------------------------------------------------------------|--------------------------|----------------------|-----------------|------------------------------------------------------------------------------------|----------|
| JOB NAME<br><b>408152</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                                        |                          |                      |                 | Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 11:29:37 2020 Page 1 |          |
| ID:17v7aG0E03cRU6X1jSkziWYK-MCzB_kw3N24LBWQcg8dPpQ2FRBXuIKPbIVT1ezNGOS |                          |                      |                 | Scale = 1:37.5                                                                     |          |



| LUMBER                |      |     |        |
|-----------------------|------|-----|--------|
| N. L. G. A. RULES     |      |     |        |
| CHORDS                | SIZE | DRY | LUMBER |
| A - D                 | 2x4  | DRY | No.2   |
| D - F                 | 2x4  | DRY | No.2   |
| F - I                 | 2x4  | DRY | No.2   |
| I - B                 | 2x4  | DRY | No.2   |
| 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 (tab/plate/inches) |        |        |     |     |           |
|---------------------------|--------|--------|-----|-----|-----------|
| JT                        | TYPE   | PLATES | W   | LEN | Y X       |
| B                         | TMVW-p | MT20   | 5.0 | 8.0 | Edge 3.50 |
| C                         | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 1.75 |
| D                         | TTWW-m | MT20   | 5.0 | 8.0 | 2.25 2.00 |
| E                         | TMVW-w | MT20   | 2.0 | 4.0 |           |
| F                         | TTWW-m | MT20   | 5.0 | 8.0 | 2.25 2.00 |
| G                         | TMVW-l | MT20   | 4.0 | 4.0 | 2.00 1.75 |
| H                         | TMVW-p | MT20   | 5.0 | 8.0 | Edge 3.50 |
| J                         | BMV1-p | MT20   | 3.0 | 4.0 |           |
| K                         | BMVW-l | MT20   | 5.0 | 8.0 | 2.50 2.25 |
| L                         | BMVW-l | MT20   | 4.0 | 4.0 |           |
| M                         | BS-l   | MT20   | 3.0 | 8.0 |           |
| N                         | BMVW-l | MT20   | 4.0 | 9.0 |           |
| O                         | BS-l   | MT20   | 3.0 | 8.0 |           |
| P                         | BMVW-l | MT20   | 4.0 | 4.0 |           |
| Q                         | BMVW-l | MT20   | 5.0 | 8.0 | 2.50 2.25 |
| R                         | BMV1-p | MT20   | 3.0 | 4.0 |           |

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

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

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

| UNFACTORED REACTIONS |          |         |                     |           |         |
|----------------------|----------|---------|---------------------|-----------|---------|
| 1ST LCASE            | MAX      | MIN     | COMPONENT REACTIONS |           |         |
| JT                   | COMBINED | SNOW    | LIVE                | PERM.LIVE | WIND    |
| R                    | 1457     | 989 / 0 | 0 / 0               | 0 / 0     | 488 / 0 |
| J                    | 1457     | 989 / 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 = 3.58 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

| LOADING               |               |             |            |       |       |       |               |          |            |     |       |
|-----------------------|---------------|-------------|------------|-------|-------|-------|---------------|----------|------------|-----|-------|
| TOTAL LOAD CASES: (4) |               |             |            |       |       |       |               |          |            |     |       |
| CHORDS                |               |             |            |       |       | WEBS  |               |          |            |     |       |
| MEMB.                 | MAX. FACTORED | FACTORED    | VERT. LOAD | LC1   | MAX   | MEMB. | MAX. FACTORED | FACTORED | VERT. LOAD | LC1 | MAX   |
|                       | (LBS)         | (PLF)       |            |       | (LBS) |       | (LBS)         | (PLF)    |            |     | (LBS) |
| FR-TO                 |               | FROM TO     |            |       |       | FR-TO |               | FROM TO  |            |     |       |
| A-B                   | 0 / 28        | -91.8 -91.8 | 0.12 (1)   | 10.00 |       | Q-C   | -255 / 12     | 0.07 (1) |            |     |       |
| B-C                   | -2889 / 0     | -91.8 -91.8 | 0.58 (1)   | 3.58  |       | C-P   | -435 / 0      | 0.42 (1) |            |     |       |
| C-D                   | -2539 / 0     | -91.8 -91.8 | 0.52 (1)   | 3.83  |       | P-D   | 0 / 350       | 0.08 (1) |            |     |       |
| D-E                   | -2559 / 0     | -91.8 -91.8 | 0.48 (1)   | 3.65  |       | D-N   | 0 / 482       | 0.11 (1) |            |     |       |
| E-F                   | -2559 / 0     | -91.8 -91.8 | 0.48 (1)   | 3.85  |       | N-E   | -641 / 0      | 0.56 (1) |            |     |       |
| F-G                   | -2539 / 0     | -91.8 -91.8 | 0.52 (1)   | 3.83  |       | N-F   | 0 / 482       | 0.11 (1) |            |     |       |
| G-H                   | -2889 / 0     | -91.8 -91.8 | 0.58 (1)   | 3.58  |       | L-F   | 0 / 350       | 0.08 (1) |            |     |       |
| H-I                   | 0 / 28        | -91.8 -91.8 | 0.12 (1)   | 10.00 |       | L-G   | -435 / 0      | 0.42 (1) |            |     |       |
| R-B                   | -2014 / 0     | 0.0 0.0     | 0.20 (1)   | 5.95  |       | K-G   | -255 / 12     | 0.07 (1) |            |     |       |
| J-H                   | -2014 / 0     | 0.0 0.0     | 0.20 (1)   | 5.95  |       | B-Q   | 0 / 2635      | 0.59 (1) |            |     |       |
|                       |               |             |            |       |       | K-H   | 0 / 2635      | 0.59 (1) |            |     |       |
| R-Q                   | 0 / 0         | -18.5 -18.5 | 0.15 (4)   | 10.00 |       |       |               |          |            |     |       |
| Q-P                   | 0 / 2609      | -18.5 -18.5 | 0.49 (1)   | 10.00 |       |       |               |          |            |     |       |
| P-O                   | 0 / 2249      | -18.5 -18.5 | 0.43 (1)   | 10.00 |       |       |               |          |            |     |       |
| O-N                   | 0 / 2249      | -18.5 -18.5 | 0.43 (1)   | 10.00 |       |       |               |          |            |     |       |
| N-M                   | 0 / 2249      | -18.5 -18.5 | 0.43 (1)   | 10.00 |       |       |               |          |            |     |       |
| M-L                   | 0 / 2249      | -18.5 -18.5 | 0.43 (1)   | 10.00 |       |       |               |          |            |     |       |
| L-K                   | 0 / 2609      | -18.5 -18.5 | 0.49 (1)   | 10.00 |       |       |               |          |            |     |       |
| K-J                   | 0 / 0         | -18.5 -18.5 | 0.15 (4)   | 10.00 |       |       |               |          |            |     |       |

TOTAL WEIGHT = 2 X 145 = 289 lb (M/F)

**DESIGN CRITERIA**

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

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 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 (1.17")  
CALCULATED VERT. DEFL.(LL) = L/899 (0.15")  
ALLOWABLE DEFL.(TL) = L/360 (1.17")  
CALCULATED VERT. DEFL.(TL) = L/899 (0.28")

CSI: TC=0.58/1.0 (G-H:1), BC=0.49/1.0 (K-L:1),  
WB=0.58/1.0 (B-Q:1), SSI=0.25/1.0 (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 618 554 1667 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

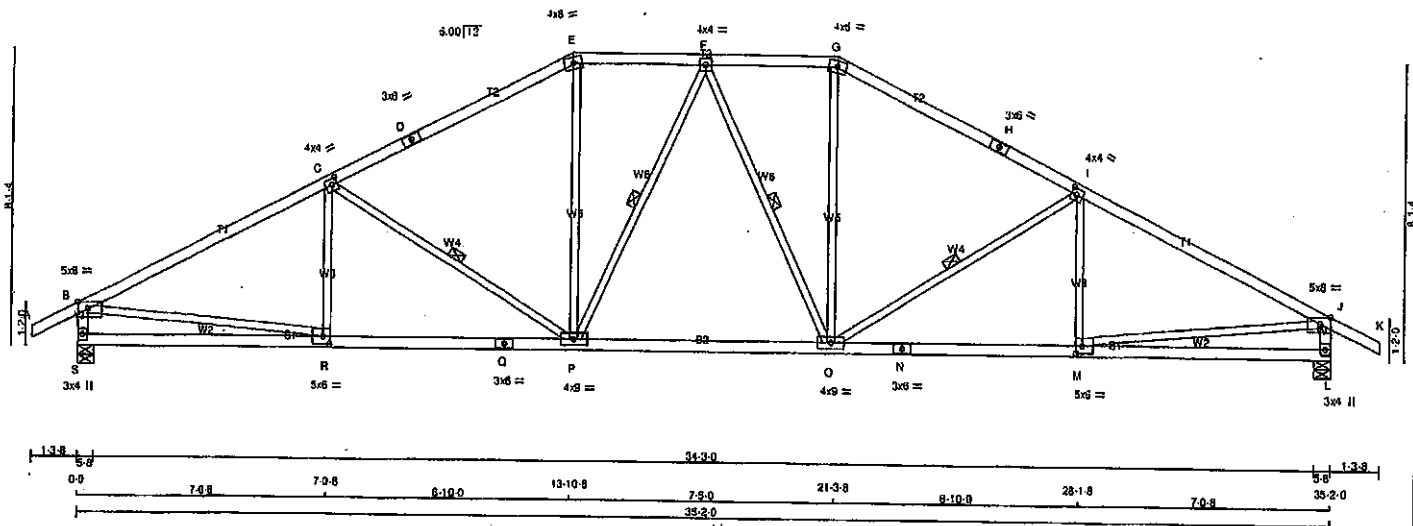
JSI METAL= 0.69 (M) (INPUT = 1.00)



Structural component only  
DWG# T-2007111

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408152</b>       | TRUSS NAME<br><b>T44</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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 ID: J7VF7aG0E03cRUj6X1jSkzIWYK-rOXZC4xiBMCCog7oEq9eMaMA6NWedKWYqYf1P42NCOR  
 JS 2 0 38 5 8 1 3 8  
 Scale = 1:50.0



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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 8.0 | Edge | 3.50 |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| 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 | 6.0 |      |      |
| I  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| J  | TMVW-p | MT20   | 5.0 | 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  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| O  | BMVW-t | MT20   | 4.0 | 9.0 |      |      |
| P  | BMVW-t | MT20   | 4.0 | 9.0 |      |      |
| Q  | BS-t   | MT20   | 3.0 | 6.0 |      |      |
| 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 |                         |                                 |           |          |       |       |  |
|----------|-------------------------|---------------------------------|-----------|----------|-------|-------|--|
| JT       | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |       |       |  |
|          | VERT                    | DOWN                            | HORZ      | UPLIFT   | IN-SX | IN-SX |  |
| S        | 2063                    | 0                               | 0         | 0        | 5-8   | 5-8   |  |
| L        | 2063                    | 0                               | 0         | 0        | 5-8   | 5-8   |  |

| UNFACTORED REACTIONS |                    |         |       |                     |       |         |       |
|----------------------|--------------------|---------|-------|---------------------|-------|---------|-------|
| JT                   | 1ST LCASE COMBINED | MAX     | MIN   | COMPONENT REACTIONS |       |         |       |
|                      |                    | SNOW    | LIVE  | PERM. LIVE          | WIND  | DEAD    | SOIL  |
| S                    | 1457               | 959 / 0 | 0 / 0 | 0 / 0               | 0 / 0 | 488 / 0 | 0 / 0 |
| L                    | 1457               | 959 / 0 | 0 / 0 | 0 / 0               | 0 / 0 | 488 / 0 | 0 / 0 |

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

#### BRACING

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

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                      |                           |                | WEBS                 |       |                      |              |
|--------|----------------------|---------------------------|----------------|----------------------|-------|----------------------|--------------|
| MEMB.  | FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 (LC)   | MAX. UNBRACED LENGTH | MEMB. | FACTORED FORCE (LBS) | MAX CS1 (LC) |
| FR-TO  |                      | FROM TO                   |                |                      | FR-TO |                      |              |
| A-B    | 0 / 28               | -91.8                     | -91.8 0.12 (1) | 10.00                | R-G   | -182 / 52            | 0.06 (1)     |
| B-C    | -2906 / 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 / 874              | 0.15 (1)     |
| D-E    | -2373 / 0            | -91.8                     | -91.8 0.72 (1) | 3.66                 | P-F   | -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    | -2100 / 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            | 0.06 (1)     |
| I-J    | -2906 / 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)   | 5.96                 |       |                      |              |
| L-J    | -2008 / 0            | 0.0                       | 0.0 0.20 (1)   | 5.96                 |       |                      |              |
| S-R    | 0 / 0                | -18.5                     | -18.5 0.20 (4) | 10.00                |       |                      |              |
| R-O    | 0 / 2630             | -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 / 2183             | -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. 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 CBC 2018, CBC 2012, ABC 2019  
 - PART 9 OF CBC 2012 (2019 AMENDMENT)  
 - CSA 088-09, 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 (0.14")  
 ALLOWABLE DEFL. (TL) = L/360 (1.17")  
 CALCULATED VERT. DEFL. (TL) = L/899 (0.30")

CS1: TC=0.83/1.00 (I-J:1), BC=0.52/1.00 (M-O:1),  
 WB=0.80/1.00 (B-R:1), SS1=0.28/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

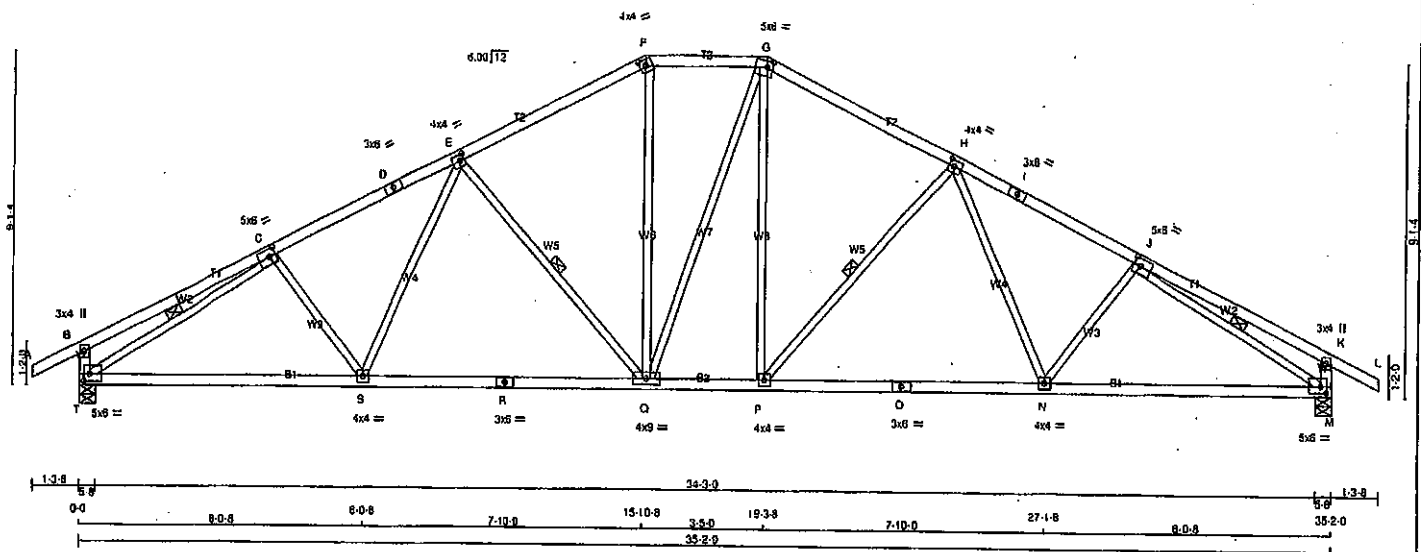
PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only  
 DWG# T-2007112





| LUMBER                |      |        |        |
|-----------------------|------|--------|--------|
| N. L. G. A. RULES     | SIZE | LUMBER | DESCR. |
| CHORDS                |      |        |        |
| 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   |
| T - 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   |
| EXCEPT                |      |        |        |
| DRY: SEASONED LUMBER. |      |        |        |

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |     | RECORD |       |
|----------|----------------|----------|------|------------------|------|-------|-----|--------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | UP    | BRG | BRG    | IN-SX |
| T        | 2083           | 0        | 0    | 2083             | 0    | 0     | 5-8 | 5-8    |       |
| M        | 2083           | 0        | 0    | 2083             | 0    | 0     | 5-8 | 5-8    |       |

| UNFACTORED REACTIONS |          | 1ST CASE |       | MAX/MIN COMPONENT REACTIONS |         |
|----------------------|----------|----------|-------|-----------------------------|---------|
| JT                   | COMBINED | SNOW     | LIVE  | PERM.LIVE                   | WIND    |
| T                    | 1457     | 969 / 0  | 0 / 0 | 0 / 0                       | 488 / 0 |
| M                    | 1457     | 969 / 0  | 0 / 0 | 0 / 0                       | 488 / 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 = 3.68 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           | WEBS                           |                                |
|--------|---------------------------|--------------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED HORZ. LOAD (LBS) |
| FR-TO  |                           |                                |                                |
| A-B    | 0 / 28                    | -91.8                          | -91.8 0.12 (1)                 |
| B-C    | 0 / 19                    | -91.8                          | -91.8 0.32 (1)                 |
| C-D    | -2758 / 0                 | -91.8                          | -91.8 0.40 (1)                 |
| D-E    | -2759 / 0                 | -91.8                          | -91.8 0.40 (1)                 |
| E-F    | -2167 / 0                 | -91.8                          | -91.8 0.36 (1)                 |
| F-G    | -1925 / 0                 | -91.8                          | -91.8 0.18 (1)                 |
| G-H    | -2166 / 0                 | -91.8                          | -91.8 0.36 (1)                 |
| H-I    | -2760 / 0                 | -91.8                          | -91.8 0.40 (1)                 |
| I-J    | -2760 / 0                 | -91.8                          | -91.8 0.40 (1)                 |
| J-K    | 0 / 19                    | -91.8                          | -91.8 0.32 (1)                 |
| K-L    | 0 / 28                    | -91.8                          | -91.8 0.12 (1)                 |
| T-B    | -326 / 0                  | 0.0                            | 0.0 0.03 (1)                   |
| M-K    | -326 / 0                  | 0.0                            | 0.0 0.03 (1)                   |
| T-S    | 0 / 2536                  | -18.5                          | -18.5 0.56 (1)                 |
| S-R    | 0 / 2362                  | -18.5                          | -18.5 0.53 (1)                 |
| R-Q    | 0 / 2362                  | -18.5                          | -18.5 0.53 (1)                 |
| Q-P    | 0 / 1924                  | -18.5                          | -18.5 0.40 (1)                 |
| P-O    | 0 / 2362                  | -18.5                          | -18.5 0.53 (1)                 |
| O-N    | 0 / 2362                  | -18.5                          | -18.5 0.53 (1)                 |
| N-M    | 0 / 2537                  | -18.5                          | -18.5 0.56 (1)                 |

TOTAL WEIGHT = 2 X 151 = 302 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 6.00/12

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2018, CBC 2012, ABC 2019  
 - PART 9 OF CBC 2012 (2018 AMENDMENT)  
 - CSA 088-08, CSA 088-14  
 - TPIC 2011, TPIC 2014

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

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

CSI: TC=0.40/1.00 (H-J:1), BC=0.56/1.00 (M-N:1),  
 WB=0.85/1.00 (J-M:1), SS=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1887 788 1987 1850

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (M) (INPUT = 0.90)  
 JSI METAL = 0.83 (O) (INPUT = 1.00)

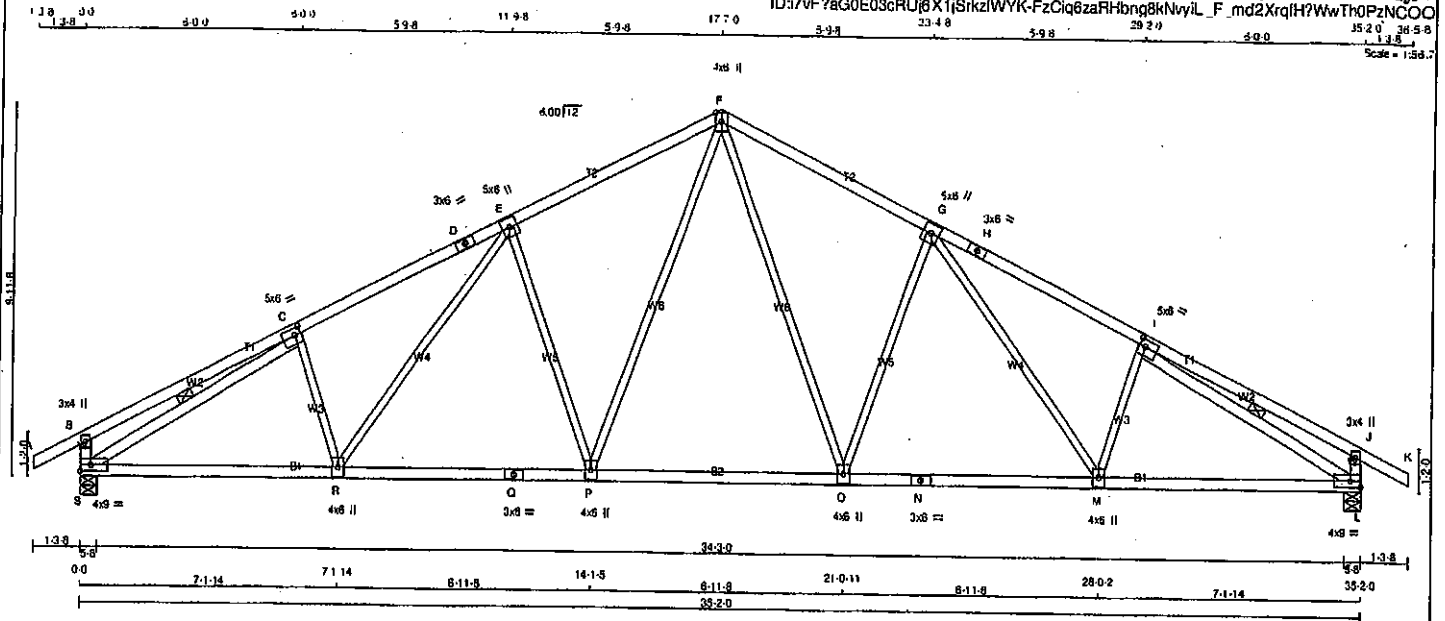


|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408152   | T46        | 6        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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ID:7vF7aG0E03cRUj8X1jSkzWYK-FzCiq6zaRHbng8kNvyL\_F.md2XrqIH7WwTh0PzNCOO



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

| PLATES (table is in inches) |        |        |     |              |
|-----------------------------|--------|--------|-----|--------------|
| JT                          | TYPE   | PLATES | W   | LEN Y X      |
| B                           | TMV+p  | MT20   | 3.0 | 4.0          |
| C                           | TMVW-1 | MT20   | 5.0 | 8.0 225 2.00 |
| D                           | TS-1   | MT20   | 3.0 | 8.0          |
| E                           | TMVW-1 | MT20   | 5.0 | 8.0          |
| F                           | TTWV+p | MT20   | 4.0 | 8.0 Edge     |
| G                           | TMVW-1 | MT20   | 5.0 | 8.0          |
| H                           | TS-1   | MT20   | 3.0 | 8.0          |
| I                           | TMVW-1 | MT20   | 5.0 | 8.0 225 2.00 |
| J                           | TMV+p  | MT20   | 3.0 | 4.0          |
| L                           | BMVW-1 | MT20   | 4.0 | 9.0 Edge     |
| M, O, P, R                  |        |        |     |              |
| M                           | BMVW-1 | MT20   | 4.0 | 8.0          |
| N                           | BS-1   | MT20   | 3.0 | 8.0          |
| Q                           | BS-1   | MT20   | 3.0 | 8.0          |
| S                           | BMVW-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

| BEARINGS |                | FACTORED       | MAXIMUM FACTORED | INPUT | REQ'D |
|----------|----------------|----------------|------------------|-------|-------|
| JT       | GROSS REACTION | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| S        | 2063 0         | 2063 0         | 0 0              | 5-8   | 5-8   |
| L        | 2063 0         | 2063 0         | 0 0              | 5-8   | 5-8   |

| UNFACTORED REACTIONS |              | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |
|----------------------|--------------|-----------|-------------------------------|
| JT                   | COMBINED     | SNOW      | LIVE                          |
| S                    | 1457 969 / 0 | 0 / 0     | 0 / 0                         |
| L                    | 1457 969 / 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 = 3.75 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

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

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| A-B    | 0 / 28                    | F-O   | 0 / 868                   |
| B-C    | 0 / 22                    | G-M   | 0 / 391                   |
| C-D    | -2808 / 0                 | M-I   | -192 / 18                 |
| D-E    | -2808 / 0                 | P-F   | 0 / 868                   |
| E-F    | -2322 / 0                 | R-E   | -728 / 0                  |
| F-G    | -2322 / 0                 | S-C   | -3064 / 0                 |
| G-H    | -2808 / 0                 | I-L   | -3064 / 0                 |
| H-I    | -2808 / 0                 |       |                           |
| I-J    | 0 / 22                    |       |                           |
| J-K    | 0 / 28                    |       |                           |
| S-B    | -344 / 0                  |       |                           |
| L-J    | -344 / 0                  |       |                           |
| S-R    | 0 / 2574                  |       |                           |
| R-O    | 0 / 2291                  |       |                           |
| Q-P    | 0 / 2291                  |       |                           |
| P-O    | 0 / 1762                  |       |                           |
| O-N    | 0 / 2291                  |       |                           |
| N-M    | 0 / 2291                  |       |                           |
| M-L    | 0 / 2574                  |       |                           |

#### 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 088-09, CSA 086-14  
- TPIC 2011, TPIC 2014

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

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

CSI: TC=0.49/1.00 (C-E:1), BC=0.53/1.00 (L-M:1), WB=0.72/1.00 (E-P:1), SS=0.22/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 818 354 1887 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

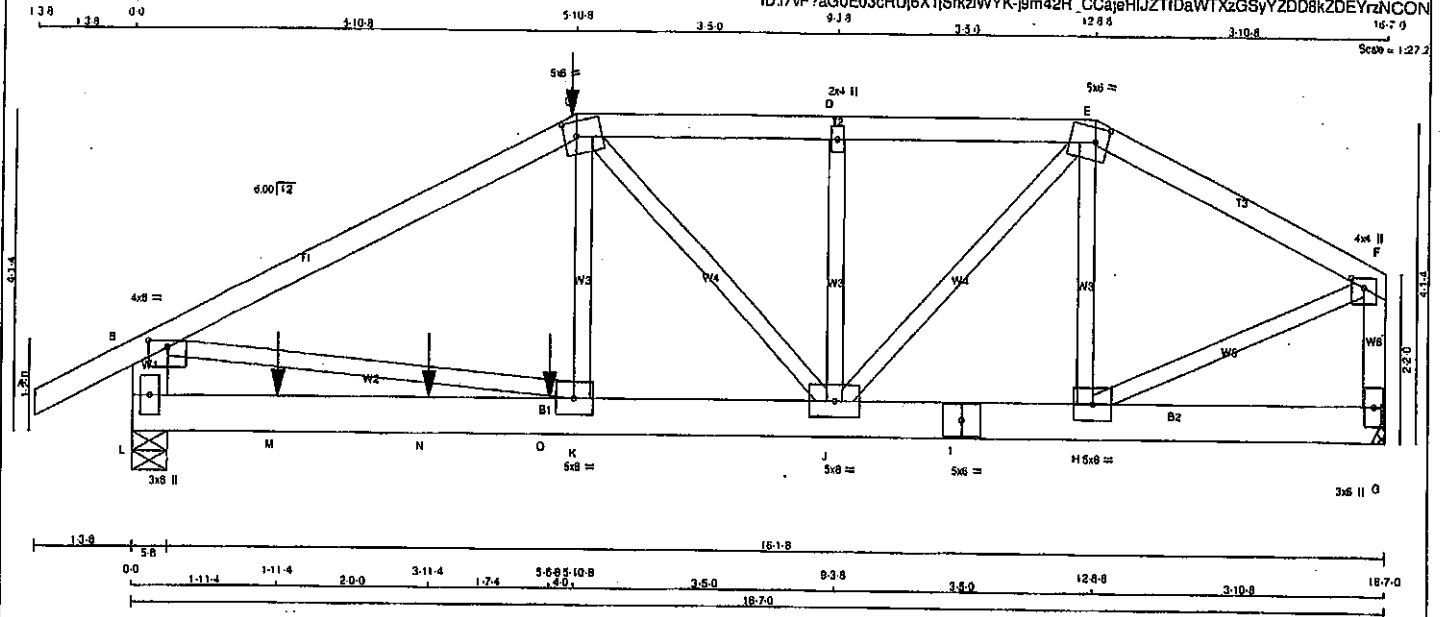
JSI GRIP= 0.87 (C) (INPUT = 0.90)  
JSI METAL= 0.77 (I) (INPUT = 1.00)



Structural component only  
DWG# T-2007114

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408152                          | T47        | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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TOTAL WEIGHT = 2 X 78 = 156 lb

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)  |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A-C                                      | 12                   | SIDE (61.0) |
| C-E                                      | 12                   | SIDE (61.0) |
| E-F                                      | 12                   | TOP         |
| G-F                                      | 12                   | TOP         |
| L-B                                      | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| L-I                                      | 12                   | SIDE (0.0)  |
| I-G                                      | 12                   | TOP         |
| 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 | RECORD     |
|----------|----------------|----------------|------------------|-------|------------|
| JT       | GROSS REACTION | GROSS REACTION | DOWN             | UP    | BRG        |
| L        | 2005           | 0              | 0                | 0     | 5-8        |
| G        | 1397           | 0              | 1397             | 0     | MECHANICAL |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G. MINIMUM BEARING LENGTH AT JOINT G = 2-0.

#### UNFACTORED REACTIONS

| 1ST CASE | MAX/MIN. COMPONENT REACTIONS |       |      |            |      |       |
|----------|------------------------------|-------|------|------------|------|-------|
| JT       | COMBINED                     | SNOW  | LIVE | PERM. LIVE | WIND | SOIL  |
| L        | 1412                         | 958/0 | 0/0  | 0/0        | 0/0  | 457/0 |
| G        | 985                          | 682/0 | 0/0  | 0/0        | 0/0  | 323/0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.18 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |                | WEBS  |             | FACTORED      |          |
|--------|-------------|------------------|----------------|-------|-------------|---------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC)  | MEMB. | FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |             | FROM TO          |                | FR-TO |             |               |          |
| A-B    | 0/28        | -91.8            | -91.8 0.07 (1) | 10.00 | K-C         | 0/543         | 0.12 (1) |
| B-C    | -2643/0     | -91.8            | -91.8 0.37 (1) | 5.18  | C-J         | -848/0        | 0.13 (1) |
| C-D    | -1951/0     | -91.8            | -91.8 0.10 (1) | 6.17  | J-D         | -371/0        | 0.05 (1) |
| D-E    | -1951/0     | -91.8            | -91.8 0.10 (1) | 6.17  | J-E         | 0/1047        | 0.13 (1) |
| E-F    | -1405/0     | -91.8            | -91.8 0.14 (1) | 8.25  | H-E         | -448/0        | 0.08 (1) |
| L-B    | -1885/0     | 0.0              | 0.0 0.07 (1)   | 7.81  | B-K         | 0/2382        | 0.29 (1) |
| G-F    | -1359/0     | 0.0              | 0.0 0.08 (1)   | 7.81  | H-F         | 0/1375        | 0.17 (1) |
| L-M    | 0/0         | -18.5            | -18.5 0.10 (1) | 10.00 |             |               |          |
| M-N    | 0/0         | -18.5            | -18.5 0.10 (1) | 10.00 |             |               |          |
| N-O    | 0/0         | -18.5            | -18.5 0.10 (1) | 10.00 |             |               |          |
| O-K    | 0/0         | -18.5            | -18.5 0.10 (1) | 10.00 |             |               |          |
| K-J    | 0/2389      | -18.5            | -18.5 0.24 (1) | 10.00 |             |               |          |
| J-I    | 0/1243      | -18.5            | -18.5 0.11 (1) | 10.00 |             |               |          |
| I-H    | 0/1243      | -18.5            | -18.5 0.11 (1) | 10.00 |             |               |          |
| H-G    | 0/0         | -18.5            | -18.5 0.02 (4) | 10.00 |             |               |          |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX.  | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|-------|------|-------|------|-------|
| C  | 5-10.8 | -320  | -320  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| M  | 1-11.4 | -25   | -25   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 3-11.4 | -25   | -25   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 5-6.8  | -1076 | -1076 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

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

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, 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

ALLOWABLE DEFL. (LL) = L/380 (0.55")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")  
ALLOWABLE DEFL. (TL) = L/380 (0.55")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CS: TC=0.37/1.00 (B-C:1), BC=0.24/1.00 (J-K:1),  
WB=0.29/1.00 (B-K:1), SS=0.37/1.00 (K-L: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 RIGHT HEEL ONLY

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

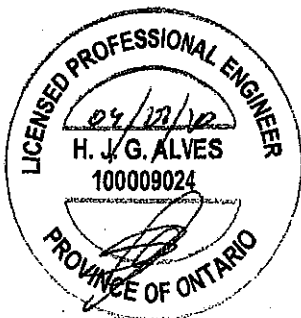
#### NAIL VALUES

PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 518 354 1867 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.80 (B) (INPUT = 0.90)  
JSI METAL = 0.32 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007115 1/1

CONTINUED ON PAGE 2

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 408152   | T47        | 1        | 2   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

| JT TYPE  | PLATES | W   | LEN | Y    | X    |
|----------|--------|-----|-----|------|------|
| B TMVW-p | MT20   | 4.0 | 6.0 | 1.00 | 3.00 |
| C TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| D TMVW-v | MT20   | 2.0 | 4.0 |      |      |
| E TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| F TMVW-p | MT20   | 4.0 | 4.0 | 1.50 | 2.00 |
| G BMV1-p | MT20   | 3.0 | 6.0 |      |      |
| H BMWW-l | MT20   | 5.0 | 6.0 |      |      |
| I BS-l   | MT20   | 5.0 | 6.0 |      |      |
| J BMWW-l | MT20   | 5.0 | 6.0 |      |      |
| K BMWW-l | MT20   | 5.0 | 6.0 |      |      |
| L BMV1-p | MT20   | 3.0 | 6.0 |      |      |



Structural component only  
DWG# T-2007115 *me*

Structural component only  
DWG# T-2007116



TOTAL WEIGHT = 43 lb

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |      |      |     |
|------------|------|------|-----|
| TOP CH.    | LL = | 25.8 | PSF |
|            | DL = | 0.0  | 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, NBC0 2010, NBC0 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

|                                                                                 |                           |                           |                            |                            |             |                           |                            |                            |  |
|---------------------------------------------------------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|-------------|---------------------------|----------------------------|----------------------------|--|
| <b>BRACING</b>                                                                  |                           |                           |                            |                            |             |                           |                            |                            |  |
| TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.09 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.      |                           |                           |                            |                            |             |                           |                            |                            |  |
| <b>LOADING</b>                                                                  |                           |                           |                            |                            |             |                           |                            |                            |  |
| TOTAL LOAD CASES: (4)                                                           |                           |                           |                            |                            |             |                           |                            |                            |  |
| <b>CHORDS</b>                                                                   |                           |                           |                            |                            | <b>WEBS</b> |                           |                            |                            |  |
| MEMB.                                                                           | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. UNBRACED LENGTH (PLF) | MAX. UNBRACED LENGTH (L/C) | MEMB.       | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (PLF) | MAX. UNBRACED LENGTH (L/C) |  |
| FR-TO                                                                           |                           | FROM TO                   |                            |                            | FR-TO       |                           |                            |                            |  |
| A-B                                                                             | 0 / 28                    | -91.8                     | -91.8                      | 0.13 (1)                   | 10.00       | I-C                       | -121 / 32                  | 0.02 (1)                   |  |
| B-C                                                                             | -837 / 0                  | -91.8                     | -91.8                      | 0.15 (1)                   | 8.25        | C-H                       | 0 / 2                      | 0.00 (4)                   |  |
| C-K                                                                             | -743 / 0                  | -91.8                     | -91.8                      | 0.50 (1)                   | 8.09        | H-D                       | -116 / 34                  | 0.02 (1)                   |  |
| K-L                                                                             | -743 / 0                  | -91.8                     | -91.8                      | 0.50 (1)                   | 8.09        | B-I                       | 0 / 778                    | 0.19 (1)                   |  |
| L-D                                                                             | -743 / 0                  | -91.8                     | -91.8                      | 0.50 (1)                   | 6.09        | H-E                       | 0 / 783                    | 0.19 (1)                   |  |
| D-E                                                                             | -844 / 0                  | -91.8                     | -91.8                      | 0.15 (1)                   | 8.25        |                           |                            |                            |  |
| E-F                                                                             | 0 / 28                    | -91.8                     | -91.8                      | 0.13 (1)                   | 10.00       |                           |                            |                            |  |
| J-B                                                                             | -848 / 0                  | 0.0                       | 0.0                        | 0.09 (1)                   | 7.81        |                           |                            |                            |  |
| G-E                                                                             | -844 / 0                  | 0.0                       | 0.0                        | 0.09 (1)                   | 7.81        |                           |                            |                            |  |
| J-M                                                                             | 0 / 0                     | -18.5                     | -18.5                      | 0.08 (4)                   | 10.00       |                           |                            |                            |  |
| M-I                                                                             | 0 / 0                     | -18.5                     | -18.5                      | 0.08 (4)                   | 10.00       |                           |                            |                            |  |
| I-N                                                                             | 0 / 742                   | -18.5                     | -18.5                      | 0.18 (1)                   | 10.00       |                           |                            |                            |  |
| N-O                                                                             | 0 / 742                   | -18.5                     | -18.5                      | 0.18 (1)                   | 10.00       |                           |                            |                            |  |
| O-H                                                                             | 0 / 742                   | -18.5                     | -18.5                      | 0.18 (1)                   | 10.00       |                           |                            |                            |  |
| H-P                                                                             | 0 / 0                     | -18.5                     | -18.5                      | 0.08 (4)                   | 10.00       |                           |                            |                            |  |
| P-G                                                                             | 0 / 0                     | -18.5                     | -18.5                      | 0.08 (4)                   | 10.00       |                           |                            |                            |  |

| FACTORED CONCENTRATED LOADS (LBS) |         |      |      |      |       |      |       |      |       |
|-----------------------------------|---------|------|------|------|-------|------|-------|------|-------|
| JT                                | LOC     | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONIN |
| C                                 | 2-10-8  | -119 | -119 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| D                                 | 8-0-8   | -119 | -119 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| H                                 | 7-11-12 | -5   | -5   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| I                                 | 2-11-4  | -5   | -5   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K                                 | 3-11-12 | -7   | -7   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L                                 | 5-11-12 | -7   | -7   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| M                                 | 2-0-12  | -5   | -5   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N                                 | 3-11-12 | -5   | -5   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O                                 | 5-11-12 | -5   | -5   | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P                                 | 8-10-4  | -5   | -5   | ---  | FRONT | VERT | TOTAL | ---  | C1    |

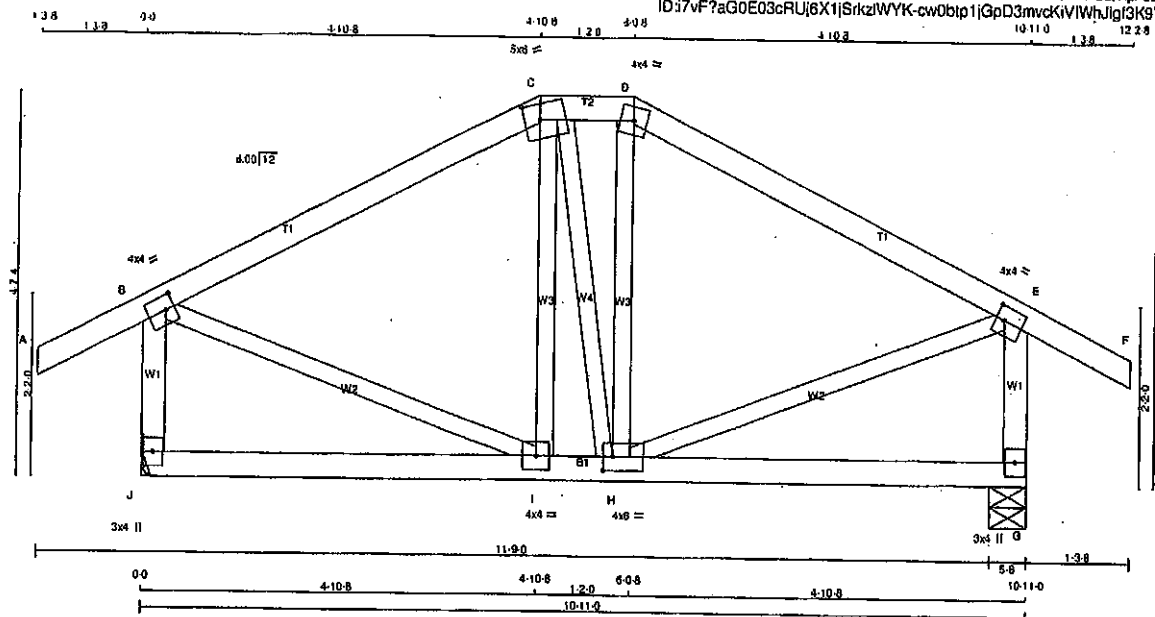
(55% OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN  
 LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF  
 LIVE LOAD  
  
 ALLOWABLE DEFL.(LL) = L/360 (0.36")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
 ALLOWABLE DEFL.(TL) = L/360 (0.36")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.03")  
  
 CSI: TC=0.50/1.00 (C-D-1), BC=0.18/1.00 (H-I-1),  
 WB=0.19/1.00 (E-H-1), SSI=0.21/1.00 (C-D-1)  
  
 DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00  
 COMP=1.00 SHEAR=1.00 TENS=1.00  
  
 COMPANION LIVE LOAD FACTOR = 1.00  
  
 TRUSS PLATE MANUFACTURER IS NOT  
 RESPONSIBLE FOR QUALITY CONTROL IN THE  
 TRUSS MANUFACTURING PLANT .  
  
 NAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION  
 (F'S) (P'L) (P'L)  
 MAX MIN MAX MIN MAX MIN  
 MT20 618 354 1667 768 1987 1656  
  
 PLATE PLACEMENT TOL = 0.250 inches  
  
 PLATE ROTATION TOL = 5.0 Deg.  
  
 JSI GRIP= 0.77 (E) (INPUT = 0.90 )  
 JSI METAL= 0.28 (E) (INPUT = 1.00 )



DRWG NO

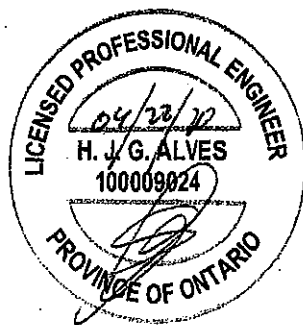
Version 8.310 S Oct 29 2019 MTek Industries, Inc. Sat Apr 25 11:29:46 2020 Page 1  
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Scale = 1:25

TOTAL WEIGHT  $\approx 52$  lb

| CHORDS |                                 |                                 |                     | WEBB                     |       |                                 |                 |
|--------|---------------------------------|---------------------------------|---------------------|--------------------------|-------|---------------------------------|-----------------|
| MEMB.  | MAX. FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | LC1 MAX<br>CSI (LC) | MAX.<br>UNBRAC<br>LENGTH | MEMB. | MAX. FACTORED<br>FORCE<br>(LBS) | MAX<br>CSI (LC) |
| FR-TO  |                                 | FROM TO                         |                     | FR-TO                    |       |                                 |                 |
| A-B    | 0/28                            | -91.8                           | -91.8 0.12 (1)      | 10.00                    | I-C   | -78/18                          | 0.02 (1)        |
| B-C    | -435/0                          | -91.8                           | -91.8 0.28 (1)      | 8.25                     | C-H   | -4/0                            | 0.00 (1)        |
| C-D    | -388/0                          | -91.8                           | -91.8 0.02 (1)      | 6.25                     | H-D   | -82/19                          | 0.03 (1)        |
| D-E    | -434/0                          | -91.8                           | -91.8 0.28 (1)      | 8.25                     | B-I   | 0/415                           | 0.09 (1)        |
| E-F    | 0/28                            | -91.8                           | -91.8 0.12 (1)      | 10.00                    | H-E   | 0/414                           | 0.09 (1)        |
| J-B    | -688/0                          | 0.0                             | 0.0 0.08 (1)        | 7.81                     |       |                                 |                 |
| G-E    | -888/0                          | 0.0                             | 0.0 0.08 (1)        | 7.81                     |       |                                 |                 |
| J-I    | 0/0                             | -18.5                           | -18.5 0.10 (4)      | 10.00                    |       |                                 |                 |
| I-H    | 0/387                           | -18.5                           | -18.5 0.14 (4)      | 10.00                    |       |                                 |                 |
| H-G    | 0/0                             | -18.5                           | -18.5 0.10 (4)      | 10.00                    |       |                                 |                 |

JSI GRIP= 0.68 (B) (INPUT = 0.90 )  
JSI METAL= 0.22 (B) (INPUT = 1.00 )



Structural component only  
DWG# T-2007119



DRWG NO.

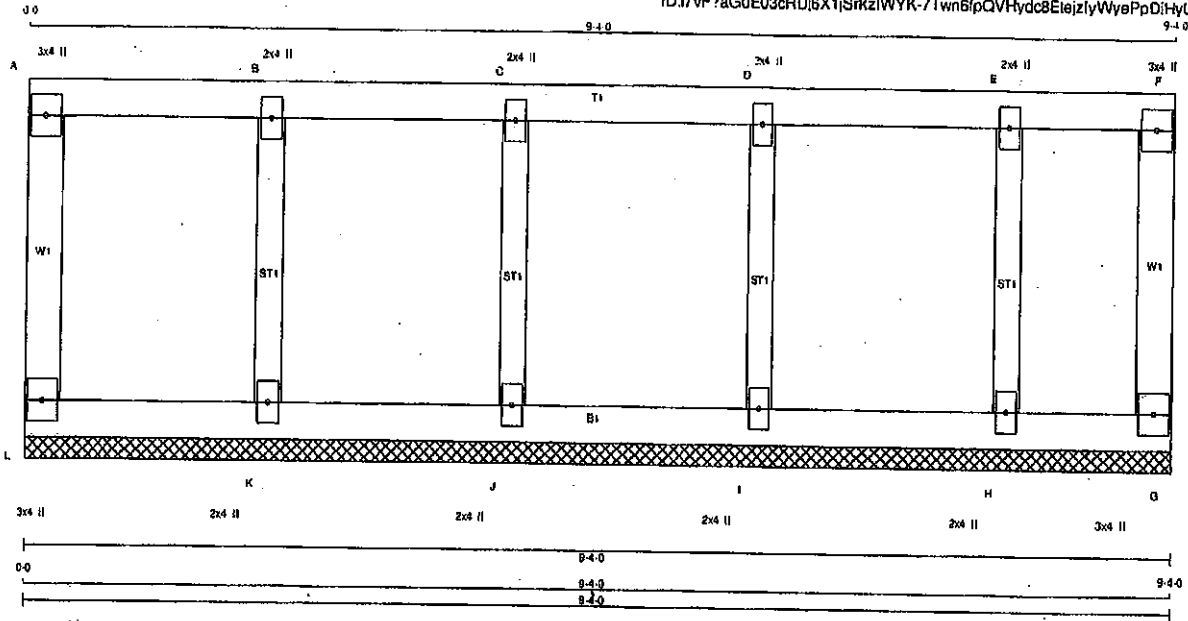
Scale = 1:100,000

TOTAL WEIGHT = 36 lb  
(M)(R)

Structural component only  
DWG# T-2007120

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>408152              | TRUSS NAME<br>G52 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                               |          |

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

| PLATES (Table 1a 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 BMV1+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) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |  |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |  |
| L-A    | -101 / 0                  | 0.0 0.0 0.03 (1)          | 7.81                      | K-B   | -245 / 0                  | 0.06 (1)                  |  |
| A-B    | -8 / 0                    | -114.3 -114.3 0.05 (1)    | 10.00                     | J-C   | -224 / 0                  | 0.05 (1)                  |  |
| B-C    | -8 / 0                    | -114.3 -114.3 0.05 (1)    | 10.00                     | I-D   | -237 / 0                  | 0.05 (1)                  |  |
| C-D    | -8 / 0                    | -114.3 -114.3 0.07 (1)    | 10.00                     | H-E   | -198 / 0                  | 0.04 (1)                  |  |
| D-E    | -8 / 0                    | -114.3 -114.3 0.07 (1)    | 10.00                     |       |                           |                           |  |
| E-F    | -8 / 0                    | -114.3 -114.3 0.05 (1)    | 10.00                     |       |                           |                           |  |
| G-F    | -84 / 0                   | 0.0 0.0 0.02 (1)          | 7.81                      |       |                           |                           |  |
| L-K    | 0 / 8                     | -18.5 -18.5 0.02 (4)      | 10.00                     |       |                           |                           |  |
| K-J    | 0 / 8                     | -18.5 -18.5 0.02 (4)      | 10.00                     |       |                           |                           |  |
| J-I    | 0 / 8                     | -18.5 -18.5 0.02 (4)      | 10.00                     |       |                           |                           |  |
| I-H    | 0 / 8                     | -18.5 -18.5 0.02 (4)      | 10.00                     |       |                           |                           |  |
| H-G    | 0 / 8                     | -18.5 -18.5 0.02 (1)      | 10.00                     |       |                           |                           |  |

#### 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. 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 CBC 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

CSI: TO=0.08/1.00 (A-B:1), BC=0.02/1.00 (K-L:4), WB=0.06/1.00 (B-K:1), SSI=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)   |               |
|             | MAX       | MIN   | MAX     | MIN           |
| MT20        | 618       | 354   | 1067    | 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



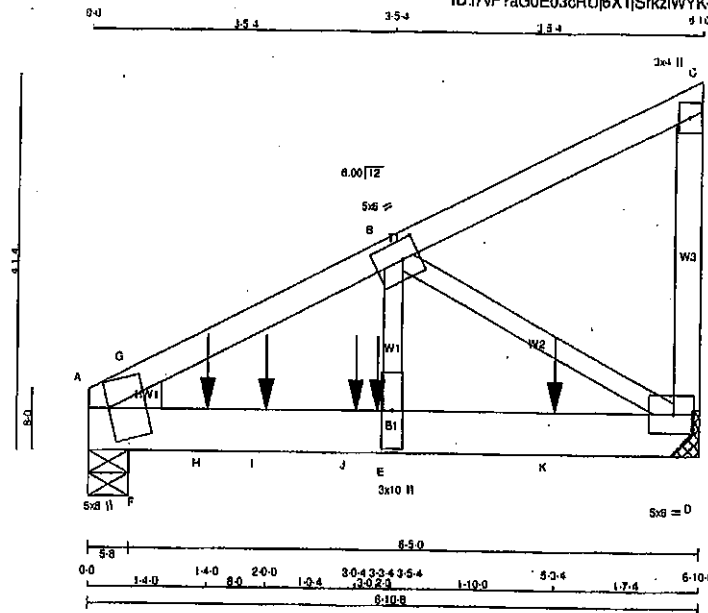
Structural component only  
 DWG# T-2007104



| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
|----------|------------|----------|-----|------------------|----------|
| 408152   | T54        | 1        | 2   | GREEN PARK HOMES |          |

Tamarack Roof Truss, Burlington

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| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - C                 | 2x4    | DRY  | No.2   |
| D - C                 | 2x4    | DRY  | No.2   |
| A - D                 | 2x6    | DRY  | No.2   |
| ALL WEBS              | 2x3    | DRY  | No.2   |
| DRY: SEASONED LUMBER. |        |      |        |

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |           |
| A - C                                    | 12                   | TOP       |
| C - D                                    | 12                   | TOP       |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| A - D                                    | 12                   | SIDE(0.0) |
| 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 TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN  | Y    | X    |
|-----------------------------|---------|--------|-----|------|------|------|
| A                           | TBMH1+m | MT20   | 5.0 | 8.0  | 3.50 |      |
| B                           | TBMW1-t | MT20   | 5.0 | 8.0  | 2.50 | 2.25 |
| C                           | TBMV-p  | MT20   | 3.0 | 4.0  |      |      |
| D                           | BMVW1-t | MT20   | 5.0 | 8.0  | 2.50 | 2.75 |
| E                           | BMW+w   | MT20   | 3.0 | 10.0 |      |      |

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

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT      |       | REQD  |       | HEEL |  |
|----------|------|-------------------------|------|---------------------------------|--------|------------|-------|-------|-------|------|--|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX      | IN-SX | HEEL  | WEDGE |      |  |
| A        | 3467 | 0                       | 3467 | 0                               | 0      | 5-8        | 5-8   | 2x4 L |       |      |  |
| D        | 2454 | 0                       | 2454 | 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 | SNOW  | LIVE  | PERM LIVE | WIND  | DEAD    | SOIL  |
|----|----------|------------------------------|-------|-------|-----------|-------|---------|-------|
| A  | 2449     | 1622 / 0                     | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 828 / 0 | 0 / 0 |
| D  | 1735     | 1144 / 0                     | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 591 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 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 (LBS) | LC1 (LBS) | MAX. UNBRAC | MEMB. | FORCE (LBS) | MAX. CS1 (LBS) |
| FR-TO  |             | FROM             | TO        | LENGTH      | FR-TO |             |                |
| A-G    | -4978 / 0   | -91.8            | -91.8     | 0.19 (1)    | 4.16  | E-B         | 0 / 3385       |
| G-B    | -3863 / 0   | -91.8            | -91.8     | 0.17 (1)    | 4.66  | B-D         | -4035 / 0      |
| B-C    | -13 / 0     | -91.8            | -91.8     | 0.07 (1)    | 6.25  | F-G         | 0 / 1740       |
| D-C    | -129 / 0    | 0.0              | 0.0       | 0.02 (1)    | 7.81  |             | 0.00 (1)       |
| A-F    | 0 / 3490    | -18.5            | -18.5     | 0.25 (1)    | 10.00 |             |                |
| F-H    | 0 / 3490    | -18.5            | -18.5     | 0.88 (1)    | 10.00 |             |                |
| H-I    | 0 / 3490    | -18.5            | -18.5     | 0.88 (1)    | 10.00 |             |                |
| I-J    | 0 / 3490    | -18.5            | -18.5     | 0.88 (1)    | 10.00 |             |                |
| J-E    | 0 / 3490    | -18.5            | -18.5     | 0.88 (1)    | 10.00 |             |                |
| E-K    | 0 / 3490    | -18.5            | -18.5     | 0.49 (1)    | 10.00 |             |                |
| K-D    | 0 / 3490    | -18.5            | -18.5     | 0.49 (1)    | 10.00 |             |                |

#### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1   | MAX.  | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|-------|-------|-------|------|-------|------|-------|------|-------|
| H  | 1-4-0 | -1378 | ---   | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| I  | 2-0-0 | -1000 | -1000 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| J  | 3-0-4 | -894  | -894  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| J  | 3-3-4 | -898  | -898  | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| K  | 5-3-4 | -898  | -898  | ---  | BACK  | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 30 = 60 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

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

ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 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 (0.23")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")  
ALLOWABLE DEFL. (TL) = L/360 (0.23")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CS1: TC=0.18/1.00 (A-G:1), BC=0.68/1.00 (E-F:1), WB=0.53/1.00 (B-D:1), SS=0.90/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PS)  | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 618       | 354   | 1667    |
|       |           | 788   | 1987    |

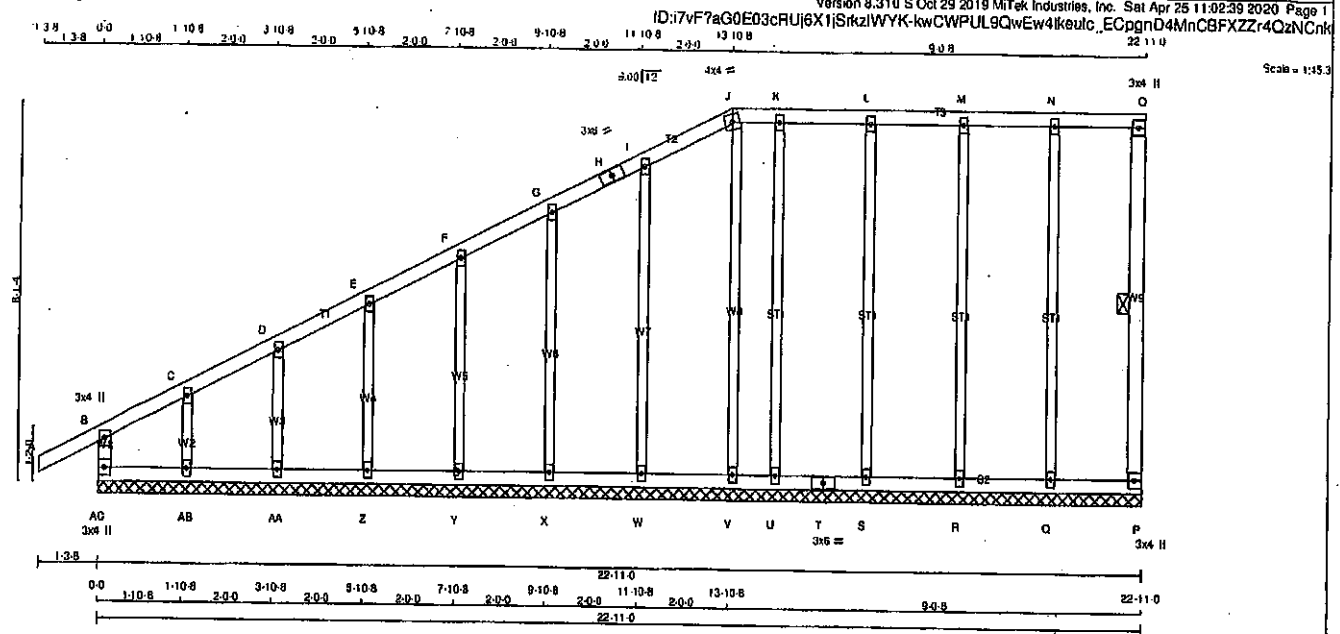
PLATE PLACEMENT TOL. = 0.280 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (B) (INPUT = 0.90)  
JSI METAL = 0.70 (A) (INPUT = 1.00)



Structural component only  
DWG# T-2007122



**LUMBER**

N. L. G. A. RULES

| CHORDS                | SIZE | DRY | LUMBER | DESCR. |
|-----------------------|------|-----|--------|--------|
| AC - B                | 2x4  | DRY | No.2   | SPF    |
| A - H                 | 2x4  | DRY | No.2   | SPF    |
| H - J                 | 2x4  | DRY | No.2   | SPF    |
| J - O                 | 2x4  | DRY | No.2   | SPF    |
| P - O                 | 2x4  | DRY | No.2   | SPF    |
| AC - T                | 2x4  | DRY | No.2   | SPF    |
| T - P                 | 2x4  | DRY | No.2   | SPF    |
| ALL WEBS              | 2x3  | DRY | No.2   | SPF    |
| ALL GABLE WEBS        | 2x3  | DRY | No.2   | SPF    |
| DRY: SEASONED LUMBER. |      |     |        |        |

GABLE STUDS SPACED AT 24-0 OC.

**PLATES (table in inches)**

| JT TYPE                           | PLATES | W   | LEN | Y | X |
|-----------------------------------|--------|-----|-----|---|---|
| B TMV+p                           | MT20   | 3.0 | 4.0 |   |   |
| C, D, E, F, G, I, K, L, M, N      | MT20   | 2.0 | 4.0 |   |   |
| H TS-1                            | MT20   | 3.0 | 8.0 |   |   |
| J TTW-m                           | MT20   | 4.0 | 4.0 |   |   |
| O TMV+p                           | MT20   | 3.0 | 4.0 |   |   |
| P BMV1+p                          | MT20   | 3.0 | 4.0 |   |   |
| Q, R, S, U, V, W, X, Y, Z, AA, AB | MT20   | 2.0 | 4.0 |   |   |
| T BS-1                            | MT20   | 3.0 | 8.0 |   |   |
| AC BMV1+p                         | MT20   | 3.0 | 4.0 |   |   |

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

**BEARINGS**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

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

| MEMB. | CHORDS                    |                       | WEBS                      |                           |
|-------|---------------------------|-----------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD CASE (PLF) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           |                       |                           |                           |
| AC-B  | -224 / 0                  | 0.0                   | 0.0                       | 0.02 (1)                  |
| A-B   | 0 / 28                    | -91.8                 | -91.8                     | 0.12 (1)                  |
| B-C   | -28 / 0                   | -91.8                 | -91.8                     | 0.04 (1)                  |
| C-D   | -19 / 0                   | -91.8                 | -91.8                     | 0.04 (1)                  |
| D-E   | -15 / 0                   | -91.8                 | -91.8                     | 0.04 (1)                  |
| E-F   | -11 / 0                   | -91.8                 | -91.8                     | 0.04 (1)                  |
| F-G   | -8 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| G-H   | -6 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| H-I   | -6 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| I-J   | -8 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| J-K   | -2 / 0                    | -91.8                 | -91.8                     | 0.03 (1)                  |
| K-L   | -2 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| L-M   | -2 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| M-N   | -2 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| N-O   | -2 / 0                    | -91.8                 | -91.8                     | 0.04 (1)                  |
| P-O   | -81 / 0                   | 0.0                   | 0.0                       | 0.01 (1)                  |
| FR-TO |                           |                       |                           |                           |
| AC-AB | 0 / 24                    | -18.5                 | -18.5                     | 0.02 (4)                  |
| AB-AA | 0 / 17                    | -18.5                 | -18.5                     | 0.02 (4)                  |
| AA-Z  | 0 / 13                    | -18.5                 | -18.5                     | 0.02 (4)                  |
| Z-Y   | 0 / 10                    | -18.5                 | -18.5                     | 0.02 (4)                  |
| Y-X   | 0 / 7                     | -18.5                 | -18.5                     | 0.01 (4)                  |
| X-W   | 0 / 5                     | -18.5                 | -18.5                     | 0.02 (4)                  |
| W-V   | 0 / 4                     | -18.5                 | -18.5                     | 0.02 (4)                  |
| V-U   | 0 / 2                     | -18.5                 | -18.5                     | 0.01 (4)                  |
| U-T   | 0 / 2                     | -18.5                 | -18.5                     | 0.02 (4)                  |
| T-S   | 0 / 2                     | -18.5                 | -18.5                     | 0.02 (4)                  |
| S-R   | 0 / 2                     | -18.5                 | -18.5                     | 0.02 (4)                  |
| R-Q   | 0 / 2                     | -18.5                 | -18.5                     | 0.02 (4)                  |
| Q-P   | 0 / 2                     | -18.5                 | -18.5                     | 0.02 (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**

**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 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (C-R:4), WB=0.25/1.00 (N-Q:1), SE=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

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

**NAIL VALUES**

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

MAX MIN MAX MIN MAX MIN

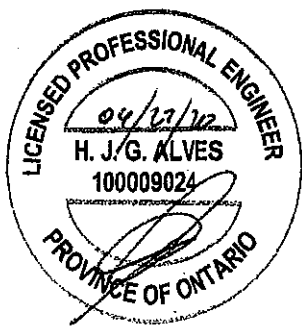
MT20 618 354 1867 788 1887 1658

PLATE PLACEMENT TOL. = 0.250 inches

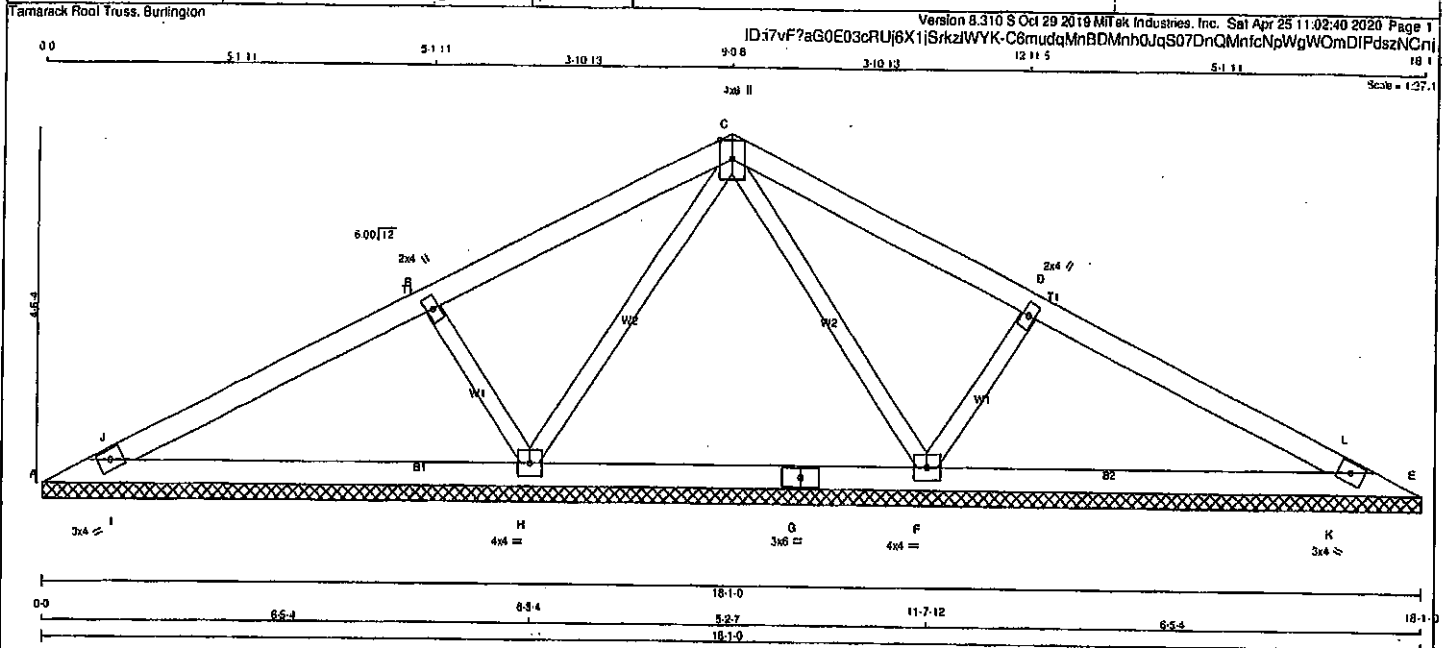
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (J) (INPUT = 0.90)

JSI METAL= 0.88 (J) (INPUT = 1.00)



|                                 |            |             |     |                                                                                    |          |
|---------------------------------|------------|-------------|-----|------------------------------------------------------------------------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.                                                                          | DRWG NO. |
| 408150                          | GP1        | 2           | 1   | GREEN PARK HOMES                                                                   |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     | Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 11:02:40 2020 Page 1 |          |



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

| PLATES (table in inches) |         |        |     |          |
|--------------------------|---------|--------|-----|----------|
| JT                       | TYPE    | PLATES | W   | LEN V X  |
| A                        | TBM1-h  | MT20   | 3.0 | 4.0      |
| B                        | TMW-w   | MT20   | 2.0 | 4.0      |
| C                        | TTWW-p  | MT20   | 4.0 | 6.0 Edge |
| D                        | TMW-w   | MT20   | 2.0 | 4.0      |
| E                        | TBM1-h  | MT20   | 3.0 | 4.0      |
| F                        | BMWW1-l | MT20   | 4.0 | 4.0      |
| G                        | BS-l    | MT20   | 3.0 | 6.0      |
| H                        | BMWW1-l | MT20   | 4.0 | 4.0      |

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

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |        | INPUT               |       | REQD |       |
|----------|------|----------------|------|------------------|--------|---------------------|-------|------|-------|
| JT       | VERT | GROSS REACTION | DOWN | HOZ              | UPLIFT | BRG                 | IN-SX | BRG  | IN-SX |
| A        | 134  | 0              | 134  | 0                | 0      | 18-1-0 (9-11-12)1-0 |       |      |       |
| E        | 134  | 0              | 134  | 0                | 0      | 18-1-0 (9-11-12)1-0 |       |      |       |
| F        | 863  | 0              | 863  | 0                | 0      | 18-1-0 (9-11-12)1-0 |       |      |       |
| H        | 863  | 0              | 863  | 0                | 0      | 18-1-0 (9-11-12)1-0 |       |      |       |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX/MIN COMPONENT REACTIONS |      |           |      |       |      |
|----------|----------|-----------------------------|------|-----------|------|-------|------|
| JT       | COMBINED | SNOW                        | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
| A        | 94       | 68/0                        | 0/0  | 0/0       | 0/0  | 28/0  | 0/0  |
| E        | 94       | 68/0                        | 0/0  | 0/0       | 0/0  | 28/0  | 0/0  |
| F        | 811      | 398/0                       | 0/0  | 0/0       | 0/0  | 218/0 | 0/0  |
| H        | 811      | 398/0                       | 0/0  | 0/0       | 0/0  | 218/0 | 0/0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED    |          | WEBS  |             | FACTORED   |          |
|--------|-------------|-------------|----------|-------|-------------|------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD  | LC1 MAX  | MEMB. | FORCE (LBS) | VERT. LOAD | LC1 MAX  |
| FR-TO  |             | FROM TO     | CSI (LC) | FR-TO |             | FROM TO    | CSI (LC) |
| A-J    | 0/240       | -91.8 -91.8 | 0.12 (1) | C-F   | -428/0      | 0.18 (1)   |          |
| J-B    | 0/301       | -91.8 -91.8 | 0.34 (1) | F-D   | -436/0      | 0.08 (1)   |          |
| B-C    | 0/503       | -91.8 -91.8 | 0.37 (1) | H-C   | -428/0      | 0.18 (1)   |          |
| C-D    | 0/503       | -91.8 -91.8 | 0.37 (1) | B-H   | -436/0      | 0.08 (1)   |          |
| D-L    | 0/301       | -91.8 -91.8 | 0.34 (1) | I-J   | -78/35      | 0.00 (1)   |          |
| L-E    | 0/240       | -91.8 -91.8 | 0.12 (1) | K-L   | -78/35      | 0.00 (1)   |          |
| A-I    | -255/0      | -18.5 -18.5 | 0.11 (1) |       |             |            |          |
| I-H    | -243/0      | -18.5 -18.5 | 0.13 (4) |       |             |            |          |
| H-G    | -246/0      | -18.5 -18.5 | 0.13 (4) |       |             |            |          |
| G-F    | -246/0      | -18.5 -18.5 | 0.13 (4) |       |             |            |          |
| F-K    | -243/0      | -18.5 -18.5 | 0.13 (4) |       |             |            |          |
| K-E    | -255/0      | -18.5 -18.5 | 0.11 (1) |       |             |            |          |

TOTAL WEIGHT = 2 X 54 = 107 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, NBCC 2010, NBCC 2015

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

(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=0.37/1.00 (C-D:1), BC=0.13/1.00 (F-K:4), WB=0.18/1.00 (C-H:1), SS=0.17/1.00 (D-L:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

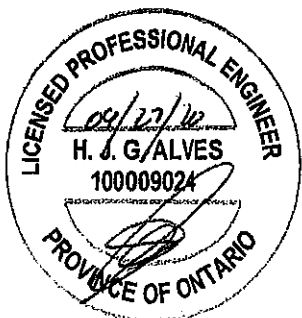
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION  
(PS) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1687 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (H) (INPUT = 0.80)  
JSI METAL= 0.15 (C) (INPUT = 1.00)

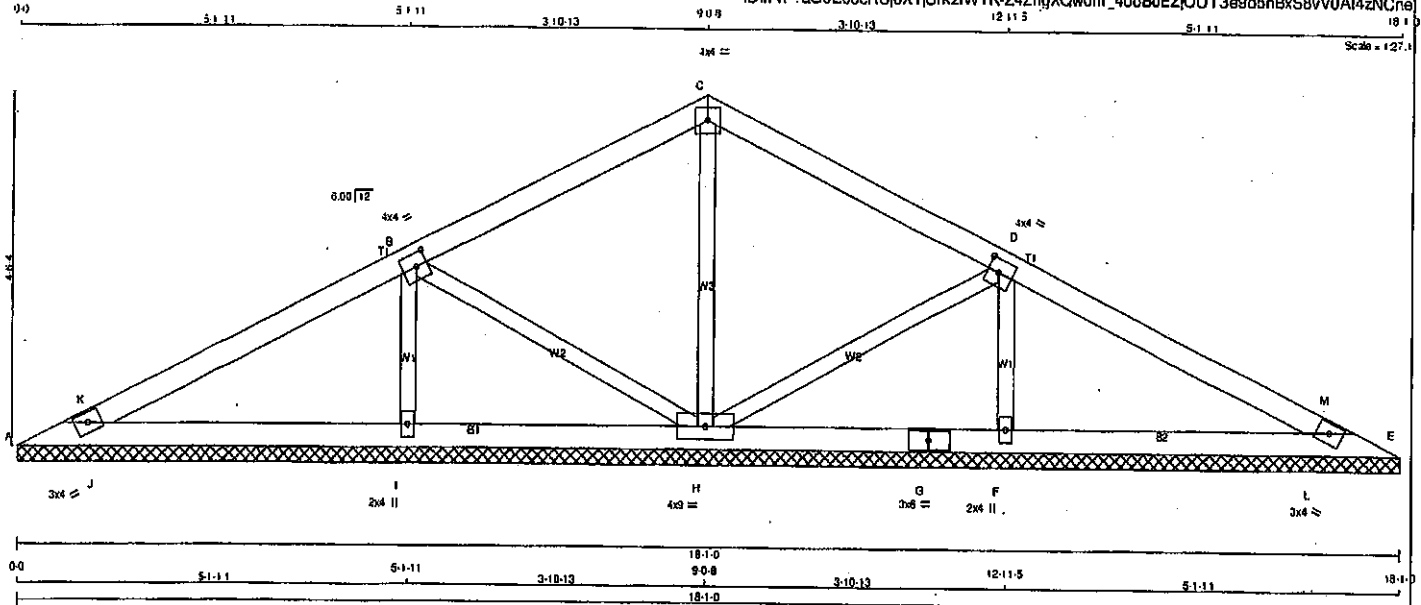


Structural component only  
DWG# T-2007058

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408150   | P1         | 17       | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

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

| PLATES (tabulae in inches) |         |        |     |     |           |
|----------------------------|---------|--------|-----|-----|-----------|
| JT                         | TYPE    | PLATES | W   | LEN | Y X       |
| A                          | TBM1-h  | MT20   | 3.0 | 4.0 |           |
| B                          | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 1.75 |
| C                          | TTW-p   | MT20   | 4.0 | 4.0 |           |
| D                          | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 1.75 |
| E                          | TBM1-h  | MT20   | 3.0 | 4.0 |           |
| F                          | BMW1-w  | MT20   | 2.0 | 4.0 |           |
| G                          | BS-t    | MT20   | 3.0 | 6.0 |           |
| H                          | BMWW1-t | MT20   | 4.0 | 9.0 |           |
| I                          | BMW1-w  | MT20   | 2.0 | 4.0 |           |

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

| REACTIONS |                |      |                  |    |                     |
|-----------|----------------|------|------------------|----|---------------------|
| JT        | FACTORED       |      | MAXIMUM FACTORED |    | REGRD               |
|           | GROSS REACTION | DOWN | GROSS REACTION   | UP |                     |
| A         | 124            | 0    | 124              | 0  | 18-1-0 (11-11-12) 0 |
| E         | 124            | 0    | 124              | 0  | 18-1-0 (11-11-12) 0 |
| H         | 415            | 0    | 415              | 0  | 18-1-0 (11-11-12) 0 |
| F         | 666            | 0    | 666              | 0  | 18-1-0 (11-11-12) 0 |
| I         | 666            | 0    | 666              | 0  | 18-1-0 (11-11-12) 0 |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX/MIN COMPONENT REACTIONS |      |           |      |       |      |
|----|-----------|-----------------------------|------|-----------|------|-------|------|
|    |           | SNOW                        | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
| A  | 87        | 59/0                        | 0/0  | 0/0       | 0/0  | 28/0  | 0/0  |
| E  | 87        | 59/0                        | 0/0  | 0/0       | 0/0  | 28/0  | 0/0  |
| H  | 293       | 192/0                       | 0/0  | 0/0       | 0/0  | 101/0 | 0/0  |
| F  | 471       | 307/0                       | 0/0  | 0/0       | 0/0  | 164/0 | 0/0  |
| I  | 471       | 307/0                       | 0/0  | 0/0       | 0/0  | 164/0 | 0/0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           | FROM TO                   | LENGTH                 | FR-TO |                           |                        |  |
| A-K    | 0/248                     | -91.8 -91.8 0.07 (1)      | 10.00                  | H-C   | -445/0                    | 0.13 (1)               |  |
| K-B    | 0/292                     | -91.8 -91.8 0.32 (1)      | 10.00                  | H-D   | 0/59                      | 0.01 (1)               |  |
| B-C    | 0/188                     | -91.8 -91.8 0.30 (1)      | 10.00                  | F-D   | -526/0                    | 0.08 (1)               |  |
| C-D    | 0/188                     | -91.8 -91.8 0.30 (1)      | 10.00                  | B-H   | 0/59                      | 0.01 (1)               |  |
| D-M    | 0/292                     | -91.8 -91.8 0.32 (1)      | 10.00                  | I-B   | -526/0                    | 0.08 (1)               |  |
| M-E    | 0/248                     | -91.8 -91.8 0.07 (1)      | 10.00                  | J-K   | -128/6                    | 0.00 (1)               |  |
|        |                           |                           |                        | L-M   | -128/6                    | 0.00 (1)               |  |
| A-J    | -256/0                    | -18.5 -18.5 0.14 (1)      | 8.25                   |       |                           |                        |  |
| J-I    | -240/0                    | -18.5 -18.5 0.14 (1)      | 8.25                   |       |                           |                        |  |
| I-H    | -240/0                    | -18.5 -18.5 0.11 (1)      | 8.25                   |       |                           |                        |  |
| H-G    | -240/0                    | -18.5 -18.5 0.11 (1)      | 8.25                   |       |                           |                        |  |
| G-F    | -240/0                    | -18.5 -18.5 0.11 (1)      | 8.25                   |       |                           |                        |  |
| F-L    | -240/0                    | -18.5 -18.5 0.14 (1)      | 8.25                   |       |                           |                        |  |
| L-E    | -256/0                    | -18.5 -18.5 0.14 (1)      | 8.25                   |       |                           |                        |  |

TOTAL WEIGHT = 17 X 55 = 943 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, 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

CSI: TC=0.32/1.00 (D-M:1), BC=0.14/1.00 (F-L:1), WB=0.13/1.00 (C-H:1), SS=0.17/1.00 (D-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
|         | (PS)      | (PL)     | (PL)      |
| MAX MIN | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20    | 618 354   | 1667 788 | 1987 1856 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (B) (INPUT = 0.90)

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



Structural component only  
DWG# T-2007062

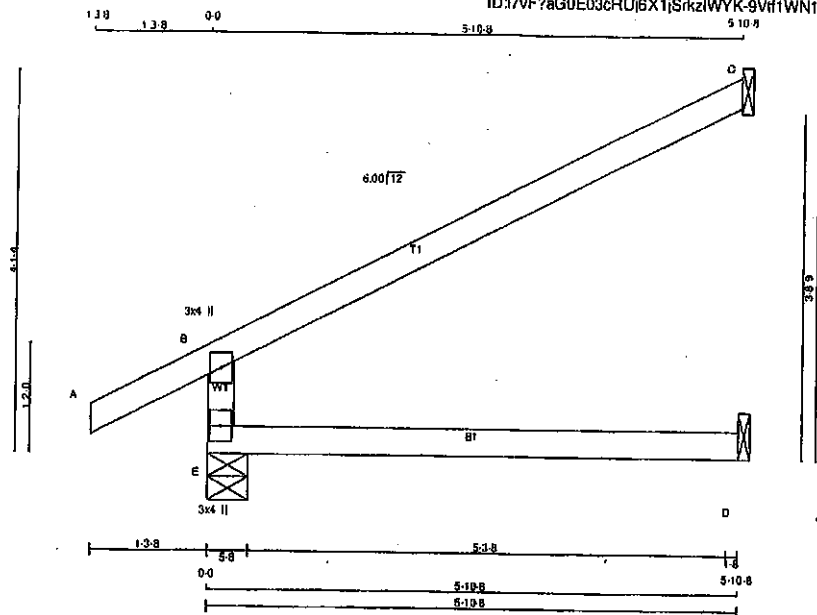
Structural component only  
DWG# T-2007080 .



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408150   | J1         | 21       | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/22.9

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

DRY: SEASONED LUMBER.

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

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

| BEARINGS |                            |      |                                    |      |        |              |             |
|----------|----------------------------|------|------------------------------------|------|--------|--------------|-------------|
| JT       | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      |        | INPUT<br>BRG | REQD<br>BRG |
|          | VERT                       | HORZ | DOWN                               | HORZ | UPLIFT | IN-SX        | IN-SX       |
| E        | 525                        | 0    | 525                                | 0    | 0      | 5-8          | 5-8         |
| C        | 202                        | 0    | 202                                | 0    | 0      | 1-8          | 1-8         |
| D        | 45                         | 0    | 50                                 | 0    | 0      | 1-8          | 1-8         |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE |         | MAX/MIN. COMPONENT REACTIONS |       | WIND  | DEAD    | SOIL  |
|----|-----------|---------|------------------------------|-------|-------|---------|-------|
|    | SNOW      | LIVE    | PERM. LIVE                   | WIND  |       |         |       |
| E  | 389       | 257 / 0 | 0 / 0                        | 0 / 0 | 0 / 0 | 111 / 0 | 0 / 0 |
| C  | 139       | 113 / 0 | 0 / 0                        | 0 / 0 | 0 / 0 | 26 / 0  | 0 / 0 |
| D  | 36        | 0 / 0   | 0 / 0                        | 0 / 0 | 0 / 0 | 36 / 0  | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS                    |                | FACTORED                  |                           | WEBS                      |                           |
|-------|---------------------------|----------------|---------------------------|---------------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD LC1 | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           |                |                           |                           |                           |                           |
| E-B   | -461 / 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)                  | 6.25                      |                           |
| E-D   | 0 / 0                     | -18.5          | -18.5                     | 0.13 (4)                  | 10.00                     |                           |

TOTAL WEIGHT = 21 X 17 = 353 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. CC

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 2018
- 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.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (LL) =  $L/999$  (0.00")  
ALLOWABLE DEFL. (TL) =  $L/360$  (0.20")  
CALCULATED VERT. DEFL. (TL) =  $L/999$  (0.03")

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

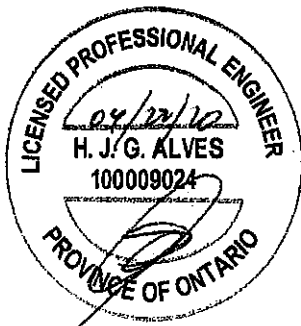
##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION            |
|-------|------------|-------|--------------------|
| (PSI) | (PLI)      | (PLI) |                    |
| MAX   | MIN        | MAX   | MIN                |
| MT20  | 618        | 354   | 1667 788 1987 1668 |

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)



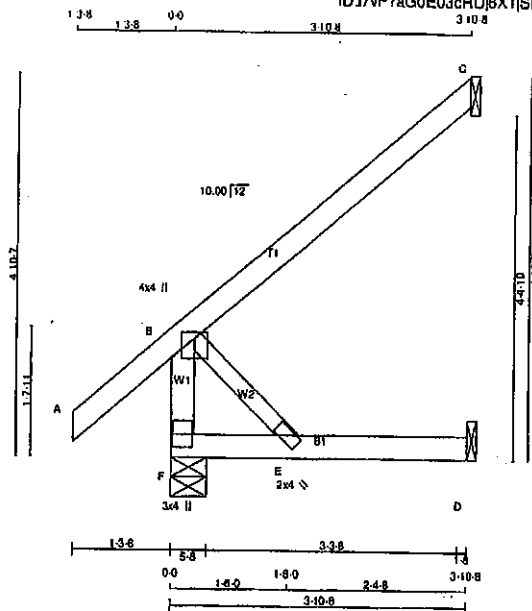
Structural component only  
DWG# T-2007059

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408150   | U2         | 1        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

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



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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| E                           | BMV+w  | MT20   | 2.0 | 4.0 |           |
| F                           | BMV1+p | MT20   | 3.0 | 4.0 |           |

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

| BEARINGS |                         |      |                                 |      |                 |                |
|----------|-------------------------|------|---------------------------------|------|-----------------|----------------|
| JT       | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|          | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| F        | 341                     | 0    | 341                             | 0    | 5-8             | 5-8            |
| C        | 178                     | 0    | 178                             | 0    | 1-8             | 1-8            |
| D        | 36                      | 0    | 40                              | 0    | 1-8             | 1-8            |

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

| UNFACTORED REACTIONS |           |       |                             |           |      |      |
|----------------------|-----------|-------|-----------------------------|-----------|------|------|
| JT                   | 1ST LOASE |       | MAX/MIN COMPONENT REACTIONS |           |      |      |
|                      | COMBINED  | SNOW  | LIVE                        | PERM.LIVE | WIND | DEAD |
| F                    | 239       | 170/0 | 0/0                         | 0/0       | 0/0  | 69/0 |
| C                    | 122       | 99/0  | 0/0                         | 0/0       | 0/0  | 23/0 |
| D                    | 29        | 0/0   | 0/0                         | 0/0       | 0/0  | 29/0 |

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

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

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

LOADING  
TOTAL LOAD CASES: (5)

| CHORDS |                            |                                 |                  | WEBS  |                            |                  |  |
|--------|----------------------------|---------------------------------|------------------|-------|----------------------------|------------------|--|
| MEMB.  | FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD<br>(PLF) | MAX.<br>CSI (LC) | MEMB. | FACTORED<br>FORCE<br>(LBS) | MAX.<br>CSI (LC) |  |
| FR-TO  |                            | FROM TO                         | UNBRAC<br>LENGTH | FR-TO |                            |                  |  |
| F-B    | -305/0                     | 0.0 0.0                         | 0.03 (1)         | 7.81  | B-E                        | 0/0 0.00 (1)     |  |
| A-B    | 0/41                       | -91.8 -91.8                     | 0.14 (5)         | 10.00 |                            |                  |  |
| B-C    | 0/0                        | -91.8 -91.8                     | 0.23 (1)         | 10.00 |                            |                  |  |
| F-E    | 0/0                        | -18.5 -18.5                     | 0.08 (4)         | 10.00 |                            |                  |  |
| E-D    | 0/0                        | -18.5 -18.5                     | 0.08 (4)         | 10.00 |                            |                  |  |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 15 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, NBC 2010, NBCG 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 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) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(LL) =  $L/889$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.18")  
CALCULATED VERT. DEFL.(TL) =  $L/889$  (0.01")

CSI: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E: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) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.50)  
JSI METAL = 0.06 (B) (INPUT = 1.00)

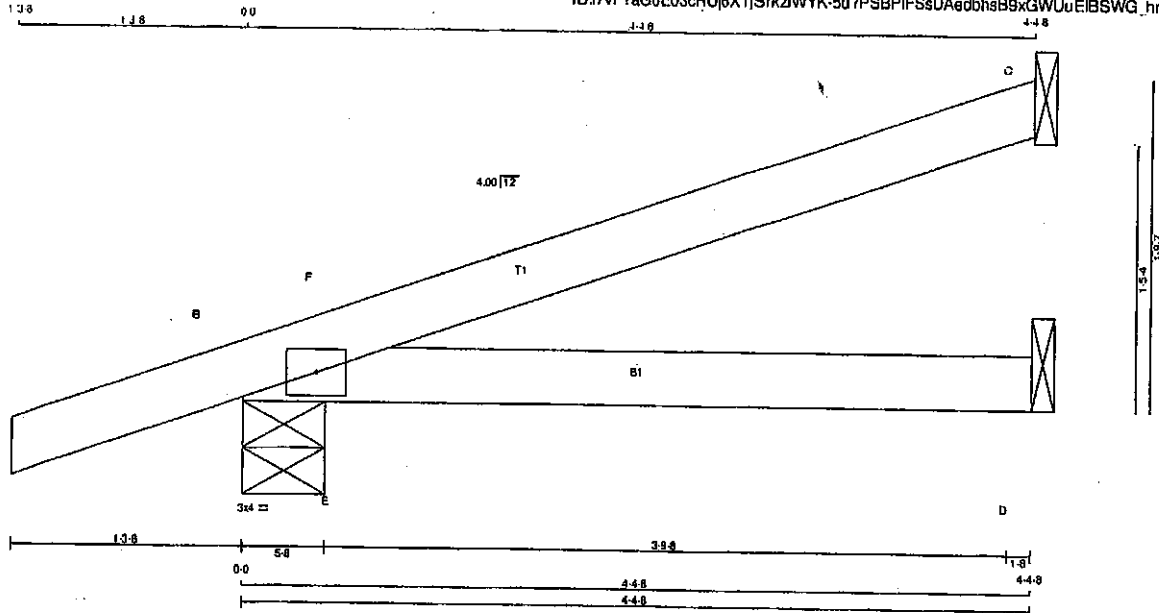


Structural component only  
DWG# T-2007080

|                           |                         |                      |                 |                                      |             |          |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>408150</b> | TRUSS NAME<br><b>J3</b> | QUANTITY<br><b>6</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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Scale = 1:11.5

| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| 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                        | TMB1-4 | 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 | JT               | DOWN | JT    | IN-SX | JT   | IN-SX |
| C              | 174  | 174              | 0    | 0     | 1-8   | 1-8  |       |
| B              | 384  | 384              | 0    | 0     | 5-8   | 5-8  |       |
| D              | 88   | 88               | 0    | 0     | 1-8   | 1-8  |       |

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

**UNFACTORED REACTIONS**

| 1ST LOSE |          | MAX/MIN. COMPONENT REACTIONS |      | PERM. LIVE |      | WIND |            | DEAD |      | SOIL |      |
|----------|----------|------------------------------|------|------------|------|------|------------|------|------|------|------|
| JT       | COMBINED | JT                           | SNOW | JT         | LIVE | JT   | PERM. LIVE | JT   | WIND | JT   | DEAD |
| C        | 120      | 93/0                         | 0/0  | 0/0        | 0/0  | 0/0  | 0/0        | 27/0 | 0/0  | 0/0  | 0/0  |
| B        | 255      | 180/0                        | 0/0  | 0/0        | 0/0  | 0/0  | 0/0        | 75/0 | 0/0  | 0/0  | 0/0  |
| D        | 50       | 19/0                         | 0/0  | 0/0        | 0/0  | 0/0  | 0/0        | 32/0 | 0/0  | 0/0  | 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     |       | FACTORED |          |
|--------|-------|------------|----------|----------|-------|----------|----------|
| MEMB.  | FORCE | VERT. LOAD | LC1 MAX  | MEMB.    | FORCE | MAX      | LC1      |
| FR-TO  | (LBS) | FROM TO    | CS1 (LC) | UNBRAC   | FR-TO | (LBS)    | CS1 (LC) |
| A-B    | 0/18  | -91.8      | -91.8    | 0.11 (1) | 10.00 | E-F      | -194/7   |
| B-F    | -14/0 | -91.8      | -91.8    | 0.05 (4) | 0.25  |          |          |
| F-C    | 0/2   | -91.8      | -91.8    | 0.22 (1) | 10.00 |          |          |
| B-E    | 0/0   | -18.5      | -18.5    | 0.17 (1) | 10.00 |          |          |
| E-D    | 0/0   | -18.5      | -18.5    | 0.17 (1) | 10.00 |          |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 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/D**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2010, 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 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: 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=0.18/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

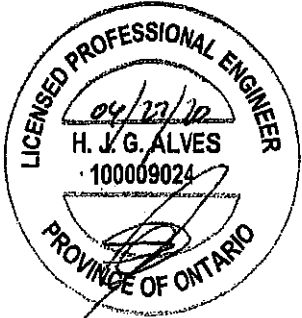
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

| NAIL VALUES |          |         |         |
|-------------|----------|---------|---------|
| PLATE       | GRP(DRY) | SHEAR   | SECTION |
| (PS)        | (PL)     | (PL)    | (PL)    |
| MAX MIN     | MAX MIN  | MAX MIN | MAX MIN |
| MT20        | 818      | 354     | 1667    |

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)

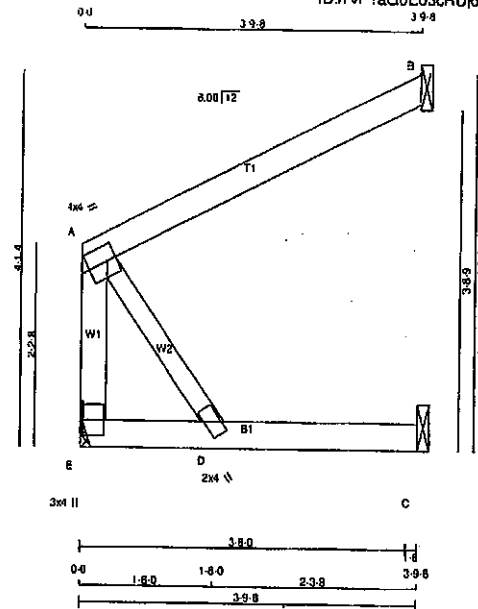


Structural component only  
DWG# T-2007061

| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|----------|------------|----------|-----|------------------|-------------|----------|
| 408152   | J40        | 4        | 1   | GREEN PARK HOMES |             |          |

Tamarack Roof Truss, Burlington

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Scale = 1:23.2

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

| PLATES (tablets in inches) |        |      |     |     |
|----------------------------|--------|------|-----|-----|
| JT TYPE                    | PLATES | W    | LEN | Y   |
| A                          | TMVW-t | MT20 | 4.0 | 4.0 |
| O                          | BMW-w  | MT20 | 2.0 | 4.0 |
| E                          | BMV1-p | MT20 | 3.0 | 4.0 |

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                |
| E  | 209                     | 0    | 209                             | 0    | 1-8             | 1-8            |
| B  | 174                     | 0    | 174                             | 0    | 1-8             | 1-8            |
| C  | 35                      | 0    | 39                              | 0    | 1-8             | 1-8            |

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

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) B, C

#### UNFACTORED REACTIONS

| JT | 1ST LOASE |      | MAX/MIN. COMPONENT REACTIONS |           |      |      |      |
|----|-----------|------|------------------------------|-----------|------|------|------|
|    | COMBINED  | SNOW | LIVE                         | PERM.LIVE | WIND | DEAD | SOIL |
| E  | 148       | 97/0 | 0/0                          | 0/0       | 0/0  | 51/0 | 0/0  |
| B  | 120       | 97/0 | 0/0                          | 0/0       | 0/0  | 23/0 | 0/0  |
| C  | 28        | 0/0  | 0/0                          | 0/0       | 0/0  | 28/0 | 0/0  |

#### 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)

| MEMB. | CHORDS                    |                | FACTORED                  |                           | WEBS                      |                           |
|-------|---------------------------|----------------|---------------------------|---------------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD LC1 | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           |                |                           |                           |                           |                           |
| E-A   | -174/0                    | 0.0            | 0.0                       | 0.02 (1)                  | 7.81                      | 0/0                       |
| A-B   | 0/0                       | -91.8          | -91.8                     | 0.22 (1)                  | 10.00                     | 0.00 (1)                  |
| E-D   | 0/0                       | -18.5          | -18.5                     | 0.07 (4)                  | 10.00                     |                           |
| D-C   | 0/0                       | -18.5          | -18.5                     | 0.08 (4)                  | 10.00                     |                           |

TOTAL WEIGHT = 4 X 13 = 52 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, NBCC 2015

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.22/1.00 (A-B:1), BC=0.08/1.00 (C-D:4), WB=0.00/1.00 (A-D:1), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

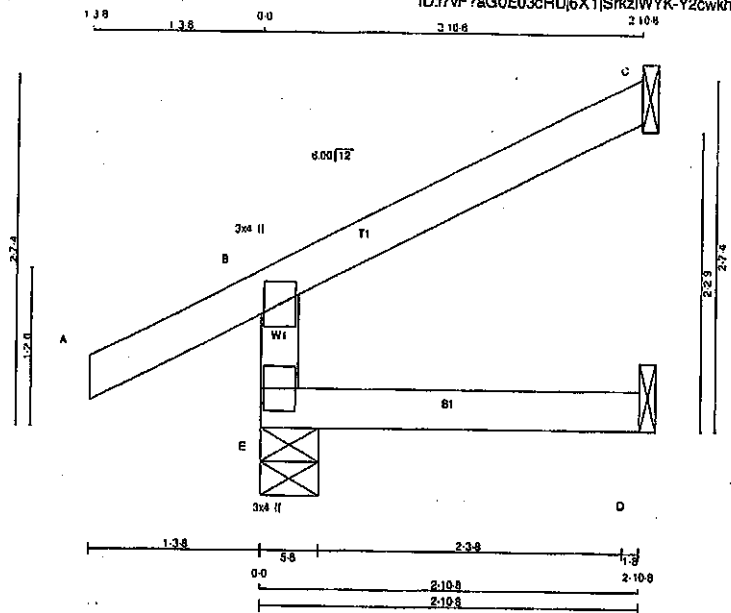
JSI GRIP = 0.11 (A) (INPUT = 0.90)  
JSI METAL = 0.03 (A) (INPUT = 1.00)



Structural component only  
DWG# T-2007105

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408152                          | J41        | 4           | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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TOTAL WEIGHT = 4 X 10 = 38 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 in inches) |        |      |     |     |
|--------------------------|--------|------|-----|-----|
| JT TYPE                  | PLATES | W    | LEN | Y X |
| B                        | TMV+p  | MT20 | 3.0 | 4.0 |
| E                        | BMV+p  | MT20 | 3.0 | 4.0 |

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

| BEARINGS       | FACTORED       | MAXIMUM FACTORED | INPUT  | REQD |
|----------------|----------------|------------------|--------|------|
| GROSS REACTION | GROSS REACTION | DOWN             | UPLIFT | BRG  |
| JT             | VERT           | HORZ             | DOWN   | HORZ |
| E              | 310            | 0                | 310    | 0    |
| C              | 99             | 0                | 99     | 0    |
| D              | 23             | 0                | 23     | 0    |

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

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX/MIN. COMPONENT REACTIONS |      |           |      |      |      |
|-----------|----------|------------------------------|------|-----------|------|------|------|
| JT        | COMBINED | SNOW                         | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| E         | 223      | 161/0                        | 0/0  | 0/0       | 0/0  | 62/0 | 0/0  |
| C         | 68       | 55/0                         | 0/0  | 0/0       | 0/0  | 13/0 | 0/0  |
| D         | 18       | 0/0                          | 0/0  | 0/0       | 0/0  | 18/0 | 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: (6)

| CHORDS |               |          |                | WEBS  |               |          |            |
|--------|---------------|----------|----------------|-------|---------------|----------|------------|
| MEMB.  | MAX. FACTORED | FACTORED | VERT. LOAD     | MEMB. | MAX. FACTORED | FACTORED | VERT. LOAD |
| (LBS)  | (LBS)         | (LBS)    | (LBS)          | (LBS) | (LBS)         | (LBS)    | (LBS)      |
| FR-TO  | FROM          | TO       | LENGTH         | FR-TO | FROM          | TO       | LENGTH     |
| E-B    | -289/0        | 0.0      | 0.0 0.02 (4)   | 7.81  |               |          |            |
| A-B    | 0/28          | -91.8    | -91.8 0.13 (5) | 10.00 |               |          |            |
| B-C    | -15/0         | -91.8    | -91.8 0.13 (1) | 6.25  |               |          |            |
| E-D    | 0/0           | -18.5    | -18.5 0.03 (4) | 10.00 |               |          |            |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBCG 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 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.13/1.00 (B-C:1), BC=0.03/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=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.

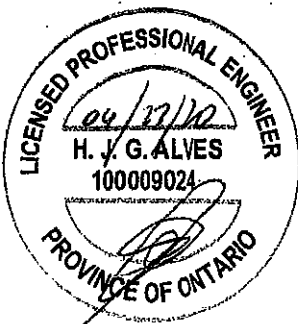
#### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR                      | SECTION |
|------------------|----------------------------|---------|
| (PSI)            | (PLI)                      | (PLI)   |
| MAX MIN          | MAX MIN                    | MAX MIN |
| MT20             | 618 354 1667 788 1987 1856 |         |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.12 (E) (INPUT = 0.90)  
JSI METAL = 0.08 (B) (INPUT = 1.00)

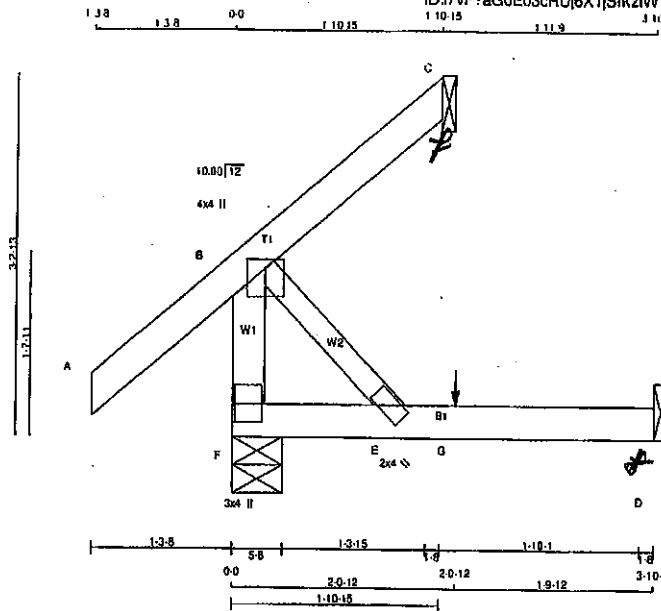


Structural component only  
DWG# T-2007106

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408150   | C1         | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/19.0

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

| DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |      |      |                         |                                 |      |      |        |       |        |
|-----------------------------------------------------------------------------------------------|------|------|-------------------------|---------------------------------|------|------|--------|-------|--------|
| BEARINGS                                                                                      |      |      |                         |                                 |      |      |        |       |        |
| JT                                                                                            | VERT | HORZ | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | DOWN | HORZ | UPLIFT | IN-SX | RECORD |
| F                                                                                             | 297  | 0    | 297                     | 0                               | 0    | 0    | 5.8    | 5.8   | IN-SX  |
| C                                                                                             | 42   | 0    | 42                      | 0                               | 0    | 36   | 1.8    | 1.8   |        |
| D                                                                                             | 36   | 0    | 40                      | 0                               | 0    | 0    | 1.8    | 1.8   |        |

TOTAL WEIGHT = 12 lb

| PLATES (table is in inches) |         |        |     |     |           |
|-----------------------------|---------|--------|-----|-----|-----------|
| JT                          | TYPE    | PLATES | W   | LEN | Y X       |
| B                           | TM/VW+p | MT20   | 4.0 | 4.0 | 1.00 2.00 |
| E                           | BMV+w   | MT20   | 2.0 | 4.0 |           |
| F                           | BMV1+p  | MT20   | 3.0 | 4.0 |           |

SEE MITEK STANDARD DETAIL B97781H FOR CONNECTION TO JOINT(S) C, D

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

| UNFACTORED REACTIONS |          |        |      |           |      |      |      |
|----------------------|----------|--------|------|-----------|------|------|------|
| JT                   | COMBINED | SNOW   | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| F                    | 208      | 145/0  | 0/0  | 0/0       | 0/0  | 63/0 | 0/0  |
| C                    | 29       | 23/-26 | 0/0  | 0/0       | 0/0  | 5/0  | 0/0  |
| D                    | 29       | 0/0    | 0/0  | 0/0       | 0/0  | 29/0 | 0/0  |

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

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

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

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

| 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 |                           |               |  |
| F-B    | -261/0                    | 0.0 0.0 0.03 (1)          | 7.81          | B-E   | 0/0                       | 0.00 (1)      |  |
| A-B    | 0/41                      | -91.8 -91.8 0.14 (5)      | 10.00         |       |                           |               |  |
| B-C    | -29/0                     | -91.8 -91.8 0.14 (5)      | 8.25          |       |                           |               |  |
| F-E    | 0/0                       | -18.5 -18.5 0.08 (4)      | 10.00         |       |                           |               |  |
| E-G    | 0/0                       | -18.5 -18.5 0.08 (4)      | 10.00         |       |                           |               |  |
| G-D    | 0/0                       | -18.5 -18.5 0.08 (4)      | 10.00         |       |                           |               |  |

| FACTORED CONCENTRATED LOADS (LBS) |        |     |     |      |      |      |       |
|-----------------------------------|--------|-----|-----|------|------|------|-------|
| JT                                | LOC.   | LC1 | MAX | MAX+ | FACE | DIR. | TYPE  |
| G                                 | 2-0-12 | 1   | 1   |      | BACK | VERT | TOTAL |

#### CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

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

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

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

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

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

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

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

CSI: TO=0.14/1.00 (A-B:5), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.08/1.00 (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                |
| MT20        | 618       | 354   | 1887 788 1987 1656 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90)  
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007055

|          |            |          |     |             |                  |         |
|----------|------------|----------|-----|-------------|------------------|---------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DWG NO. |
| 408150   | C2         | 1        | 1   | TRUSS DESC. |                  |         |

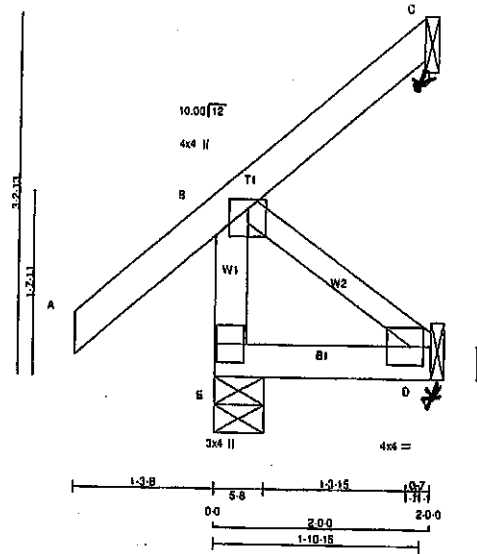
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Sat Apr 25 11:02:38 2020 Page 1

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1.38 1.38 0.0 1.10-15 1.10-15 2.00

Scale = 1:19.0



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

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

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT |       | RECORD |       |
|----------------|------|------------------|------|-------|-------|--------|-------|
| GROSS REACTION | DOWN | GROSS REACTION   | DOWN | BRG   | IN-SX | BRG    | IN-SX |
| JT             | 278  | 0                | 278  | 0     | 5-8   | 5-8    |       |
| E              | 42   | 0                | 42   | 0     | 1-8   | 1-8    |       |
| C              | 18   | 0                | 20   | 0     | 1-8   | 1-8    |       |

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

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 180 LBS. FACTORED UPLIFT

| UNFACTORED REACTIONS |          | MAX. MIN. COMPONENT REACTIONS |      |
|----------------------|----------|-------------------------------|------|
| JT                   | COMBINED | SNOW                          | LIVE |
| E                    | 184      | 145/0                         | 0/0  |
| C                    | 29       | 23/-26                        | 0/0  |
| D                    | 14       | 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: (5)

| CHORDS |                           | WEBS  |                           |
|--------|---------------------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FR-TO |                           |
| E-B    | -261/0                    | E-B   | 0/0                       |
| A-B    | 0/41                      | A-B   | 0/0                       |
| B-C    | -29/0                     | B-C   | 0/0                       |
| E-D    | 0/0                       | E-D   | 0/0                       |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2010, NBC 2012, ABC 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA 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 26.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.13/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SSI=0.03/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**  
PLATE GRIP (DRY) SHEAR SECTION  
(PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 788 1987 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.20 (B) (INPUT = 0.90)  
JSI METAL = 0.05 (B) (INPUT = 1.00)

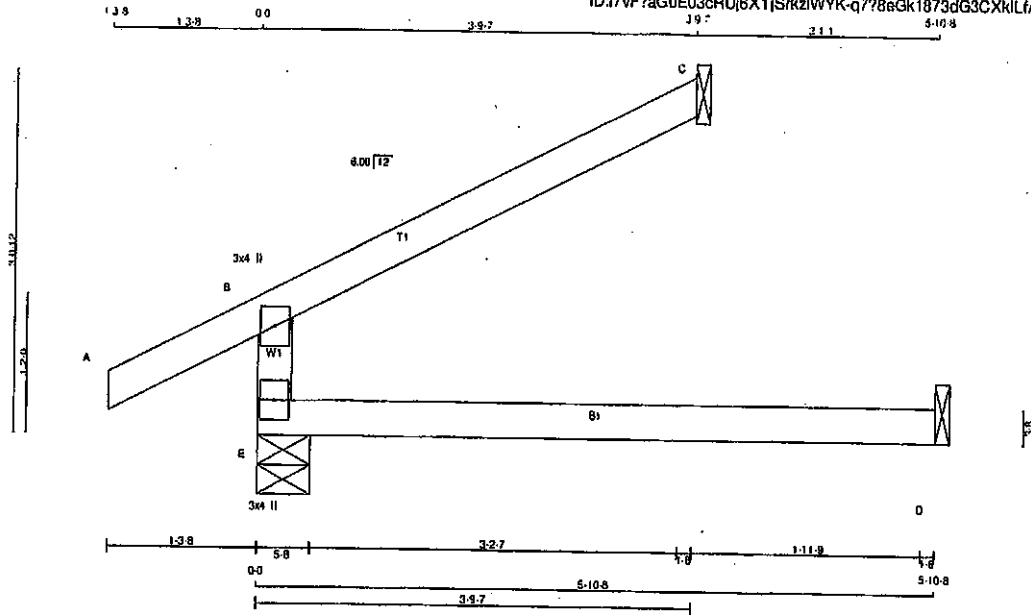


Structural component only  
DWG# T-2007056

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | TRUSS DESC. | DRWG NO. |
|---------------------------------|------------|----------|-----|------------------|-------------|----------|
| 408152                          | C40        | 4        | 1   | GREEN PARK HOMES |             |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |             |          |

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Scale = 1:17.9



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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |        |        |             |
|-----------------------------|--------|--------|-------------|
| JT                          | TYPE   | PLATES | W L E N 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQ'D BRG |
|----------|------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT    |
| E        | 405  | 0                       | 405                             | 0         | 0         |
| C        | 130  | 0                       | 130                             | 0         | 0         |
| D        | 45   | 0                       | 50                              | 0         | 0         |

SEE MITEK STANDARD DETAIL 897781H 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                    | 38       | 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 = 8.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS |         | MAX. FACTORED 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) |
|--------|---------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| MEMB.  | FR-TO   | FORCE (LBS)               | VERT. LOAD (PLF)          | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) |
| E-B    | 0 / 28  | -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 = 25.6 PSF  
DL = 6.0 PSF  
BOY 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 CBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-09, 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 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (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 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

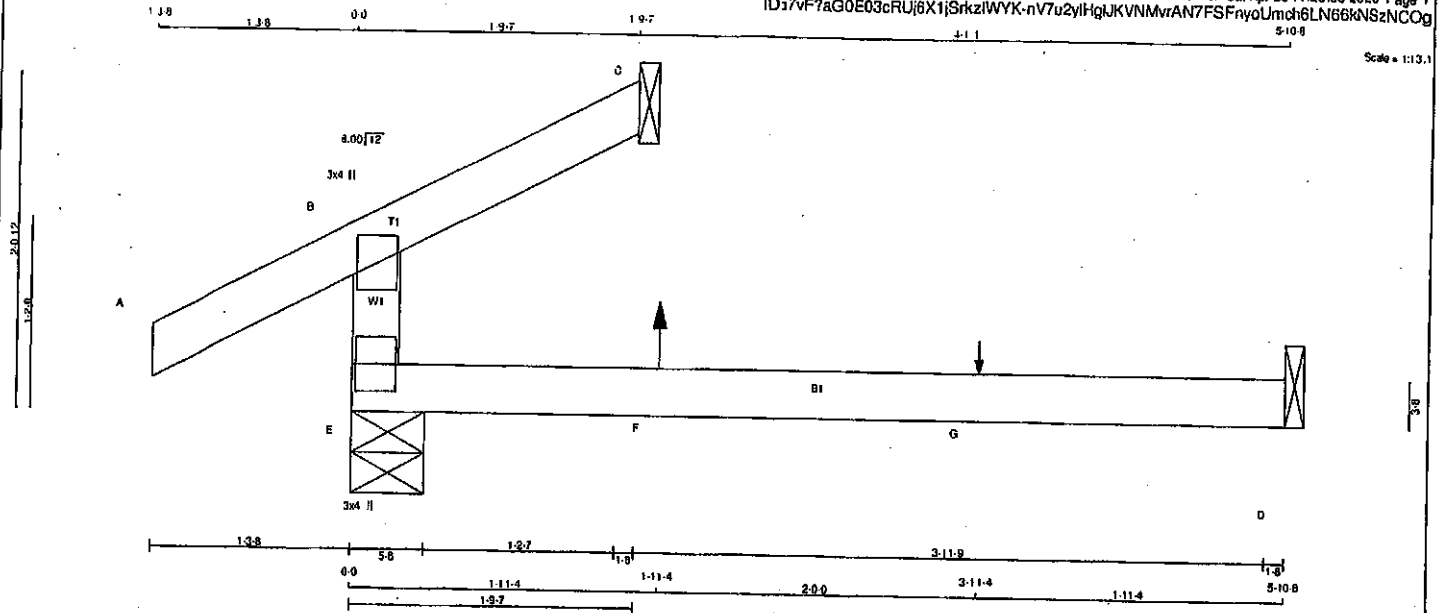


Structural component only  
DWG# T-2007098



|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>408152</b>       | TRUSS NAME<br><b>C41</b> | QUANTITY<br><b>4</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 | DRY  | LUMBER |
|-------------------|--------|------|------|--------|
| E - B             | 2x4    | DRY  | No.2 |        |
| A - C             | 2x4    | DRY  | No.2 |        |
| E - D             | 2x4    | DRY  | No.2 |        |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

| DESCR. | SPF  | SPF  | SPF |
|--------|------|------|-----|
| JT     | VERT | HORZ |     |
| E      | 284  | 0    |     |
| C      | 63   | 0    |     |
| D      | 44   | 0    |     |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE | SNOW  | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|-------|------|------------|------|------|------|
| E  | 200      | 137/0 | 0/0  | 0/0        | 0/0  | 82/0 | 0/0  |
| C  | 48       | 21/0  | 0/0  | 0/0        | 0/0  | 25/0 | 0/0  |
| D  | 35       | 0/-3  | 0/0  | 0/0        | 0/0  | 37/0 | 0/0  |

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

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

**LOADING**  
TOTAL LOAD CASES: (7)

| 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 |                           |                        |  |
| E-B    | -227/0                    | 0.0 0.0 0.11 (4)          | 7.81                   |       |                           |                        |  |
| A-B    | 0/28                      | -91.8 -91.8 0.12 (1)      | 10.00                  |       |                           |                        |  |
| B-C    | -9/9                      | -91.8 -91.8 0.08 (4)      | 10.00                  |       |                           |                        |  |
| E-F    | 0/0                       | -18.5 -18.5 0.14 (4)      | 10.00                  |       |                           |                        |  |
| F-G    | 0/0                       | -18.5 -18.5 0.14 (4)      | 10.00                  |       |                           |                        |  |
| G-D    | 0/0                       | -18.5 -18.5 0.14 (4)      | 10.00                  |       |                           |                        |  |

**FACTORED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|------|------|-------|------|-------|
| F  | 1-11.4 | 7   | 1    | 12   | BACK | VERT | TOTAL |      | C1    |
| G  | 3-11.4 | 1   | 1    |      | BACK | VERT | TOTAL |      | C1    |

**CONNECTION REQUIREMENTS**

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

TOTAL WEIGHT = 4 X 12 = 48 LB (M)

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 25.8 PSF  
DL = 0.0 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, NBC2010, NBC2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-08, 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 (0.20")  
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=0.98 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

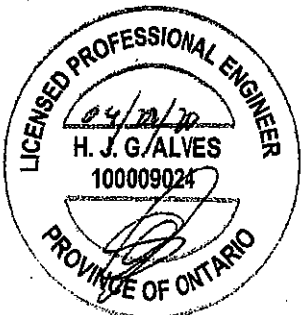
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
PLATE GRIP(DRY) SHEAR SECTION  
(PSI) (PL) (PL)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1667 798 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)  
JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only.  
DWG# T-2007099

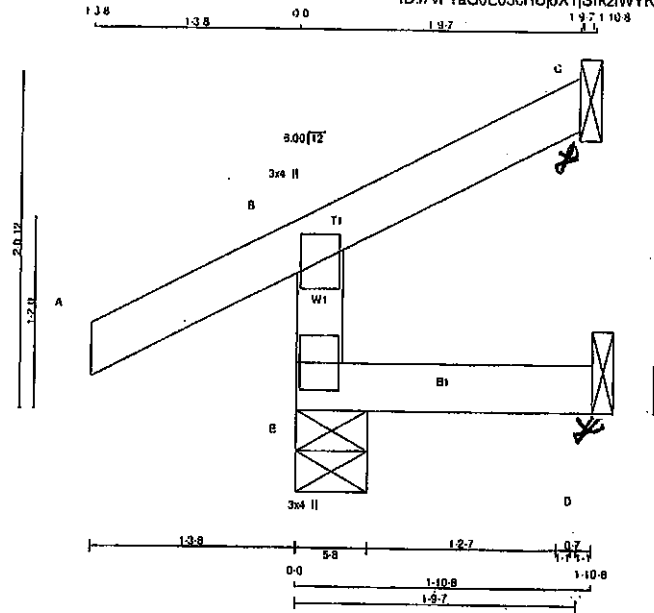
JSI GRIP= 0.14 (E) (INPUT = 0.90 )  
JSI METAL= 0.09 (B) (INPUT = 1.00 )

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408152   | C43        | 4        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1/32"



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

ORY: SEASONED LUMBER.

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

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

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

SEE MITEK STANDARD DETAIL B97791 H FOR CONNECTION TO JOINT(S) C, D

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

| UNFACTORED REACTIONS |          |                              |      |
|----------------------|----------|------------------------------|------|
| JT                   | 1ST CASE | MAX/MIN. COMPONENT REACTIONS |      |
|                      |          | SNOW                         | LIVE |
| E                    | 188      | 141/0                        | 0/0  |
| C                    | 31       | 24/-18                       | 0/0  |
| D                    | 7        | 0/-8                         | 0/0  |

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

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

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

LOADING

TOTAL LOAD CASES: (5)

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 7 = 28 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, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),  
WB=0.00/1.00 (n/a:0), SSI=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.

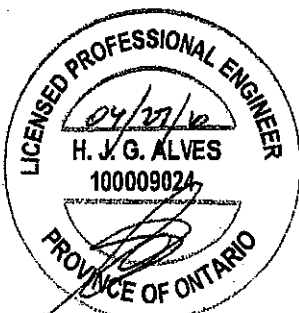
NAIL VALUES

| PLATE GRIP(ORY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MAX             | MIN         | MAX           |
| MT20            | 618         | 354           |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

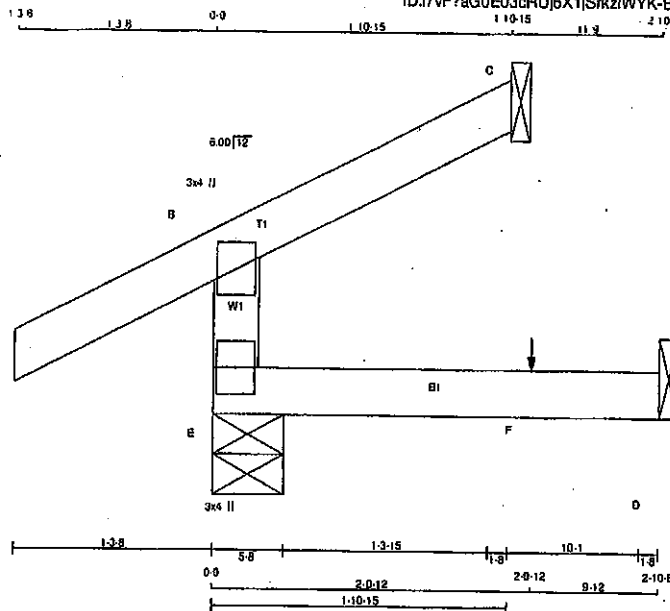
JSI GRIP = 0.10 (E) (INPUT = 0.30)  
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007101

|                                 |            |             |     |                  |          |
|---------------------------------|------------|-------------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.        | DRWG NO. |
| 408152                          | C44        | 2           | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                  |          |

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ID:7vF?aG0E03cRUj8X1SrkziWYK-B4o1hzoAzgivMq5UXixqt5tH1?X4p2sn34KO\_nzNCOD



Scale = 1:12.4

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

DRY: SEASONED LUMBER.

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

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| E  | 264                     | 0                               | 264       | 0        |
| C  | 66                      | 0                               | 66        | 0        |
| D  | 23                      | 0                               | 23        | 0        |

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

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|------------------------------|-------|-------|------------|-------|--------|-------|
| E  | 185      | 130 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 55 / 0 | 0 / 0 |
| C  | 48       | 37 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 9 / 0  | 0 / 0 |
| D  | 18       | 0 / 0                        | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 18 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

| CHORDS |                           |                           |                            | WEBS  |                           |                            |                       |
|--------|---------------------------|---------------------------|----------------------------|-------|---------------------------|----------------------------|-----------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED LC1 MAX (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED LC1 MAX (LC) | UNBRACED LENGTH FR-TO |
| FR-TO  |                           |                           |                            | FR-TO |                           |                            |                       |
| E-B    | -234 / 0                  | 0.0                       | 0.0 (0.02 (4))             | 7.81  |                           |                            |                       |
| A-B    | 0 / 28                    | -91.8                     | -91.8 (0.13 (5))           | 10.00 |                           |                            |                       |
| B-C    | -10 / 0                   | -91.8                     | -91.8 (0.08 (1))           | 10.00 |                           |                            |                       |
| E-F    | 0 / 0                     | -18.5                     | -18.5 (0.03 (4))           | 10.00 |                           |                            |                       |
| F-D    | 0 / 0                     | -18.5                     | -18.5 (0.03 (4))           | 10.00 |                           |                            |                       |

##### FACTORED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|-------|------|-------|------|-------|
| F  | 2-0-12 | 1   | 1    | ---  | FRONT | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 8 = 17 lb

##### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, CBC 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) =  $L/989$  (0.00")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.19")  
CALCULATED VERT. DEFL.(TL) =  $L/989$  (0.00")

CSI: TC=0.13/1.00 (A-B-5), BC=0.03/1.00 (D-E-4),  
WB=0.00/1.00 (V-A-0), SS=0.10/1.00 (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.

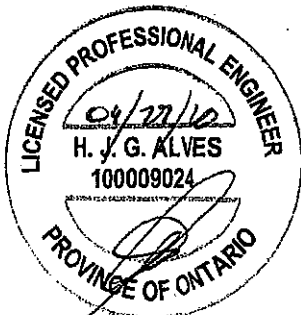
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
| (PSI) | (PLI)     | (PU)  |                    |
| 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 = 0.10 (E) (INPUT = 0.90)  
JSI METAL = 0.08 (B) (INPUT = 1.00)



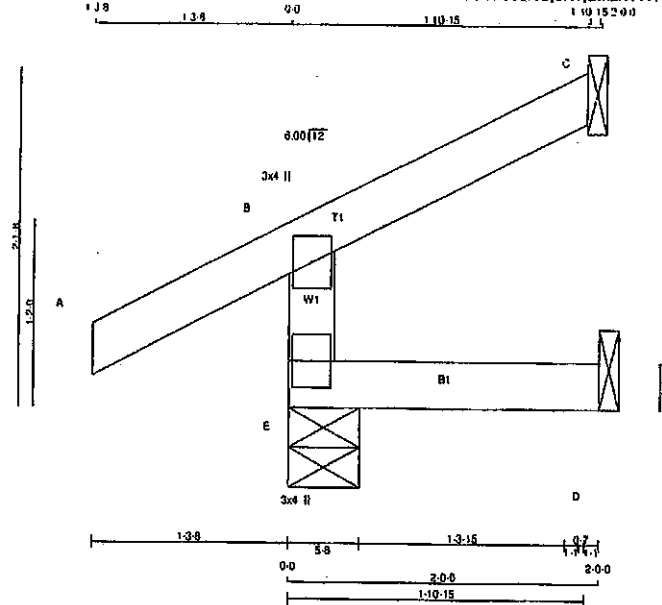
Structural component only  
DWG# T-2007102

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 408152   | C45        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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ID:17vF7aG0E03cRUj6X1SrkzIWYK-IHMPuJookzqm\_ph40S3PIPT\_PiZYV6xIk4xXDzNCOc

Scale = 1:13.4



TOTAL WEIGHT = 2 X 7 = 15 lb

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

DRY: SEASONED LUMBER.

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

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

| BEARINGS       | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------------|----------------|------------------|-------|------|
| GROSS REACTION | GROSS REACTION | BRG              | BRG   |      |
| JT             | VERT           | HORZ             | DOWN  | HORZ |
| E              | 254            | 0                | 254   | 0    |
| C              | 66             | 0                | 66    | 0    |
| D              | 16             | 0                | 16    | 0    |

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

| UNFACTORED REACTIONS | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |
|----------------------|----------|---------|---------------------|
| JT                   | COMBINED | SNOW    | LIVE                |
| E                    | 177      | 130 / 0 | 0 / 0               |
| C                    | 48       | 37 / 0  | 0 / 0               |
| D                    | 13       | 0 / 0   | 0 / 0               |

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

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

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

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

| CHORDS |                           |                           | WEBS     |                           |                        |
|--------|---------------------------|---------------------------|----------|---------------------------|------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED MAX. CSI (LC) |
| FR-TO  |                           | FROM TO                   | FR-TO    |                           |                        |
| E-B    | -234 / 0                  | 0.0 0.0                   | 0.01 (4) | 7.81                      |                        |
| A-B    | 0 / 28                    | -91.8 -91.8               | 0.12 (1) | 10.00                     |                        |
| B-C    | -10 / 0                   | -91.8 -91.8               | 0.08 (1) | 10.00                     |                        |
| E-D    | 0 / 0                     | -18.5 -18.5               | 0.02 (4) | 10.00                     |                        |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

### DESIGN CRITERIA

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

**SPACING = 24.0 IN. CG**

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, ORC 2012, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-09, CSA 088-14  
- TPC 2011, TPC 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 (0.18")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.18")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (A-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 SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 618 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (E) (INPUT = 0.99)  
JSI METAL= 0.08 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2007103