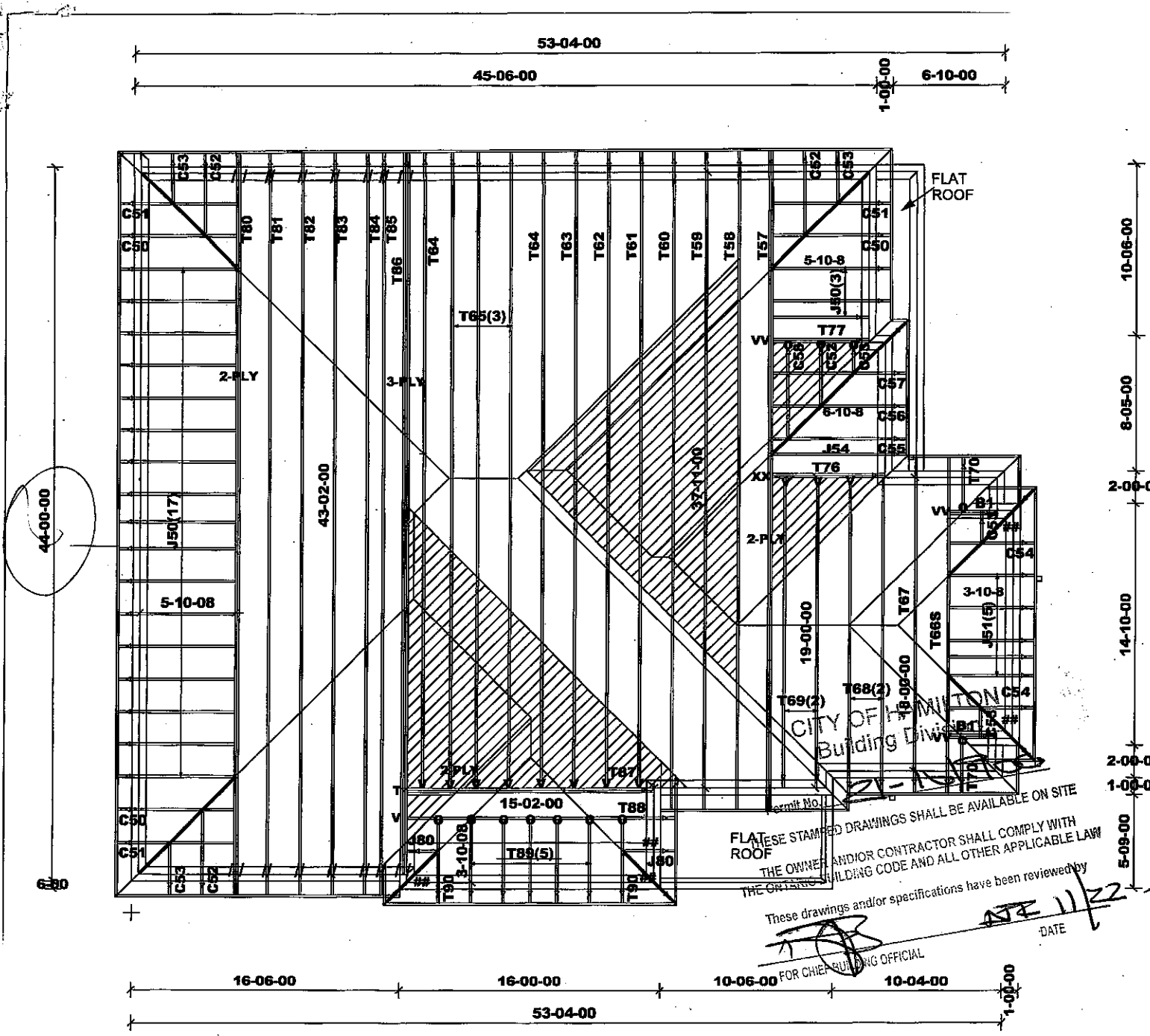




6/12 roof pitch unless noted otherwise

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

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

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

DESIGN LOADS:  
TCSL = 25.6 psf  
TCDL = 6.0 psf  
BCLL = 0.0 psf  
BCDL = 7.4 psf

HARDWARE:  
LUS24 - (O)  
LJS26DS - (V)  
HGUS26-2 - (XX)  
LUS26-2 (VV)  
H2.5A (I)  
**THGQH2-SDS3(MAX) - (T)**

BEAMS:  
B1 = 2 - 2x10 SPF #2  
build up to reach 12" in height on B1 to provide support for high ceiling jack

## - 12" raised plate and ceiling

 **DENOTES: CONVENTIONAL FRAMING**

These STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE  
THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH THE BUILDING CODE AND ALL OTHER APPLICABLE LAW  
These drawings and/or specifications have been reviewed by  
DATE 11/22

|                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                               |                     |                                                      |  |
|------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------|--|
|  | Job Track: <b>52166</b>              | Builder / Location:<br><b>GREENPARK HOMES / HAMILTON</b>                                                                                                                                                                                                                                                                      |                     | Model / Elevation:<br><b>GRANDVILLE 12 / LOT 601</b> |  |
|                                                                                    | Plan Log: <b>205847</b>              |                                                                                                                                                                                                                                                                                                                               |                     |                                                      |  |
|                                                                                    | Layout ID: <b>424915</b>             |                                                                                                                                                                                                                                                                                                                               |                     |                                                      |  |
|                                                                                    | Project: <b>RUSSELL GARDENS PH.4</b> | 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. |                     |                                                      |  |
| Date: <b>2022-03-07</b>                                                            | Sales: <b>William Garcia</b>         | Designer: <b>JG/JC</b>                                                                                                                                                                                                                                                                                                        | Mitek ver 8.4.2.286 |                                                      |  |



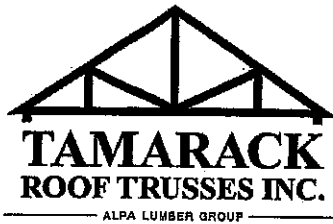
## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: RUSSELL GARDENS PH.4  
 Location: HAMILTON  
 Model: GRANDVILLE 12  
 Lot #:   
 Elevation: LOT 601

Job Track: 52166  
 PlanLog: 205847  
 Layout ID: 424915  
 Ref #  
 Page: 1 of 4  
 Date: 03-14-2022  
 Designer:  
 Sales Rep: William Garcia

### Roof Trusses

| PROFILE | QTY<br>PLY | MARK<br>TYPE                  | PITCH | SPAN     | HEIGHT   | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|-------------------------------|-------|----------|----------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1<br>2-ply | T57<br>Roof Special<br>Girder | 6 /12 | 37-11-00 | 4-07-04  | 2 x 6          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 434.66<br>270.00 |                     |                    |
|         | 1          | T58<br>Hip                    | 6 /12 | 37-11-00 | 3-10-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 179.7<br>108.17  |                     |                    |
|         | 1          | T59<br>Hip                    | 6 /12 | 37-11-00 | 4-10-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 183.95<br>111.50 |                     |                    |
|         | 1          | T60<br>Hip                    | 6 /12 | 37-11-00 | 5-10-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 187.69<br>114.33 |                     |                    |
|         | 1          | T61<br>Hip                    | 6 /12 | 37-11-00 | 6-10-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 174.88<br>108.17 |                     |                    |
|         | 1          | T62<br>Hip                    | 6 /12 | 37-11-00 | 7-10-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 181.06<br>110.67 |                     |                    |
|         | 1          | T63<br>Hip                    | 6 /12 | 37-11-00 | 8-10-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 190.03<br>115.67 |                     |                    |
|         | 2          | T64<br>Hip                    | 6 /12 | 37-11-00 | 9-10-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 386.08<br>240.00 |                     |                    |
|         | 3          | T65<br>Common                 | 6 /12 | 37-11-00 | 10-07-12 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 580.58<br>347.00 |                     |                    |
|         | 1          | T66S<br>Hip Girder            | 6 /12 | 18-00-00 | 4-01-04  | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 88.55<br>58.50   |                     |                    |
|         | 1          | T67<br>Hip                    | 6 /12 | 18-00-00 | 5-01-04  | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 74.69<br>48.17   |                     |                    |
|         | 2          | T68<br>Common                 | 6 /12 | 18-00-00 | 5-08-00  | 2 x 4          | 1-05-00<br>1-05-00        | 1-02-00<br>1-02-00           | 143.97<br>92.00  |                     |                    |
|         | 2          | T69<br>Common                 | 6 /12 | 19-00-00 | 5-08-00  | 2 x 4          |                           | 8-00<br>1-02-00              | 140.89<br>90.67  |                     |                    |
|         | 2          | T70<br>Jack-Closed            | 6 /12 | 2-00-00  | 2-02-00  | 2 x 4          | 1-03-08                   | 1-02-00<br>2-02-00           | 20.97<br>14.00   |                     |                    |



## DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: RUSSELL GARDENS PH.4  
 Location: HAMILTON  
 Model: GRANDVILLE 12  
 Lot #:   
 Elevation: LOT 601

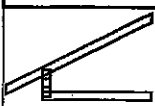
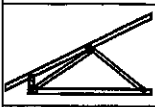
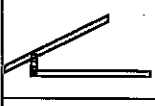
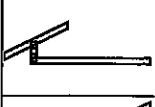
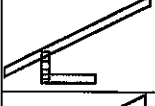
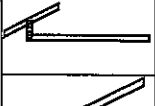
Job Track: 52166  
 PlanLog: 205847  
 Layout ID: 424915  
 Ref #  
 Page: 2 of 4  
 Date: 03-14-2022  
 Designer:  
 Sales Rep: William Garcia

### Roof Trusses

| PROFILE | QTY<br>PLY | MARK<br>TYPE                 | PITCH | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.     | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|------------------------------|-------|----------|---------|----------------|---------------------------|------------------------------|------------------|---------------------|--------------------|
|         | 1<br>2-ply | T76<br>Jack-Closed<br>Girder | 6 /12 | 6-10-08  | 4-07-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-07-04           | 67.02<br>42.33   |                     |                    |
|         | 1<br>2-ply | T77<br>Jack-Closed<br>Girder | 6 /12 | 5-10-08  | 4-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 57.64<br>37.00   |                     |                    |
|         | 1<br>2-ply | T80<br>Hip Girder            | 6 /12 | 43-02-00 | 4-01-04 | 2 x 6<br>2 x 8 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 538.17<br>330.67 |                     |                    |
|         | 1          | T81<br>Hip                   | 6 /12 | 43-02-00 | 5-01-04 | 2 x 6          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 262.17<br>161.00 |                     |                    |
|         | 1          | T82<br>Hip                   | 6 /12 | 43-02-00 | 6-01-04 | 2 x 6          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 268.31<br>162.33 |                     |                    |
|         | 1          | T83<br>Hip                   | 6 /12 | 43-02-00 | 7-01-04 | 2 x 6          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 270.73<br>162.33 |                     |                    |
|         | 1          | T84<br>Hip                   | 6 /12 | 43-02-00 | 8-01-04 | 2 x 6          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 283.62<br>168.33 |                     |                    |
|         | 1          | T85<br>Hip                   | 6 /12 | 43-02-00 | 8-07-04 | 2 x 6          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 274.56<br>165.00 |                     |                    |
|         | 1<br>3-ply | T86<br>Hip Girder            | 6 /12 | 43-02-00 | 9-02-12 | 2 x 6<br>2 x 8 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 963.55<br>572.00 |                     |                    |
|         | 1<br>2-ply | T87<br>Hip Girder            | 6 /12 | 15-02-00 | 4-11-00 | 2 x 4<br>2 x 8 |                           | 2-02-00<br>2-02-00           | 200.62<br>129.33 |                     |                    |
|         | 1          | T88<br>Hip Girder            | 6 /12 | 15-02-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 2-02-00<br>2-02-00           | 77.04<br>48.33   |                     |                    |
|         | 5          | T89<br>Half Hip              | 6 /12 | 3-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 123.45<br>85.00  |                     |                    |
|         | 2          | T90<br>Half Hip<br>Girder    | 6 /12 | 3-10-08  | 3-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>3-01-04           | 46.92<br>33.67   |                     |                    |
|         | 20         | J50<br>Jack-Open             | 6 /12 | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 335.89<br>213.33 |                     |                    |

|                                                                                                                                                                    |                          |                      |            |                |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|------------|----------------|--------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPA LUMBER GROUP</small></p> | <b>DELIVERY SHIPLIST</b> |                      |            |                |        |
|                                                                                                                                                                    | Lumber Yard:             | TAMARACK LUMBER      |            | Job Track:     | 52166  |
|                                                                                                                                                                    | Builder:                 | GREENPARK HOMES      |            | PlanLog:       | 205847 |
|                                                                                                                                                                    | Project:                 | RUSSELL GARDENS PH.4 |            | Layout ID:     | 424915 |
|                                                                                                                                                                    | Location:                | HAMILTON             |            | Ref #          |        |
|                                                                                                                                                                    | Model:                   | GRANDVILLE 12        |            | Page:          | 3 of 4 |
| Lot #:                                                                                                                                                             |                          |                      | Date:      | 03-14-2022     |        |
| Elevation:                                                                                                                                                         | LOT 601                  |                      | Designer:  |                |        |
|                                                                                                                                                                    |                          |                      | Sales Rep: | William Garcia |        |

## Roof Trusses

| PROFILE                                                                            | QTY<br>PLY | MARK<br>TYPE     | PITCH | SPAN    | HEIGHT  | LUMBER | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.   | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|------------------------------------------------------------------------------------|------------|------------------|-------|---------|---------|--------|---------------------------|------------------------------|----------------|---------------------|--------------------|
|    | 5          | J51<br>Jack-Open | 6 /12 | 3-10-08 | 3-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>3-01-04           | 59.82<br>36.67 |                     |                    |
|    | 1          | J54<br>Jack-Open | 6 /12 | 6-10-08 | 4-07-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>4-07-04           | 25.56<br>16.00 |                     |                    |
|    | 2          | J80<br>Jack-Open | 6 /12 | 1-10-08 | 2-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>2-01-04           | 14.27<br>9.33  |                     |                    |
|    | 3          | C50<br>Jack-Open | 6 /12 | 3-09-07 | 3-00-12 | 2 x 4  | 1-03-08<br>2-01-01        | 1-02-00<br>3-00-12           | 42.4<br>26.00  |                     |                    |
|   | 3          | C51<br>Jack-Open | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4  | 1-03-08<br>4-01-01        | 1-02-00<br>2-00-12           | 34.75<br>22.00 |                     |                    |
|  | 4          | C52<br>Jack-Open | 6 /12 | 1-10-08 | 3-00-12 | 2 x 4  | 1-03-08<br>1-10-15        | 1-02-00<br>2-01-04           | 38.28<br>24.00 |                     |                    |
|  | 6          | C53<br>Jack-Open | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4  | 1-03-08<br>1-01           | 1-02-00<br>2-00-12           | 42.13<br>28.00 |                     |                    |
|  | 2          | C54<br>Jack-Open | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4  | 1-03-08<br>2-01-01        | 1-02-00<br>2-00-12           | 18.6<br>12.00  |                     |                    |
|  | 1          | C55<br>Jack-Open | 6 /12 | 5-09-07 | 4-00-12 | 2 x 4  | 1-03-08<br>1-01-01        | 1-02-00<br>4-00-12           | 17.82<br>11.33 |                     |                    |
|  | 1          | C56<br>Jack-Open | 6 /12 | 3-09-07 | 3-00-12 | 2 x 4  | 1-03-08<br>3-01-01        | 1-02-00<br>3-00-12           | 15.27<br>9.33  |                     |                    |
|  | 1          | C57<br>Jack-Open | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4  | 1-03-08<br>5-01-01        | 1-02-00<br>2-00-12           | 12.72<br>8.00  |                     |                    |
|  | 1          | C58<br>Jack-Open | 6 /12 | 1-10-08 | 4-00-12 | 2 x 4  | 3-10-15                   | 1-02-00<br>2-01-04           | 10.47<br>6.67  |                     |                    |

TOTAL # TRUSS= 95

TOTAL BFT OF ALL TRUSSES= 4348.83

BFT.

TOTAL WEIGHT OF ALL TRSSES 7069.48 LBS

## HARDWARE

| QTY | TYPE     | MODEL   | LENGTH |
|-----|----------|---------|--------|
| 12  | Hardware | LUS24   |        |
| 12  | Hardware | LJS26DS |        |

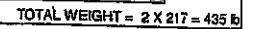
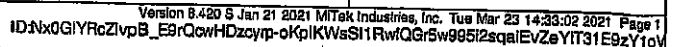
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPA LUMBER GROUP</small></p> | <b>DELIVERY SHIPLIST</b>                                                                                                                                                |                                                                                                                                                 |
|                                                                                                                                                                    | Lumber Yard: TAMARACK LUMBER<br>Builder: GREENPARK HOMES<br>Project: RUSSELL GARDENS PH.4<br>Location: HAMILTON<br>Model: GRANDVILLE 12<br>Lot #:<br>Elevation: LOT 601 | Job Track: 52166<br>PlanLog: 205847<br>Layout ID: 424915<br>Ref #<br>Page: 4 of 4<br>Date: 03-14-2022<br>Designer:<br>Sales Rep: William Garcia |

**HARDWARE**

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 3   | Hardware | LUS26-2  |        |
| 1   | Hardware | HGUS26-2 |        |
| 28  | Hardware | H2.5A    |        |

TOTAL NUMBER OF ITEMS= 56

**Tamarack Roof Truss, Burlington**



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

## DESIGN CRITERIA

LOADS WERE DERIVED FROM USER INPUT  
NO FURTHER MODIFICATIONS WERE MADE

| IT | 1ST LOASE<br>COMBINER | MAX. MIN. COMPONENT REACTIONS |
|----|-----------------------|-------------------------------|
|    |                       |                               |

**SPECIFIED LOADS:**

|     |     |      |     |     |
|-----|-----|------|-----|-----|
| BOT | CH. | DL = | 6.0 | PSF |
|     |     | LL = | 0.0 | PSF |

**TOTAL LOAD = 39.0 PSF**

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

**DRY: SEASONED LUMBER.**

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.62 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.

| CHORDS #ROWS | SURFACE<br>SPACING (IN) | LOAD(PLF) |
|--------------|-------------------------|-----------|
|--------------|-------------------------|-----------|

| CHORDS |                                 |                                     |               | WEBS  |                                 |               |       |
|--------|---------------------------------|-------------------------------------|---------------|-------|---------------------------------|---------------|-------|
| MEMB.  | MAX. FACTORED<br>FORCE<br>(LBS) | FACTORED<br>VERT. LOAD LGT<br>(LBS) | MAX.<br>CSL/C | MEMB. | MAX. FACTORED<br>FORCE<br>(LBS) | MAX.<br>CSL/C | MEMB. |

| FR-TO | FROM | TO   | LENGTH | FR-TO | (LBS) | CS (LBS) |
|-------|------|------|--------|-------|-------|----------|
| 1-1   | 1-1  | 1-1  | 1-1    | 1-1   | 1-1   | 1-1      |
| 1-2   | 1-2  | 1-2  | 1-2    | 1-2   | 1-2   | 1-2      |
| 1-3   | 1-3  | 1-3  | 1-3    | 1-3   | 1-3   | 1-3      |
| 1-4   | 1-4  | 1-4  | 1-4    | 1-4   | 1-4   | 1-4      |
| 1-5   | 1-5  | 1-5  | 1-5    | 1-5   | 1-5   | 1-5      |
| 1-6   | 1-6  | 1-6  | 1-6    | 1-6   | 1-6   | 1-6      |
| 1-7   | 1-7  | 1-7  | 1-7    | 1-7   | 1-7   | 1-7      |
| 1-8   | 1-8  | 1-8  | 1-8    | 1-8   | 1-8   | 1-8      |
| 1-9   | 1-9  | 1-9  | 1-9    | 1-9   | 1-9   | 1-9      |
| 1-10  | 1-10 | 1-10 | 1-10   | 1-10  | 1-10  | 1-10     |
| 1-11  | 1-11 | 1-11 | 1-11   | 1-11  | 1-11  | 1-11     |
| 1-12  | 1-12 | 1-12 | 1-12   | 1-12  | 1-12  | 1-12     |
| 1-13  | 1-13 | 1-13 | 1-13   | 1-13  | 1-13  | 1-13     |
| 1-14  | 1-14 | 1-14 | 1-14   | 1-14  | 1-14  | 1-14     |
| 1-15  | 1-15 | 1-15 | 1-15   | 1-15  | 1-15  | 1-15     |
| 1-16  | 1-16 | 1-16 | 1-16   | 1-16  | 1-16  | 1-16     |
| 1-17  | 1-17 | 1-17 | 1-17   | 1-17  | 1-17  | 1-17     |
| 1-18  | 1-18 | 1-18 | 1-18   | 1-18  | 1-18  | 1-18     |
| 1-19  | 1-19 | 1-19 | 1-19   | 1-19  | 1-19  | 1-19     |
| 1-20  | 1-20 | 1-20 | 1-20   | 1-20  | 1-20  | 1-20     |
| 1-21  | 1-21 | 1-21 | 1-21   | 1-21  | 1-21  | 1-21     |
| 1-22  | 1-22 | 1-22 | 1-22   | 1-22  | 1-22  | 1-22     |
| 1-23  | 1-23 | 1-23 | 1-23   | 1-23  | 1-23  | 1-23     |
| 1-24  | 1-24 | 1-24 | 1-24   | 1-24  | 1-24  | 1-24     |
| 1-25  | 1-25 | 1-25 | 1-25   | 1-25  | 1-25  | 1-25     |
| 1-26  | 1-26 | 1-26 | 1-26   | 1-26  | 1-26  | 1-26     |
| 1-27  | 1-27 | 1-27 | 1-27   | 1-27  | 1-27  | 1-27     |
| 1-28  | 1-28 | 1-28 | 1-28   | 1-28  | 1-28  | 1-28     |
| 1-29  | 1-29 | 1-29 | 1-29   | 1-29  | 1-29  | 1-29     |
| 1-30  | 1-30 | 1-30 | 1-30   | 1-30  | 1-30  | 1-30     |
| 1-31  | 1-31 | 1-31 | 1-31   | 1-31  | 1-31  | 1-31     |
| 1-32  | 1-32 | 1-32 | 1-32   | 1-32  | 1-32  | 1-32     |
| 1-33  | 1-33 | 1-33 | 1-33   | 1-33  | 1-33  | 1-33     |
| 1-34  | 1-34 | 1-34 | 1-34   | 1-34  | 1-34  | 1-34     |
| 1-35  | 1-35 | 1-35 | 1-35   | 1-35  | 1-35  | 1-35     |
| 1-36  | 1-36 | 1-36 | 1-36   | 1-36  | 1-36  | 1-36     |
| 1-37  | 1-37 | 1-37 | 1-37   | 1-37  | 1-37  | 1-37     |
| 1-38  | 1-38 | 1-38 | 1-38   | 1-38  | 1-38  | 1-38     |
| 1-39  | 1-39 | 1-39 | 1-39   | 1-39  | 1-39  | 1-39     |
| 1-40  | 1-40 | 1-40 | 1-40   | 1-40  | 1-40  | 1-40     |
| 1-41  | 1-41 | 1-41 | 1-41   | 1-41  | 1-41  | 1-41     |
| 1-42  | 1-42 | 1-42 | 1-42   | 1-42  | 1-42  | 1-42     |
| 1-43  | 1-43 | 1-43 | 1-43   | 1-43  | 1-43  | 1-43     |
| 1-44  | 1-44 | 1-44 | 1-44   | 1-44  | 1-44  | 1-44     |
| 1-45  | 1-45 | 1-45 | 1-45   | 1-45  | 1-45  | 1-45     |
| 1-46  | 1-46 | 1-46 | 1-46   | 1-46  | 1-46  | 1-46     |
| 1-47  | 1-47 | 1-47 | 1-47   | 1-47  | 1-47  | 1-47     |
| 1-48  | 1-48 | 1-48 | 1-48   | 1-48  | 1-48  | 1-48     |
| 1-49  | 1-49 | 1-49 | 1-49   | 1-49  | 1-49  | 1-49     |
| 1-50  | 1-50 | 1-50 | 1-50   | 1-50  | 1-50  | 1-50     |
| 1-51  | 1-51 | 1-51 | 1-51   | 1-51  | 1-51  | 1-51     |
| 1-52  | 1-52 | 1-52 | 1-52   | 1-52  | 1-52  | 1-52     |
| 1-53  | 1-53 | 1-53 | 1-53   | 1-53  | 1-53  | 1-53     |

|     |          |       |       |          |       |     |          |          |
|-----|----------|-------|-------|----------|-------|-----|----------|----------|
| A-B | 0 / 28   | -91.8 | -91.8 | 0.07 (1) | 10.00 | W-C | -852 / 0 | 0.08 (1) |
| B-C | 8882 / 0 | 81.5  | 81.5  | 0.00 (1) | 10.00 |     |          |          |

|     |          |       |       |          |      |     |         |          |
|-----|----------|-------|-------|----------|------|-----|---------|----------|
| C-Y | -13188/0 | -91.8 | -91.8 | 0.40 (1) | 2.10 | T-E | -8343/0 | 0.71 (1) |
|-----|----------|-------|-------|----------|------|-----|---------|----------|

|     |          |       |       |          |      |     |        |          |
|-----|----------|-------|-------|----------|------|-----|--------|----------|
| Y-Z | -1319870 | -91.8 | -91.8 | 0.40 (1) | 3.10 | P-I | 07/131 | 0.08 (4) |
|-----|----------|-------|-------|----------|------|-----|--------|----------|

|      |          |       |       |          |      |     |       |          |
|------|----------|-------|-------|----------|------|-----|-------|----------|
| Z-AA | -13198/0 | -91.8 | -91.8 | 0.40 (1) | 3.10 | P-J | 0/209 | 0.02 (1) |
| AA-D | -13198/0 | -91.8 | -91.8 | 0.40 (1) | 3.10 | P-J | 0/209 | 0.02 (1) |

|     |          |        |        |          |      |     |        |          |
|-----|----------|--------|--------|----------|------|-----|--------|----------|
| D-E | -15724/0 | -184.8 | -184.8 | 0.58 (1) | 3.93 | B-W | 0.2798 | 0.25 (1) |
|-----|----------|--------|--------|----------|------|-----|--------|----------|

|     |          |       |       |          |      |     |        |          |
|-----|----------|-------|-------|----------|------|-----|--------|----------|
| E-F | -17863/0 | -91.8 | -91.8 | 0.39 (1) | 2.62 | O-L | 0/5544 | 0.49 (1) |
|-----|----------|-------|-------|----------|------|-----|--------|----------|

|     |          |       |       |          |      |     |        |          |
|-----|----------|-------|-------|----------|------|-----|--------|----------|
| F-G | -14348/0 | -91.8 | -91.8 | 0.32 (1) | 3.05 | S-G | -172/0 | 0.02 (1) |
| G-H | -14348/0 | -91.8 | -91.8 | 0.32 (1) | 3.05 | S-G | -172/0 | 0.02 (1) |

|     |          |       |       |          |      |     |        |          |
|-----|----------|-------|-------|----------|------|-----|--------|----------|
| U-1 | -1434870 | -91.8 | -91.8 | 0.44 (1) | 2.97 | F.S | 0.536  | 0.05 (1) |
| H-1 | -1122870 | -91.8 | -91.8 | 0.30 (1) | 3.42 | C.I | 0.5225 | 0.14 (1) |

|     |         |       |       |          |      |     |        |          |
|-----|---------|-------|-------|----------|------|-----|--------|----------|
| I-J | -7959/0 | -91.8 | -91.8 | 0.13 (1) | 4.21 | S-H | 0/3895 | 0.34 (1) |
|-----|---------|-------|-------|----------|------|-----|--------|----------|

|     |         |       |       |          |      |     |         |          |
|-----|---------|-------|-------|----------|------|-----|---------|----------|
| J-R | -5877/0 | -91.8 | -91.8 | 0.11 (1) | 4.03 | Q-H | -2923/0 | 0.30 (1) |
| K-L | -8085/0 | -91.8 | -91.8 | 0.11 (1) | 4.03 | Q-H | -2923/0 | 0.30 (1) |

|     |      |       |       |          |       |     |        |          |
|-----|------|-------|-------|----------|-------|-----|--------|----------|
| L-M | 0/28 | -91.8 | -91.8 | 0.07 (1) | 10.00 | C-V | 0/3077 | 0.27 (1) |
|-----|------|-------|-------|----------|-------|-----|--------|----------|

|     |         |     |     |          |      |     |         |          |
|-----|---------|-----|-----|----------|------|-----|---------|----------|
| X-B | -5294/0 | 0.0 | 0.0 | 0.19 (1) | 6.36 | V-D | -2849/0 | 0.24 (1) |
|-----|---------|-----|-----|----------|------|-----|---------|----------|

|     |         |     |     |          |      |     |         |          |
|-----|---------|-----|-----|----------|------|-----|---------|----------|
| N-L | -4169.0 | 0.0 | 0.0 | 0.15 (1) | 6.99 | J-O | -4282.0 | 0.28 (1) |
|-----|---------|-----|-----|----------|------|-----|---------|----------|

|      |     |       |       |        |       |
|------|-----|-------|-------|--------|-------|
| X-AB | 070 | -18.5 | -18.5 | 0.0474 | 10.00 |
|------|-----|-------|-------|--------|-------|

|       |     |       |       |          |       |
|-------|-----|-------|-------|----------|-------|
| AB-AC | 0.0 | -18.5 | -18.5 | 0.04 (4) | 10.00 |
|-------|-----|-------|-------|----------|-------|

|      |         |       |       |          |       |
|------|---------|-------|-------|----------|-------|
| AC-W | 0/0     | -18.5 | -18.5 | 0.04 (4) | 10.00 |
| W-AD | 0/17817 | -18.5 | -18.5 | 0.00 (0) | 10.00 |

|       |        |       |       |          |       |
|-------|--------|-------|-------|----------|-------|
| AD-AE | 0/7817 | -18.5 | -18.5 | 0.26 (1) | 10.00 |
|-------|--------|-------|-------|----------|-------|

|       |        |       |       |          |       |
|-------|--------|-------|-------|----------|-------|
| AE-AF | 0/7817 | -18.5 | -18.5 | 0.26 (1) | 10.00 |
|-------|--------|-------|-------|----------|-------|

|      |         |       |       |          |       |
|------|---------|-------|-------|----------|-------|
| AF-V | 0.7817  | -18.5 | -18.5 | 0.26 (1) | 10.00 |
| V-A3 | 0.12197 | 18.5  | 18.5  | 0.12     |       |

|       |          |       |       |          |       |
|-------|----------|-------|-------|----------|-------|
| AG- U | 0/ 13197 | -18.5 | -18.5 | 0.46 (1) | 10.00 |
|-------|----------|-------|-------|----------|-------|

|      |           |       |       |          |       |
|------|-----------|-------|-------|----------|-------|
| U-AH | 0 / 13197 | -18.5 | -18.5 | 0.46 (1) | 10.00 |
|------|-----------|-------|-------|----------|-------|

|      |         |       |       |          |       |
|------|---------|-------|-------|----------|-------|
| AN-T | 0/13197 | -18.5 | -18.5 | 0.46 (T) | 10.00 |
| T-AI | 0/14191 | -18.5 | -18.5 | 0.46 (T) | 10.00 |

|      |          |       |       |          |       |
|------|----------|-------|-------|----------|-------|
| AI-S | 07/14/81 | -18.5 | -18.5 | 0.49 (1) | 10.00 |
|------|----------|-------|-------|----------|-------|

|     |         |       |       |          |       |
|-----|---------|-------|-------|----------|-------|
| S-R | 0/11228 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
|-----|---------|-------|-------|----------|-------|

|     |         |       |       |          |       |
|-----|---------|-------|-------|----------|-------|
| H-Q | 0.11228 | -18.5 | -18.5 | 0.32 (1) | 10.00 |
| Q-R | 0.13157 | -18.5 | -18.5 | 0.32 (1) | 10.00 |

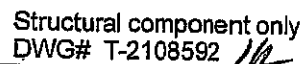
|     |         |       |       |          |       |
|-----|---------|-------|-------|----------|-------|
| Q-1 | 07/7137 | -18.5 | -18.5 | 0.21 (1) | 10.00 |
| P-O | 01/6978 | -18.5 | -18.5 | 0.25 (1) | 10.00 |

|     |     |       |       |          |       |
|-----|-----|-------|-------|----------|-------|
| O-N | 0/0 | -18.5 | -18.5 | 0.07 (1) | 10.00 |
|-----|-----|-------|-------|----------|-------|

**SPECIFIED CONCENTRATED LIQUIDS:**

| SPECIFIED CONCENTRATED LOADS (LBS) |      |      |      |      |      |     |     |      |  |
|------------------------------------|------|------|------|------|------|-----|-----|------|--|
| NT                                 | LOC. | LOC1 | MAY- | MAY+ | FACE | DIB | REF | UNIT |  |

| C      | SST  | MAR- | MAR+ | FACE | DIN. | TYPE  | HEEL | CC |
|--------|------|------|------|------|------|-------|------|----|
| 5-10-8 | -254 | -254 | --   | BACK | VERT | TOTAL | --   | C  |



CONTINUED ON PAGE 2

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
|---------------------------------|------------|----------|-----|-----------------|----------|
| 417479                          | T57        | 1        | 2   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

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ID:Nx0GIYRcZlvB E9rQcwHDzcmp-oKpJkWsSt1RwQGr6w9952sqeEvZeYIT31E9zY1oV

# PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMVW-p  | MT20   | 8.0 | 8.0  | Edge |      |
| C  | TTWW+m  | MT20   | 8.0 | 9.0  | Edge |      |
| D  | TMWW-t  | MT20   | 5.0 | 6.0  |      |      |
| E  | TTW-m   | MT20   | 8.0 | 9.0  | 4.00 | 4.25 |
| F  | TTWW+m  | MT20   | 7.0 | 8.0  |      |      |
| G  | TMVW-w  | MT20   | 3.0 | 6.0  |      |      |
| H  | TMWW-t  | MT20   | 5.0 | 6.0  |      |      |
| I  | TTWW+m  | MT20   | 8.0 | 9.0  | 4.25 | 2.25 |
| J  | TTWW+m  | MT20   | 5.0 | 8.0  | 3.50 | 2.50 |
| K  | TTW-m   | MT20   | 8.0 | 8.0  |      |      |
| L  | TMVW-p  | MT20   | 5.0 | 6.0  | 2.00 | 2.75 |
| N  | BMV1-p  | MT20   | 3.0 | 6.0  |      |      |
| O  | BMWWV-t | MT20   | 5.0 | 12.0 |      |      |
| P  | BMWW-t  | MT20   | 5.0 | 6.0  |      |      |
| Q  | BMWW-t  | MT20   | 5.0 | 8.0  | 2.50 | 2.50 |
| R  | BS-t    | M116   | 5.0 | 12.5 | Edge | 6.25 |
| S  | BMWWV-t | MT20   | 6.0 | 9.0  |      |      |
| T  | BMWWV-t | MT20   | 8.0 | 12.0 | 2.75 | 2.75 |
| U  | BS-t    | M116   | 5.0 | 12.5 | 0.25 | 6.25 |
| V  | BMWW-t  | MT20   | 5.0 | 8.0  | 2.50 | 3.75 |
| W  | BMWW-t  | MT20   | 8.0 | 9.0  |      |      |
| X  | BMV1-p  | MT20   | 3.0 | 6.0  |      |      |

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

## NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

## SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| T  | 16-5-4 | -27  | -27  |      | BACK | VERT | TOTAL |      | C1    |
| W  | 5-11-4 | -21  | -21  |      | BACK | VERT | TOTAL |      | C1    |
| Y  | 7-11-4 | -76  | -76  |      | BACK | VERT | TOTAL |      | C1    |
| Z  | 8-11-4 | -76  | -76  |      | BACK | VERT | TOTAL |      | C1    |
| AB | 1-11-4 | -20  | -20  |      | BACK | VERT | TOTAL |      | C1    |
| AC | 3-11-4 | -21  | -21  |      | BACK | VERT | TOTAL |      | C1    |
| AD | 7-11-4 | -21  | -21  |      | BACK | VERT | TOTAL |      | C1    |
| AE | 8-11-4 | -21  | -21  |      | BACK | VERT | TOTAL |      | C1    |
| AF | 10-4-8 | -469 | -469 |      | BACK | VERT | TOTAL |      | C1    |
| AG | 12-5-4 | -85  | -85  |      | BACK | VERT | TOTAL |      | C1    |
| AH | 14-5-4 | -27  | -27  |      | BACK | VERT | TOTAL |      | C1    |
| AI | 17-5-4 | -164 | -164 |      | BACK | VERT | TOTAL |      | C1    |

## CONNECTION REQUIREMENTS

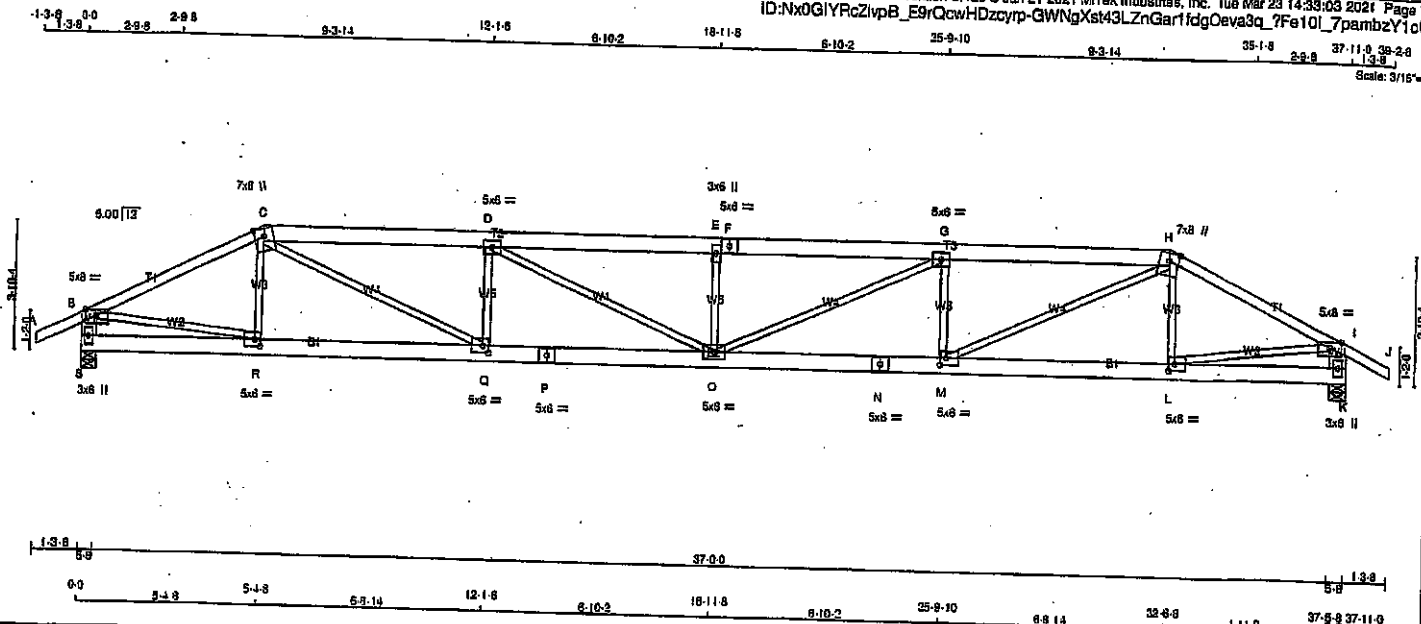
1) Ct: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only  
DWG# T-2108592

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T58</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | TRUSS DESC.          |                 |                                     |          |

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 ID:Nx0GIYRcZlpB\_E9rQcwHDzyp-GWNgXst43LZnGar1dgQeva3q\_?Fe10L7pambzY1oU  
 Scale: 3/16"=1'



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

DRY: SEASONED LUMBER.

| PLATES (table in inches) |         |        |     |     |           |
|--------------------------|---------|--------|-----|-----|-----------|
| JT                       | TYPE    | PLATES | W   | LEN | Y X       |
| B                        | TMVW-p  | MT20   | 5.0 | 8.0 | Edge      |
| C                        | TTWW-m  | MT20   | 7.0 | 8.0 | Edge      |
| D                        | TMVW-t  | MT20   | 5.0 | 6.0 |           |
| E                        | TMVW-w  | MT20   | 3.0 | 6.0 |           |
| F                        | TS-t    | MT20   | 5.0 | 6.0 |           |
| G                        | TMVW-t  | MT20   | 5.0 | 6.0 |           |
| H                        | TTWW-m  | MT20   | 7.0 | 8.0 | Edge      |
| I                        | TMVW-p  | MT20   | 6.0 | 8.0 | Edge      |
| K                        | BMV1-p  | MT20   | 3.0 | 6.0 |           |
| L, M, Q, R               |         |        |     |     |           |
| L                        | BMVW-t  | MT20   | 5.0 | 6.0 | 2.50 2.00 |
| N                        | BS-t    | MT20   | 5.0 | 6.0 |           |
| O                        | BMVWW-t | MT20   | 5.0 | 8.0 |           |
| P                        | BS-t    | MT20   | 5.0 | 6.0 |           |
| S                        | BMV1-p  | MT20   | 3.0 | 6.0 |           |

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

NOTES: (1)  
 1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |       | RECORD |  |
|----------------|------|------------------|------|--------|-------|--------|--|
| GROSS REACTION |      | GROSS REACTION   |      | BRG    |       | BRG    |  |
| JT VERT        | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX  |  |
| S 2215         | 0    | 2215             | 0    | 0      | 5-8   | 5-8    |  |
| K 2215         | 0    | 2215             | 0    | 0      | 5-8   | 5-8    |  |

**UNFACTORED REACTIONS**

| 1ST CASE |          | MAX/MIN COMPONENT REACTIONS |      |           |      |       |      |
|----------|----------|-----------------------------|------|-----------|------|-------|------|
| JT       | COMBINED | SNOW                        | LIVE | PERM.LIVE | WIND | DEAD  | SOIL |
| S        | 1584     | 1040.0                      | 0.0  | 0.0       | 0.0  | 524.0 | 0.0  |
| K        | 1584     | 1040.0                      | 0.0  | 0.0       | 0.0  | 524.0 | 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 = 3.25 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.  | FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC)  | MEMB. | FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) |
| FR-TO  |             | FROM TO                   |                | FR-TO |             | FROM TO                   |               |
| A-B    | 0.28        | -91.8                     | -91.8 0.12 (1) | 10.00 | B-R         | 0.2845                    | 0.64 (1)      |
| B-C    | -3139.0     | -91.8                     | -91.8 0.74 (1) | 3.25  | R-C         | -285.0                    | 0.06 (1)      |
| C-D    | -5174.0     | -91.8                     | -91.8 0.45 (1) | 3.54  | L-H         | -285.0                    | 0.06 (1)      |
| D-E    | -5897.0     | -91.8                     | -91.8 0.50 (1) | 3.30  | L-I         | 0.2845                    | 0.64 (1)      |
| E-F    | -5897.0     | -91.8                     | -91.8 0.50 (1) | 3.30  | M-H         | 0.2837                    | 0.59 (1)      |
| F-G    | -5897.0     | -91.8                     | -91.8 0.50 (1) | 3.30  | C-Q         | 0.2837                    | 0.59 (1)      |
| G-H    | -5174.0     | -91.8                     | -91.8 0.45 (1) | 3.54  | M-G         | -1077.0                   | 0.22 (1)      |
| H-I    | -3139.0     | -91.8                     | -91.8 0.74 (1) | 3.25  | Q-D         | -1077.0                   | 0.22 (1)      |
| I-J    | 0.28        | -91.8                     | -91.8 0.12 (1) | 10.00 | O-G         | 0.808                     | 0.18 (1)      |
| S-B    | -2175.0     | 0.0                       | 0.0 0.14 (1)   | 6.91  | D-O         | 0.808                     | 0.18 (1)      |
| K-I    | -2175.0     | 0.0                       | 0.0 0.14 (1)   | 6.91  | O-E         | -594.0                    | 0.12 (1)      |
| S-R    | 0.0         | -18.5                     | -18.5 0.07 (4) | 10.00 |             |                           |               |
| R-Q    | 0.2823      | -18.5                     | -18.5 0.40 (1) | 10.00 |             |                           |               |
| Q-P    | 0.5174      | -18.5                     | -18.5 0.89 (1) | 10.00 |             |                           |               |
| P-O    | 0.5174      | -18.5                     | -18.5 0.89 (1) | 10.00 |             |                           |               |
| O-N    | 0.5174      | -18.5                     | -18.5 0.89 (1) | 10.00 |             |                           |               |
| N-M    | 0.5174      | -18.5                     | -18.5 0.89 (1) | 10.00 |             |                           |               |
| M-L    | 0.2823      | -18.5                     | -18.5 0.40 (1) | 10.00 |             |                           |               |
| L-K    | 0.0         | -18.5                     | -18.5 0.07 (4) | 10.00 |             |                           |               |

**DESIGN CRITERIA**

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

**SPACING = 24.0 IN/C**

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

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

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF NBCC 2015, ABC 2019  
 - PART 9 OF NBC 2012 (2019 AMENDMENT)  
 - CSA 088-14  
 - 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 (1.28")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.37")  
 ALLOWABLE DEFL.(TL) = L/360 (1.28")  
 CALCULATED VERT. DEFL.(TL) = L/867 (0.68")

CSI: TC=0.74/1.00 (B-C:1), BC=0.69/1.00 (O-Q:1), WB=0.84/1.00 (B-R:1), SSI=0.22/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.30

AUTOSOLVE HEELS OFF

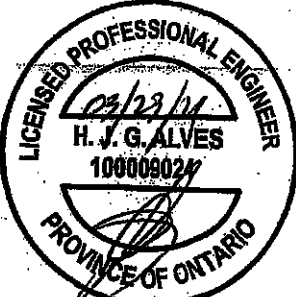
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**NAIL VALUES**  
 PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 650 371 1747 788 1937 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

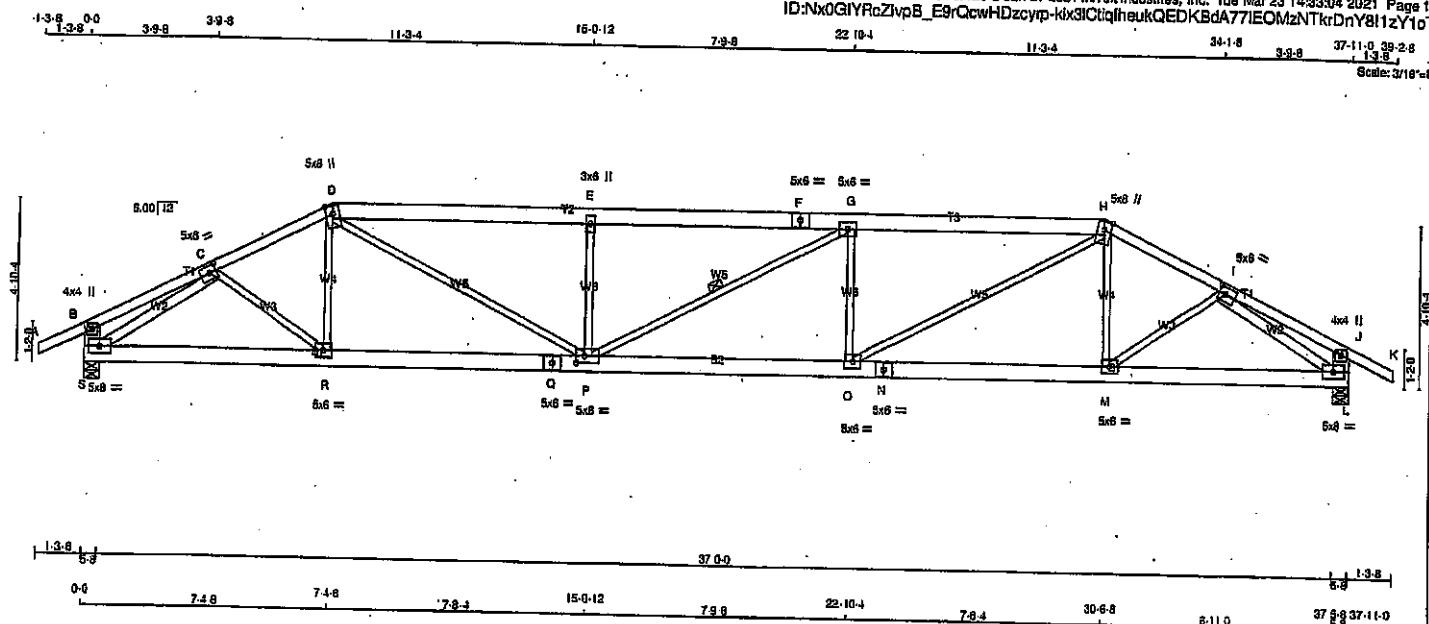
JSI GRIP = 0.87 (C) (INPUT = 0.90)  
 JSI METAL = 0.96 (F) (INPUT = 1.00)



Structural component only  
 DWG# T-2108593

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T59</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         |          |

Version 8.420 S Jan 21 2021 MTek Industries, Inc. Tue Mar 23 14:33:04 2021 Page 1  
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| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - D             | 2x4    | DRY  | No.2   |
| D - F             | 2x6    | DRY  | No.2   |
| F - H             | 2x6    | DRY  | No.2   |
| H - K             | 2x4    | DRY  | No.2   |
| S - B             | 2x6    | DRY  | No.2   |
| L - J             | 2x6    | DRY  | No.2   |
| S - O             | 2x6    | DRY  | No.2   |
| Q - N             | 2x6    | DRY  | No.2   |
| N - L             | 2x6    | 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   | 4.0 | 4.0 |           |
| C                           | TMWW-t | MT20   | 5.0 | 6.0 | 2.50 2.50 |
| D                           | TTWW+m | MT20   | 5.0 | 8.0 | Edge      |
| E                           | TMW+w  | MT20   | 3.0 | 6.0 |           |
| F                           | TS-t   | MT20   | 6.0 | 6.0 |           |
| G                           | TMWW-t | MT20   | 5.0 | 6.0 |           |
| H                           | TTWW+m | MT20   | 5.0 | 8.0 | Edge      |
| I                           | TMWW-t | MT20   | 5.0 | 6.0 | 2.50 2.50 |
| J                           | TMV+p  | MT20   | 4.0 | 4.0 |           |
| L                           | BMVW-t | MT20   | 5.0 | 8.0 |           |
| M, O, R                     |        |        |     |     |           |
| M                           | BMVW-t | MT20   | 5.0 | 6.0 |           |
| N                           | BS-t   | MT20   | 5.0 | 6.0 |           |
| P                           | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 3.00 |
| Q                           | BS-t   | MT20   | 5.0 | 6.0 |           |
| S                           | BMVW-t | MT20   | 5.0 | 8.0 |           |

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

NOTES: (1)  
1) Lateral braces to be a minimum of 2x4 SPF #2.

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

| FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT |        | RECORD |       |
|-------------------------|------|---------------------------------|------|-------|--------|--------|-------|
| JT                      | VERT | HORZ                            | DOWN | HORZ  | UPLIFT | BRG    | IN-SX |
| S                       | 2215 | 0                               | 2215 | 0     | 0      | 5-8    | 5-8   |
| L                       | 2215 | 0                               | 2215 | 0     | 0      | 5-8    | 5-8   |

### UNFACTORED REACTIONS

| JT | 1ST LOOSE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-----------|-------------------------------|------|------|------------|------|------|------|
| S  | 1584      | 1040                          | 0    | 0    | 0          | 0    | 524  | 0    |
| L  | 1584      | 1040                          | 0    | 0    | 0          | 0    | 524  | 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 = 3.69 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 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   |                | WEBS  |             | FACTORED    |     |
|--------|-------------|------------|----------------|-------|-------------|-------------|-----|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX        | MEMB. | FORCE (LBS) | MAX. UNBRAC | LC1 |
| FR-TO  |             | FROM       | TO             | FR-TO |             |             |     |
| A-B    | 0.128       | -91.8      | -91.8 0.12 (1) | C-R   | 0.180       | 0.04 (4)    |     |
| B-C    | 0.15        | -91.8      | -91.8 0.17 (1) | R-D   | 0.104       | 0.04 (4)    |     |
| C-D    | -3180       | -91.8      | -91.8 0.31 (1) | M-H   | 0.103       | 0.04 (4)    |     |
| D-E    | -4430       | -91.8      | -91.8 0.50 (1) | M-I   | 0.180       | 0.04 (4)    |     |
| E-F    | -4430       | -91.8      | -91.8 0.51 (1) | S-C   | -3283       | 0.74 (1)    |     |
| F-G    | -4430       | -91.8      | -91.8 0.51 (1) | I-L   | -3282       | 0.74 (1)    |     |
| G-H    | -4434       | -91.8      | -91.8 0.50 (1) | O-H   | 0.1861      | 0.42 (1)    |     |
| H-I    | -3159       | -91.8      | -91.8 0.31 (1) | D-P   | 0.1856      | 0.42 (1)    |     |
| I-J    | 0.15        | -91.8      | -91.8 0.17 (1) | O-G   | -791        | 0.24 (1)    |     |
| J-K    | 0.28        | -91.8      | -91.8 0.12 (1) | P-E   | -790        | 0.24 (1)    |     |
| S-B    | -262        | 0.0        | 0.0 0.02 (1)   | P-G   | -5          | 0.00 (1)    |     |
| L-J    | -262        | 0.0        | 0.0 0.02 (1)   |       |             |             |     |

|     |        |       |                |       |
|-----|--------|-------|----------------|-------|
| S-R | 0.2678 | -18.5 | -18.5 0.28 (1) | 10.00 |
| R-Q | 0.2822 | -18.5 | -18.5 0.39 (1) | 10.00 |
| Q-P | 0.2822 | -18.5 | -18.5 0.39 (1) | 10.00 |
| P-O | 0.4434 | -18.5 | -18.5 0.60 (1) | 10.00 |
| O-N | 0.2822 | -18.5 | -18.5 0.39 (1) | 10.00 |
| N-M | 0.2822 | -18.5 | -18.5 0.39 (1) | 10.00 |
| M-L | 0.2578 | -18.5 | -18.5 0.37 (1) | 10.00 |

### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2015, ABC 2019  
- PART 9 OF CBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- 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 (1.26")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.24")  
ALLOWABLE DEFL. (TL) = L/360 (1.26")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.45")

CSI: TC=0.51:1.00 (E-G:1), BC=0.80:1.00 (C-P:1), WB=0.74:1.00 (C-S:1), SS=0.25:1.00 (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

AUTOSOLVE HEELS OFF

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

### NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (C) (INPUT = 0.90)  
JSI METAL = 0.76 (C) (INPUT = 1.00)



Structural component only  
DWG# T-2108594

**Tamarack Roof Truss, Burlington**

Version 8.420 S Jan 21 2021 MITek Industries, Inc. Wed Mar 24 07:58:17 2021 Page 1  
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|                    |     |     |      |
|--------------------|-----|-----|------|
| ALL WEBS<br>EXCEPT | 2x3 | DRY | No.2 |
|--------------------|-----|-----|------|

**PLATES** (table is in inches)

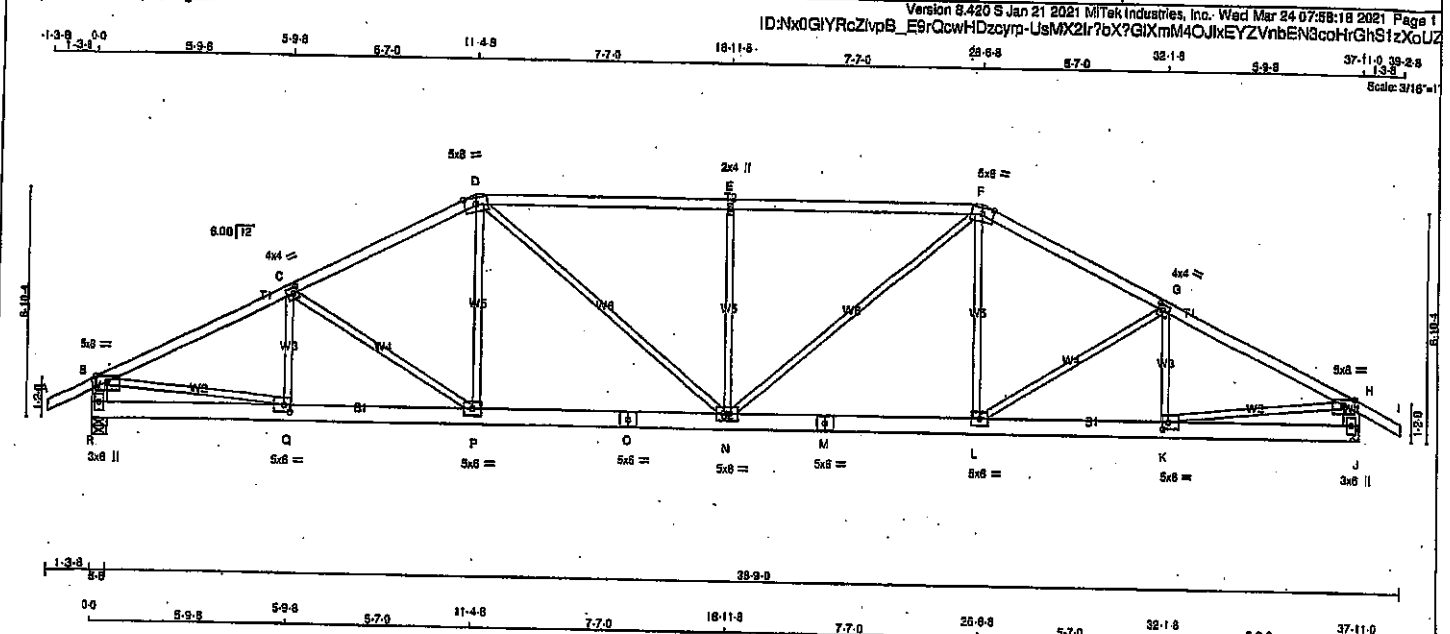
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

A circular professional seal for a Licensed Professional Engineer in the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. The center of the seal features the name "H. J. G. ALVES" and the license number "100009024". Above the name is a handwritten date "03/24/11" and below the name is a handwritten signature.

|     |        |       |       |          |       |
|-----|--------|-------|-------|----------|-------|
| U-T | 0:0    | -18.5 | -18.5 | 0.07 (†) | 10.00 |
| T-S | 0:2800 | -18.5 | -18.5 | 0.39 (†) | 10.00 |
| S-R | 0:2729 | -18.5 | -18.5 | 0.37 (†) | 10.00 |
| R-Q | 0:2729 | -18.5 | -18.5 | 0.37 (†) | 10.00 |
| Q-P | 0:3632 | -18.5 | -18.5 | 0.48 (†) | 10.00 |
| P-O | 0:2728 | -18.5 | -18.5 | 0.37 (†) | 10.00 |
| O-N | 0:2728 | -18.5 | -18.5 | 0.37 (†) | 10.00 |
| N-M | 0:2800 | -18.5 | -18.5 | 0.39 (†) | 10.00 |
| M-L | 0:0    | -18.5 | -18.5 | 0.07 (†) | 10.00 |

JSI GRIP= 0.65 (D) (INPUT = 0.90 )  
JSI METAL= 0.50 (R) (INPUT = 1.00 )

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T61</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



**LUMBER**

N. L. G. A. RULES

| CHORDS          | SIZE | DRY | LUMBER | DESCR. |
|-----------------|------|-----|--------|--------|
| A - D           | 2x4  | DRY | No.2   | SPF    |
| D - F           | 2x4  | DRY | No.2   | SPF    |
| F - I           | 2x4  | DRY | No.2   | SPF    |
| R - B           | 2x6  | DRY | No.2   | SPF    |
| J - H           | 2x6  | DRY | No.2   | SPF    |
| R - O           | 2x6  | DRY | No.2   | SPF    |
| O - M           | 2x6  | DRY | No.2   | SPF    |
| M - J           | 2x6  | DRY | No.2   | SPF    |
| ALL WEBS EXCEPT | 2x3  | DRY | No.2   | SPF    |

DRY: SEASONED LUMBER.

**PLATES (tab's is in inches)**

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

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

NOTES: (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG   |
|----------|-------------------------|---------------------------------|-----------|------------|
| JT       | VERT                    | DOWN                            | UPLIFT    | IN-SX      |
| R        | 2215                    | 0                               | 0         | 5-8        |
| J        | 2215                    | 0                               | 0         | MECHANICAL |

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

**UNFACTORED REACTIONS**

| 1ST LCASE | MAX. MIN. COMPONENT REACTIONS               |
|-----------|---------------------------------------------|
| JT        | COMBINED SNOW LIVE PERM LIVE WIND DEAD SOIL |
| R         | 1564 1040 / 0 0.0 0.0 0.0 524 / 0 0.0       |
| J         | 1564 1040 / 0 0.0 0.0 0.0 524 / 0 0.0       |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.80 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 VERT. LOAD (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
| FR-TO  |                           |                           |                                | FR-TO |                           |                                |                                |
| A-B    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)                 | 10.00 | C-C                       | -318 / 0                       | 0.08 (1)                       |
| B-C    | -3183 / 0                 | -91.8                     | -91.8 0.57 (1)                 | 3.45  | C-P                       | -343 / 0                       | 0.29 (1)                       |
| C-D    | -2916 / 0                 | -91.8                     | -91.8 0.52 (1)                 | 3.63  | P-D                       | 0 / 345                        | 0.08 (1)                       |
| D-E    | -3160 / 0                 | -91.8                     | -91.8 0.93 (1)                 | 2.80  | D-N                       | 0 / 753                        | 0.17 (1)                       |
| E-F    | -3160 / 0                 | -91.8                     | -91.8 0.93 (1)                 | 2.80  | N-E                       | -858 / 0                       | 0.64 (1)                       |
| F-G    | -2916 / 0                 | -91.8                     | -91.8 0.52 (1)                 | 3.63  | N-F                       | 0 / 753                        | 0.17 (1)                       |
| G-H    | -3183 / 0                 | -91.8                     | -91.8 0.57 (1)                 | 3.45  | L-F                       | 0 / 345                        | 0.08 (1)                       |
| H-I    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)                 | 10.00 | L-G                       | -343 / 0                       | 0.29 (1)                       |
| R-B    | -2150 / 0                 | 0.0                       | 0.0 0.14 (1)                   | 6.54  | K-G                       | -318 / 0                       | 0.08 (1)                       |
| J-H    | -2150 / 0                 | 0.0                       | 0.0 0.14 (1)                   | 6.54  | B-Q                       | 0 / 2898                       | 0.65 (1)                       |
|        |                           |                           |                                |       | K-H                       | 0 / 2898                       | 0.65 (1)                       |
| R-Q    | 0 / 0                     | -18.5                     | -18.5 0.08 (4)                 | 10.00 |                           |                                |                                |
| Q-P    | 0 / 2870                  | -18.5                     | -18.5 0.40 (1)                 | 10.00 |                           |                                |                                |
| P-O    | 0 / 2588                  | -18.5                     | -18.5 0.37 (1)                 | 10.00 |                           |                                |                                |
| O-N    | 0 / 2588                  | -18.5                     | -18.5 0.37 (1)                 | 10.00 |                           |                                |                                |
| N-M    | 0 / 2588                  | -18.5                     | -18.5 0.37 (1)                 | 10.00 |                           |                                |                                |
| M-L    | 0 / 2588                  | -18.5                     | -18.5 0.37 (1)                 | 10.00 |                           |                                |                                |
| L-K    | 0 / 2870                  | -18.5                     | -18.5 0.40 (1)                 | 10.00 |                           |                                |                                |
| K-J    | 0 / 0                     | -18.5                     | -18.5 0.08 (4)                 | 10.00 |                           |                                |                                |

**DESIGN CRITERIA**

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

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2015, ABC 2015  
- PART 9 OF CBC 2012 (2015 AMENDMENT)  
- CSA 086-14  
- 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 (1.28")  
CALCULATED VERT. DEFL. (LL) = U/999 (0.18")  
ALLOWABLE DEFL. (TL) = L/360 (1.28")  
CALCULATED VERT. DEFL. (TL) = U/999 (0.34")

CSF: TC=0.98/1.00 (D-E:1), BC=0.40/1.00 (P-Q:1), WB=0.65/1.00 (B-Q:1), SS=0.34/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

| PLATE           | GRIP (DRY) | SHEAR    | SECTION   |
|-----------------|------------|----------|-----------|
|                 | (PSI)      | (PLI)    | (PLI)     |
|                 | MAX MIN    | MAX MIN  | MAX MIN   |
| MT20            | 650 371    | 1747 768 | 1887 1873 |
| PLATE PLACEMENT |            |          |           |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

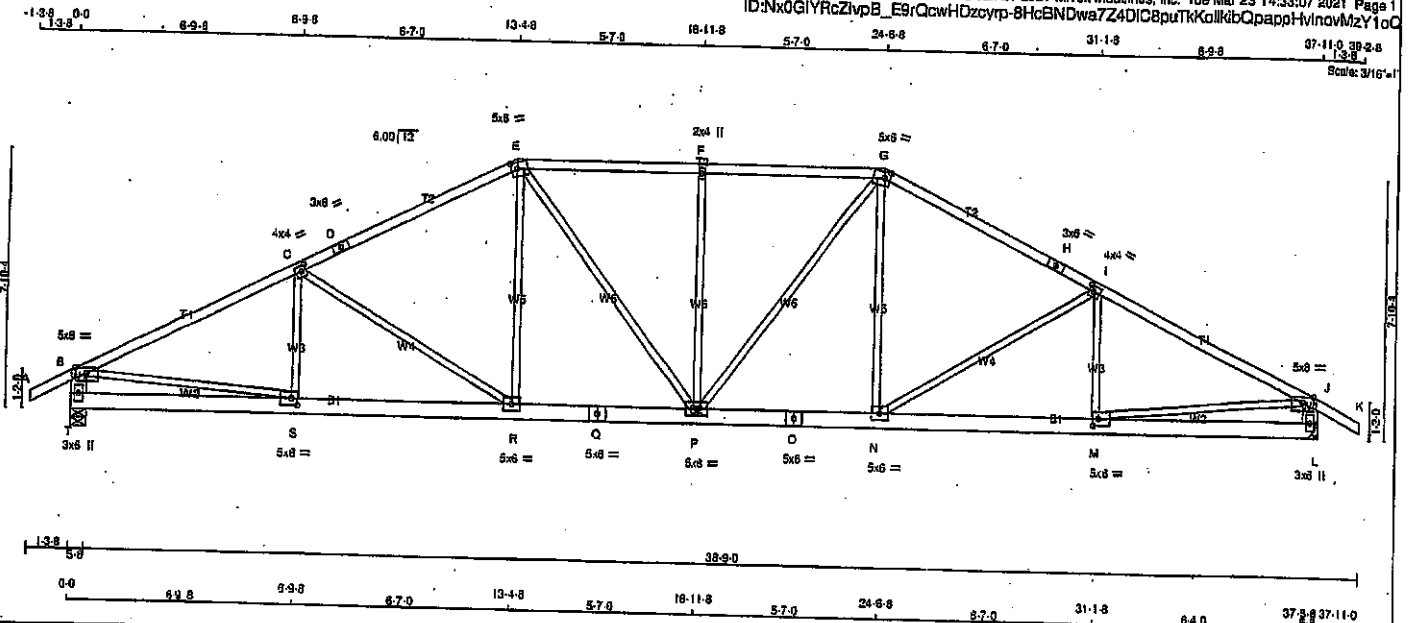
JSI GRIP = 0.88 (F) (INPUT = 0.90)  
JSI METAL = 0.85 (Q) (INPUT = 1.00)



Structural component only  
DWG# T-2108596

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T62</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         |          |

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 ID: NxDGIYRcZlvpB\_E9rQcwHDzcymp-8HcBNDwa7Z4DIC8puTKkalkbQpappHvlnovMzY1oC  
 07-11-0 39-8-8 13-8  
 Scale: 3/16"=1'



| 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   |
| K - L             | 2x4  | DRY    | No.2   |
| L - J             | 2x6  | DRY    | No.2   |
| J - O             | 2x6  | DRY    | No.2   |
| O - P             | 2x6  | DRY    | No.2   |
| P - L             | 2x6  | DRY    | No.2   |
| ALL WEBS          | 2x3  | DRY    | No.2   |
| EXCEPT            |      |        | SPF    |

DRY: SEASONED LUMBER.

| PLATES (Table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMVW-p | MT20   | 5.0 | 8.0 | Edge      |
| C                           | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 1.75 |
| D                           | TS-t   | MT20   | 3.0 | 6.0 |           |
| E                           | TTWV-m | MT20   | 5.0 | 8.0 | 2.25 2.00 |
| F                           | TTWV-w | MT20   | 2.0 | 4.0 |           |
| G                           | TTWV-m | MT20   | 5.0 | 8.0 | 2.25 2.00 |
| 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      |
| L                           | BMV1-p | MT20   | 3.0 | 6.0 |           |
| M                           | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 2.00 |
| N                           | BMVW-t | MT20   | 5.0 | 8.0 |           |
| O                           | BS-t   | MT20   | 5.0 | 8.0 |           |
| P                           | BMVW-t | MT20   | 5.0 | 8.0 |           |
| Q                           | BS-t   | MT20   | 5.0 | 8.0 |           |
| R                           | BMVW-t | MT20   | 5.0 | 8.0 |           |
| S                           | BMVW-t | MT20   | 5.0 | 8.0 | 2.50 2.00 |
| T                           | BMV1-p | MT20   | 3.0 | 6.0 |           |

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

NOTES- (1)  
 1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT  |       | REQ'D      |  |
|----------------|------|------------------|------|--------|-------|------------|--|
| GROSS REACTION |      | GROSS REACTION   |      | BRG    |       | BRG        |  |
| JT VERT        | HORZ | DOWN             | HORZ | UPLIFT | IN-SX | IN-SX      |  |
| T              | 2215 | 0                | 2215 | 0      | 5-8   | 5-8        |  |
| L              | 2215 | 0                | 2215 | 0      | 0     | MECHANICAL |  |

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

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX-MIN. COMPONENT REACTIONS |      |
|----------|----------|------------------------------|------|
| JT       | COMBINED | SNOW                         | LIVE |
| T        | 1564     | 1040                         | 0    |
| L        | 1564     | 1040                         | 0    |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.15 FT.

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS  |                           |                                |          |
|--------|---------------------------|---------------------------|--------------------------------|-------|---------------------------|--------------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1) |          |
| FR-TO  |                           | FROM TO                   |                                | FR-TO |                           |                                |          |
| A-B    | 0/28                      | -91.8                     | -91.8 0.12 (1)                 | 10.00 | S-C                       | -224/36                        | 0.08 (1) |
| B-C    | -3217/0                   | -91.8                     | -91.8 0.81 (1)                 | 3.15  | C-R                       | -565/0                         | 0.72 (1) |
| C-D    | -2748/0                   | -91.8                     | -91.8 0.71 (1)                 | 3.48  | R-E                       | 0/440                          | 0.10 (1) |
| D-E    | -2748/0                   | -91.8                     | -91.8 0.71 (1)                 | 3.48  | E-P                       | 0/436                          | 0.10 (1) |
| E-F    | -2894/0                   | -91.8                     | -91.8 0.47 (1)                 | 3.78  | P-F                       | -626/0                         | 0.68 (1) |
| F-G    | -2894/0                   | -91.8                     | -91.8 0.47 (1)                 | 3.78  | P-G                       | 0/436                          | 0.10 (1) |
| G-H    | -2748/0                   | -91.8                     | -91.8 0.71 (1)                 | 3.48  | N-G                       | 0/440                          | 0.10 (1) |
| H-I    | -2748/0                   | -91.8                     | -91.8 0.71 (1)                 | 3.48  | N-I                       | -565/0                         | 0.72 (1) |
| I-J    | -3217/0                   | -91.8                     | -91.8 0.81 (1)                 | 3.15  | M-I                       | -224/36                        | 0.08 (1) |
| J-K    | 0/28                      | -91.8                     | -91.8 0.12 (1)                 | 10.00 | B-S                       | 0/2925                         | 0.88 (1) |
| T-B    | -2149/0                   | 0.0                       | 0.0 0.14 (1)                   | 6.94  | M-J                       | 0/2925                         | 0.88 (1) |
| L-J    | -2149/0                   | 0.0                       | 0.0 0.14 (1)                   | 6.94  |                           |                                |          |

|     |        |       |                |       |
|-----|--------|-------|----------------|-------|
| T-S | 0/0    | -18.5 | -18.5 0.09 (4) | 10.00 |
| S-R | 0/2806 | -18.5 | -18.5 0.40 (1) | 10.00 |
| R-Q | 0/2433 | -18.5 | -18.5 0.34 (1) | 10.00 |
| Q-P | 0/2433 | -18.5 | -18.5 0.34 (1) | 10.00 |
| P-O | 0/2433 | -18.5 | -18.5 0.34 (1) | 10.00 |
| O-N | 0/2433 | -18.5 | -18.5 0.34 (1) | 10.00 |
| N-M | 0/2806 | -18.5 | -18.5 0.40 (1) | 10.00 |
| M-L | 0/0    | -18.5 | -18.5 0.09 (4) | 10.00 |

TOTAL WEIGHT = 181 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 2015

THIS DESIGN COMPLIES WITH:  
 - PART 9 OF CBC 2015, ABC 2019  
 - PART 9 OF CBC 2012 (2019 AMENDMENT)  
 - CSA 086-14  
 - 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 (1.26")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.16")  
 ALLOWABLE DEFL.(TL) = L/360 (1.26")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TC=0.81/1.00 (B-C:1), BC=0.40/1.00 (R-S:1), WB=0.72/1.00 (C-R:1), SSI=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

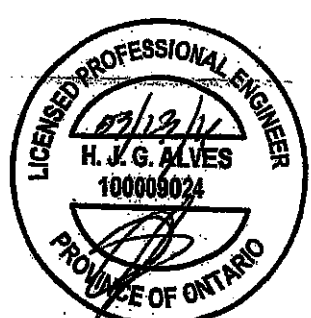
| NAIL VALUES |           |          |           |
|-------------|-----------|----------|-----------|
| PLATE       | GRIP(DRY) | SHEAR    | SECTION   |
| (PSI)       | (PLI)     | (PLI)    | (PLI)     |
| MAX MIN     | MAX MIN   | MAX MIN  | MAX MIN   |
| MT20        | 650 371   | 1747 788 | 1997 1873 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

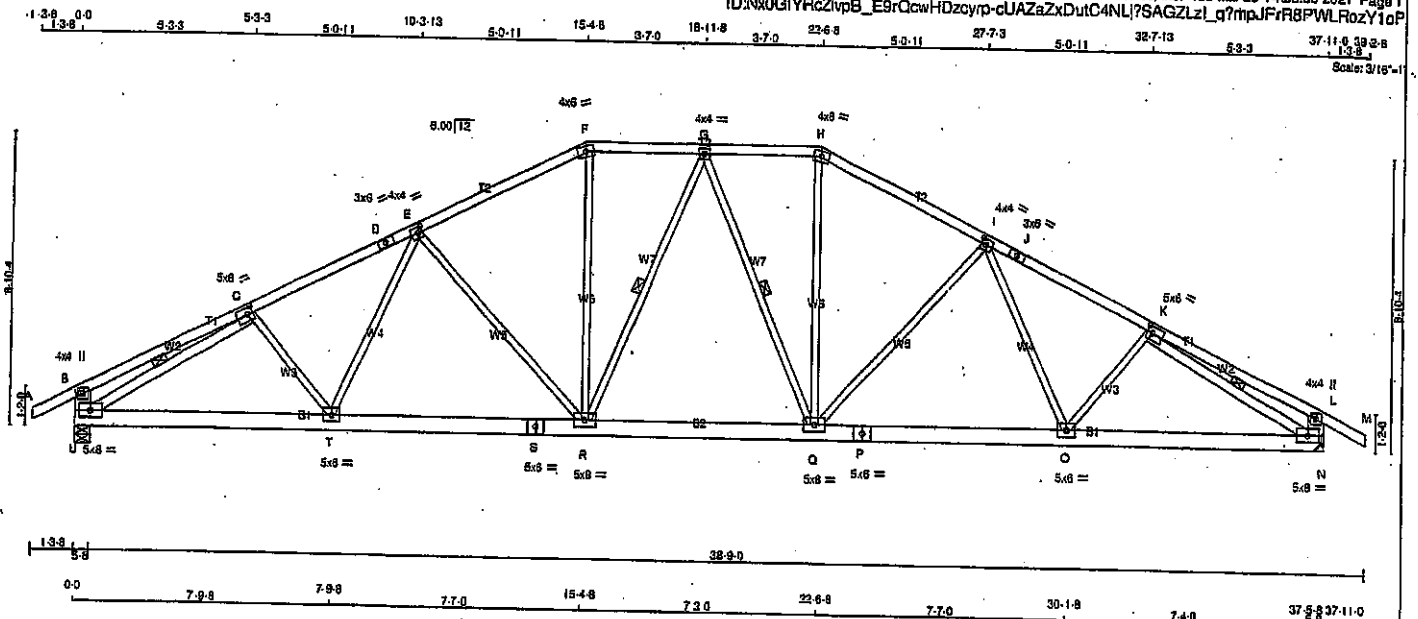
JSI METAL = 0.69 (S) (INPUT = 1.00)



Structural component only  
 DWG# T-2108597

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T63</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |

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ID: Nk0GIYRcZlpB\_E9rQcwHDzcyrp-cUJAZaZxDutC4NL7SAGZLz1\_q7mpJFrR8PWLRozy10P



| CHORDS          | SIZE | LUMBER | DESCR. |
|-----------------|------|--------|--------|
| A - D           | 2x4  | DRY    | No.2   |
| D - F           | 2x4  | DRY    | No.2   |
| F - H           | 2x4  | DRY    | No.2   |
| H - J           | 2x4  | DRY    | No.2   |
| J - M           | 2x4  | DRY    | No.2   |
| U - B           | 2x6  | DRY    | No.2   |
| N - L           | 2x6  | DRY    | No.2   |
| U - S           | 2x6  | DRY    | No.2   |
| S - P           | 2x6  | DRY    | No.2   |
| P - N           | 2x6  | DRY    | No.2   |
| ALL WEBS EXCEPT | 2x3  | DRY    | No.2   |
| U - C           | 2x4  | DRY    | No.2   |
| K - N           | 2x4  | DRY    | No.2   |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| C  | TMVW-1  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| D  | TS-1    | MT20   | 3.0 | 6.0 |      |      |
| E  | TMVW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| F  | TTW-m   | MT20   | 4.0 | 6.0 |      |      |
| G  | TMVW-1  | MT20   | 4.0 | 4.0 |      |      |
| H  | TTW-m   | MT20   | 4.0 | 6.0 |      |      |
| I  | TMVW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.50 |
| J  | TS-1    | MT20   | 3.0 | 6.0 |      |      |
| K  | TMVW-1  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| L  | TMV+p   | MT20   | 4.0 | 4.0 |      |      |
| N  | BMVW1-t | MT20   | 5.0 | 8.0 |      |      |
| O  | BMVW-1  | MT20   | 5.0 | 6.0 |      |      |
| P  | BS-1    | MT20   | 5.0 | 6.0 |      |      |
| Q  | BMVW-1  | MT20   | 5.0 | 8.0 |      |      |
| R  | BMVW-1  | MT20   | 5.0 | 8.0 |      |      |
| S  | BS-1    | MT20   | 5.0 | 6.0 |      |      |
| T  | BMVW-1  | MT20   | 5.0 | 6.0 |      |      |
| U  | BMVW1-t | MT20   | 5.0 | 8.0 |      |      |

#### NOTES- (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

##### BRACINGS

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| U  | 2215           | 0                | 0     | 5-8  |
| N  | 2215           | 0                | 2215  | 0    |

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

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|-----------|------|------|------------|------|------|------|
| U  | 1884      | 1040 | 0    | 0          | 0    | 524  | 0    |
| N  | 1884      | 1040 | 0    | 0          | 0    | 524  | 0    |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.67 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 G-R, G-Q, C-U, K-N.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |               |             |                  | WEBS          |       |               |             |
|--------|---------------|-------------|------------------|---------------|-------|---------------|-------------|
| MEMB.  | MAX. FACTORED | FORCE (LBS) | VERT. LOAD (PLF) | MAX. FACTORED | MEMB. | MAX. FACTORED | FORCE (LBS) |
| FR-TO  |               |             |                  |               | FR-TO |               |             |
| A-B    | 0' 28         | -91.8       | -91.8            | 0.12 (1)      | C-T   | -83 / 44      | 0.03 (1)    |
| B-C    | 0' 19         | -91.8       | -91.8            | 0.30 (1)      | T-E   | 0 / 227       | 0.05 (4)    |
| C-D    | -3087 / 0     | -91.8       | -91.8            | 0.41 (1)      | E-R   | -633 / 0      | 0.80 (1)    |
| D-E    | -3087 / 0     | -91.8       | -91.8            | 0.41 (1)      | R-F   | 0 / 811       | 0.18 (1)    |
| E-F    | -2548 / 0     | -91.8       | -91.8            | 0.37 (1)      | F-G   | -209 / 0      | 0.12 (1)    |
| F-G    | -2288 / 0     | -91.8       | -91.8            | 0.19 (1)      | G-Q   | -209 / 0      | 0.12 (1)    |
| G-H    | -2288 / 0     | -91.8       | -91.8            | 0.19 (1)      | Q-H   | 0 / 811       | 0.18 (1)    |
| H-I    | -2546 / 0     | -91.8       | -91.8            | 0.37 (1)      | H-O   | -633 / 0      | 0.80 (1)    |
| I-J    | -3087 / 0     | -91.8       | -91.8            | 0.41 (1)      | J-O   | 0 / 227       | 0.05 (4)    |
| J-K    | -3087 / 0     | -91.8       | -91.8            | 0.41 (1)      | O-K   | -83 / 44      | 0.03 (1)    |
| K-L    | 0' 19         | -91.8       | -91.8            | 0.30 (1)      | U-C   | -3355 / 0     | 0.81 (1)    |
| L-M    | 0' 28         | -91.8       | -91.8            | 0.12 (1)      | K-N   | -3355 / 0     | 0.81 (1)    |
| U-B    | -319 / 0      | 0.0         | 0.0              | 0.02 (1)      |       |               |             |
| N-L    | -319 / 0      | 0.0         | 0.0              | 0.02 (1)      |       |               |             |
| U-T    | 0 / 2813      | -18.5       | -18.5            | 0.41 (1)      |       |               |             |
| T-S    | 0 / 2873      | -18.5       | -18.5            | 0.37 (1)      |       |               |             |
| S-R    | 0 / 2873      | -18.5       | -18.5            | 0.37 (1)      |       |               |             |
| R-Q    | 0 / 2347      | -18.5       | -18.5            | 0.33 (1)      |       |               |             |
| Q-P    | 0 / 2873      | -18.5       | -18.5            | 0.37 (1)      |       |               |             |
| P-O    | 0 / 2873      | -18.5       | -18.5            | 0.37 (1)      |       |               |             |
| O-N    | 0 / 2813      | -18.5       | -18.5            | 0.41 (1)      |       |               |             |

TOTAL WEIGHT = 190 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 5.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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 (1.28")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.14")  
ALLOWABLE DEFL. (TL) = L/360 (1.28")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.26")

CSI: TC=0.41/1.00 (C-E-1), BC=0.41/1.00 (T-U-1), WB=0.80/1.00 (E-R-1), SS=0.19/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

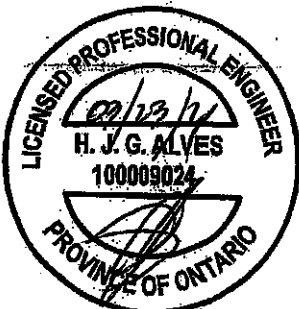
##### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (PSH) | SECTION (PLI) |
|------------------|-------------|---------------|
| MT20             | 850         | 371           |
|                  | 1747        | 788           |
|                  | 1997        | 1873          |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.85 (C) (INPUT = 0.90)  
JSI METAL = 0.75 (C) (INPUT = 1.00)

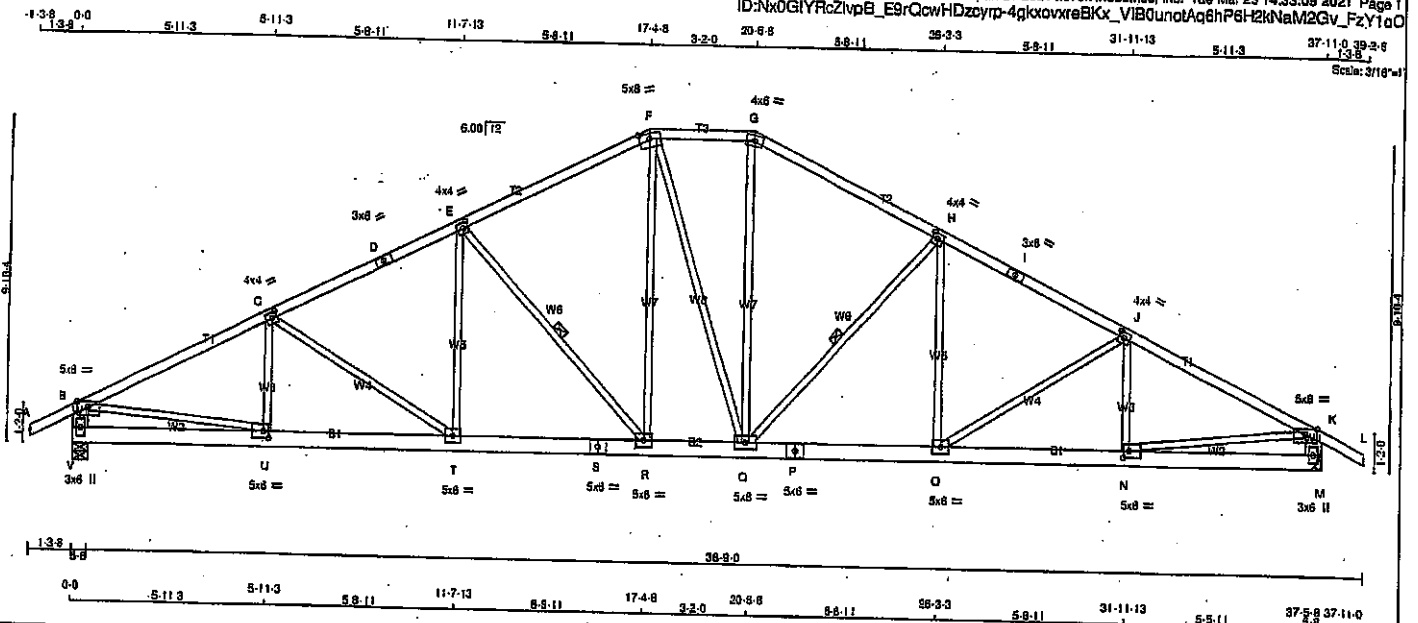


Structural component only  
DWG# T-2108598

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417479   | T64        | 2        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Trusses, Burlington

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ID: NxDGIYRcZlvpB\_E9rCQwHDzcyrp-4gkxovxreBKx\_VIB0undAq6hP6H2kNm2Gv\_FzY1aO



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - D  | 2x4               | DRY    | No.2 | SPF    |        |
| D - F  | 2x4               | DRY    | No.2 | SPF    |        |
| F - G  | 2x4               | DRY    | No.2 | SPF    |        |
| G - I  | 2x4               | DRY    | No.2 | SPF    |        |
| I - L  | 2x4               | DRY    | No.2 | SPF    |        |
| V - B  | 2x6               | DRY    | No.2 | SPF    |        |
| M - K  | 2x6               | DRY    | No.2 | SPF    |        |
| V - S  | 2x6               | DRY    | No.2 | SPF    |        |
| S - P  | 2x6               | DRY    | No.2 | SPF    |        |
| P - M  | 2x6               | DRY    | No.2 | SPF    |        |

ALL WEBS EXCEPT  
2x3 DRY No.2 SPF

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| B                           | TMVW-p  | MT20   | 5.0 | 8.0 | Edge |      |
| C, E, H, J                  |         |        |     |     |      |      |
| C                           | TMVW-l  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D                           | TS-l    | MT20   | 3.0 | 6.0 |      |      |
| F                           | TTW-m   | MT20   | 5.0 | 8.0 | 1.75 | 4.00 |
| G                           | TTW-m   | MT20   | 4.0 | 6.0 |      |      |
| I                           | TS-l    | MT20   | 3.0 | 6.0 |      |      |
| K                           | TMVW-p  | MT20   | 5.0 | 8.0 | Edge |      |
| M                           | BMV-l+p | MT20   | 3.0 | 6.0 |      |      |
| N                           | BMVW-l  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| O, R, T                     |         |        |     |     |      |      |
| O                           | BMVW-l  | MT20   | 5.0 | 6.0 |      |      |
| P                           | SS-l    | MT20   | 5.0 | 6.0 |      |      |
| Q                           | BMVW-l  | MT20   | 5.0 | 6.0 |      |      |
| S                           | SS-l    | MT20   | 5.0 | 6.0 |      |      |
| U                           | BMVW-l  | MT20   | 5.0 | 6.0 | 2.50 | 2.00 |
| V                           | BMV-l+p | MT20   | 3.0 | 6.0 |      |      |

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

NOTES- (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

#### 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  |
| V        | VERT           | HORZ             | DOWN  | HORZ |
| M        | 2215           | 0                | 2215  | 0    |
|          | 2215           | 0                | 2215  | 0    |

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

#### UNFACTORED REACTIONS

| 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |      |            |      |      |
|----------|-------------------------------|------|------|------------|------|------|
| JT       | COMBINED                      | SNOW | LIVE | PERM. LIVE | WIND | DEAD |
| V        | 1584                          | 1040 | 0    | 0          | 0    | 524  |
| M        | 1584                          | 1040 | 0    | 0          | 0    | 524  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.45 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.   | MAX. FACTORED | FORCE | VERT. LOAD | LOI | MAX   | UNBRAC | FR-TO  | MEMB. | MAX. FACTORED | FORCE | MAX |
|--------|---------|---------------|-------|------------|-----|-------|--------|--------|-------|---------------|-------|-----|
|        |         |               |       |            |     |       |        |        |       |               |       |     |
| A-B    | 0.728   | -91.8         | -91.8 | 0.12       | (1) | 10.00 | U-C    | -288.0 | 0.07  | (1)           |       |     |
| B-C    | -3178.0 | -91.8         | -91.8 | 0.58       | (1) | 3.45  | C-T    | -306.0 | 0.28  | (1)           |       |     |
| C-D    | -2913.0 | -91.8         | -91.8 | 0.48       | (1) | 3.70  | T-E    | 0.294  | 0.07  | (1)           |       |     |
| D-E    | -2913.0 | -91.8         | -91.8 | 0.48       | (1) | 3.70  | E-R    | -808.0 | 0.42  | (1)           |       |     |
| E-F    | -2339.0 | -91.8         | -91.8 | 0.45       | (1) | 4.07  | R-F    | 0.659  | 0.15  | (1)           |       |     |
| F-G    | -2085.0 | -91.8         | -91.8 | 0.18       | (1) | 4.57  | F-Q    | 0.724  | 0.01  | (1)           |       |     |
| G-H    | -2347.0 | -91.8         | -91.8 | 0.45       | (1) | 4.06  | Q-G    | 0.685  | 0.15  | (1)           |       |     |
| H-I    | -2910.0 | -91.8         | -91.8 | 0.48       | (1) | 3.70  | O-H    | -793.0 | 0.42  | (1)           |       |     |
| I-J    | -2910.0 | -91.8         | -91.8 | 0.48       | (1) | 3.70  | H-O    | 0.278  | 0.08  | (1)           |       |     |
| J-K    | -3179.0 | -91.8         | -91.8 | 0.58       | (1) | 3.45  | O-J    | -311.0 | 0.27  | (1)           |       |     |
| K-L    | 0.728   | -91.8         | -91.8 | 0.12       | (1) | 10.00 | N-J    | -283.0 | 0.07  | (1)           |       |     |
| V-B    | -2152.0 | 0.0           | 0.0   | 0.14       | (1) | 6.94  | B-U    | 0.2886 | 0.65  | (1)           |       |     |
| M-K    | -2153.0 | 0.0           | 0.0   | 0.14       | (1) | 6.94  | N-K    | 0.2887 | 0.65  | (1)           |       |     |
| V-U    | 0.0     | -18.5         | -18.5 | 0.08       | (4) | 10.00 |        |        |       |               |       |     |
| U-T    | 0.2882  | -18.5         | -18.5 | 0.40       | (1) | 10.00 |        |        |       |               |       |     |
| T-S    | 0.2805  | -18.5         | -18.5 | 0.35       | (1) | 10.00 |        |        |       |               |       |     |
| S-R    | 0.2805  | -18.5         | -18.5 | 0.35       | (1) | 10.00 |        |        |       |               |       |     |
| R-Q    | 0.2078  | -18.5         | -18.5 | 0.29       | (1) | 10.00 |        |        |       |               |       |     |
| Q-P    | 0.2803  | -18.5         | -18.5 | 0.35       | (1) | 10.00 |        |        |       |               |       |     |
| P-O    | 0.2803  | -18.5         | -18.5 | 0.35       | (1) | 10.00 |        |        |       |               |       |     |
| O-N    | 0.2863  | -18.5         | -18.5 | 0.40       | (1) | 10.00 |        |        |       |               |       |     |
| N-M    | 0.0     | -18.5         | -18.5 | 0.08       | (4) | 10.00 |        |        |       |               |       |     |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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) =  $\frac{1}{360}$  (1.28")  
CALCULATED VERT. DEFL.(LL) =  $\frac{1}{999}$  (0.15")  
ALLOWABLE DEFL.(TL) =  $\frac{1}{360}$  (1.28")  
CALCULATED VERT. DEFL.(TL) =  $\frac{1}{999}$  (0.29")

CSI: TC=0.59/1.00 (J-K:1), BC=0.40/1.00 (N-O:1), WB=0.65/1.00 (K-N:1), SS=0.22/1.00 (J-K: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            | 650 371 | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (K) (INPUT = 0.90)  
JSI METAL = 0.85 (N) (INPUT = 1.00)



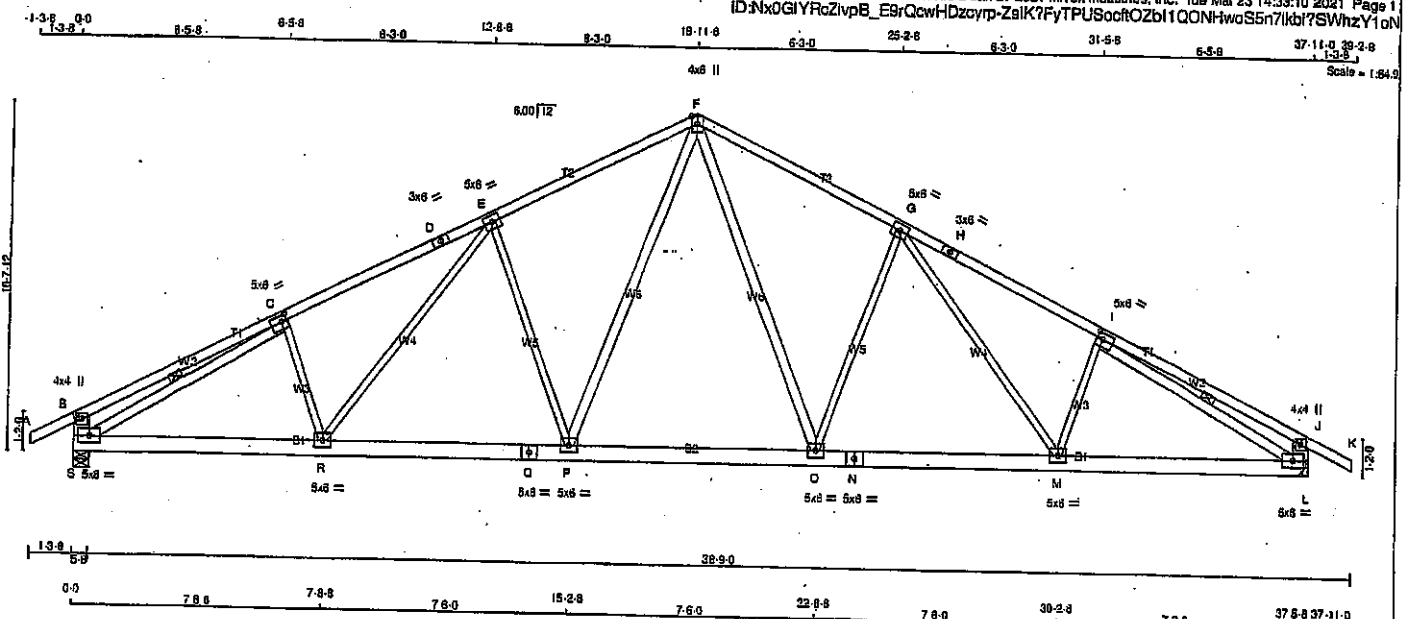
Structural component only  
DWG# T-2108599

|                                                              |                          |                      |                 |                                     |             |          |
|--------------------------------------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417479</b><br>Tamarack Roof Truss, Burlington | TRUSS NAME<br><b>T65</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|--------------------------------------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

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



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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT         | TYPE   | PLATES | W   | LEN | Y    | X    |
|------------|--------|--------|-----|-----|------|------|
| B          | TMV-p  | MT20   | 4.0 | 4.0 |      |      |
| C          | TMWW-t | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| D          | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| E          | TMWW-t | MT20   | 5.0 | 6.0 |      |      |
| F          | TTWW-p | MT20   | 4.0 | 6.0 | Edge |      |
| G          | TMWW-t | MT20   | 5.0 | 6.0 |      |      |
| H          | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| I          | TMWW-t | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| J          | TMV-p  | MT20   | 4.0 | 4.0 |      |      |
| L          | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| M, O, P, R |        |        |     |     |      |      |
| M          | BMWW-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 |      |      |

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

**NOTES-**

(1) Lateral braces to be a minimum of 2x4 SPF #2.

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG  | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|------------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |            |            |
| S  | 2215                    | 0    | 2215                            | 0    | 5-8        | 5-8        |
| L  | 2215                    | 0    | 2215                            | 0    | MECHANICAL |            |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE COMBINED | MAX. MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----|-------------------|-------------------------------|------|------------|------|-------|------|
|    |                   | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| L  | 1584              | 1040.0                        | 0.0  | 0.0        | 0.0  | 524.0 | 0.0  |
| L  | 1584              | 1040.0                        | 0.0  | 0.0        | 0.0  | 524.0 | 0.0  |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.48 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |             |                           |               | WEBS               |       |                  |                       |
|--------|-------------|---------------------------|---------------|--------------------|-------|------------------|-----------------------|
| MEMB.  | FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FORCE (LBS) | FACTORED MAX CS1 (LC) |
| FR-TO  |             | FROM TO                   |               |                    | FR-TO |                  |                       |
| A-B    | 0/28        | -91.8                     | -91.8         | 0.12 (1)           | 10.00 | F-O              | 0/958                 |
| B-C    | 0/24        | -91.8                     | -91.8         | 0.47 (1)           | 10.00 | G-H              | -796/0                |
| C-D    | -3111/0     | -91.8                     | -91.8         | 0.62 (1)           | 3.48  | G-M              | 0/459                 |
| D-E    | -3111/0     | -91.8                     | -91.8         | 0.82 (1)           | 3.48  | M-I              | -257/3                |
| E-F    | -2549/0     | -91.8                     | -91.8         | 0.57 (1)           | 3.50  | P-F              | 0/958                 |
| F-G    | -2549/0     | -91.8                     | -91.8         | 0.57 (1)           | 3.50  | E-P              | -796/0                |
| G-H    | -3111/0     | -91.8                     | -91.8         | 0.82 (1)           | 3.48  | R-E              | 0/459                 |
| H-I    | -3111/0     | -91.8                     | -91.8         | 0.82 (1)           | 3.48  | C-R              | -257/3                |
| I-J    | 0/24        | -91.8                     | -91.8         | 0.47 (1)           | 10.00 | S-C              | -3378/0               |
| J-K    | 0/28        | -91.8                     | -91.8         | 0.12 (1)           | 10.00 | I-L              | -3378/0               |
| S-B    | -381/0      | 0.0                       | 0.0           | 0.02 (1)           | 7.81  |                  |                       |
| L-J    | -381/0      | 0.0                       | 0.0           | 0.02 (1)           | 7.81  |                  |                       |
|        |             |                           |               |                    |       |                  |                       |
| S-R    | 0/2868      | -18.5                     | -18.5         | 0.43 (1)           | 10.00 |                  |                       |
| R-Q    | 0/2520      | -18.5                     | -18.5         | 0.38 (1)           | 10.00 |                  |                       |
| Q-P    | 0/2520      | -18.5                     | -18.5         | 0.38 (1)           | 10.00 |                  |                       |
| P-O    | 0/1928      | -18.5                     | -18.5         | 0.29 (1)           | 10.00 |                  |                       |
| O-N    | 0/2520      | -18.5                     | -18.5         | 0.38 (1)           | 10.00 |                  |                       |
| N-M    | 0/2520      | -18.5                     | -18.5         | 0.38 (1)           | 10.00 |                  |                       |
| M-L    | 0/2868      | -18.5                     | -18.5         | 0.43 (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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 088-14  
- 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 (1.28")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")  
ALLOWABLE DEFL.(TL) = L/360 (1.28")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TO=0.62/1.00 (C-E:1), BC=0.43/1.00 (R-S:1), WS=0.90/1.00 (E-P:1), 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 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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (C) (INPUT = 0.90)  
JSI METAL = 0.77 (C) (INPUT = 1.00)

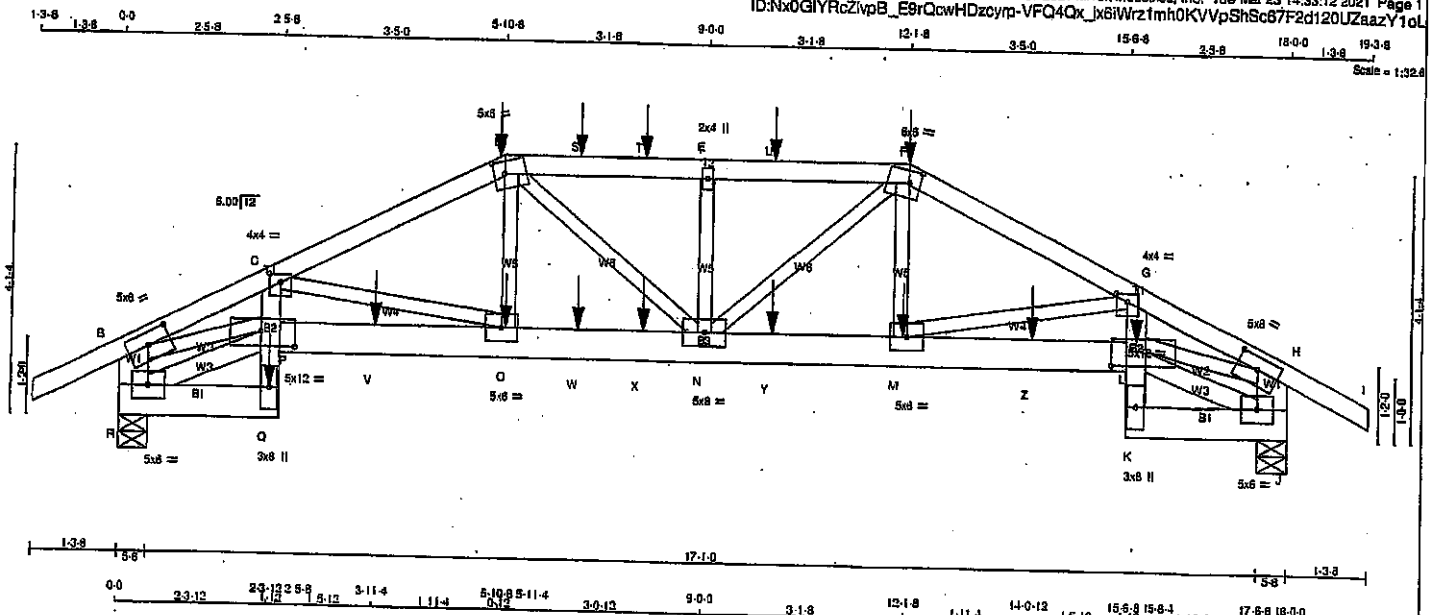


Structural component only  
DWG# T-2108600

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417479   | T66S       | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Trues, Burlington

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#### LUMBER

##### N. L. & 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           | 2x6  | DRY    | No.2   |
| J - H           | 2x6  | DRY    | No.2   |
| R - Q           | 2x6  | DRY    | No.2   |
| Q - C           | 2x4  | DRY    | No.2   |
| P - L           | 2x6  | DRY    | No.2   |
| K - G           | 2x4  | DRY    | No.2   |
| K - J           | 2x6  | DRY    | No.2   |
| ALL WEBS EXCEPT | 2x3  | DRY    | No.2   |
| R - P           | 2x4  | DRY    | No.2   |
| L - J           | 2x4  | DRY    | No.2   |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES  | W    | LEN | Y    | X         |
|---------|---------|------|-----|------|-----------|
| B       | TMVW-t  | MT20 | 5.0 | 8.0  | 2.25 4.00 |
| O       | TMVW-p  | MT20 | 4.0 | 4.0  | 1.50 2.00 |
| D       | TTWW-m  | MT20 | 5.0 | 6.0  | 2.25 2.00 |
| E       | TMVW-w  | MT20 | 2.0 | 4.0  |           |
| F       | TTWW-m  | MT20 | 5.0 | 6.0  | 2.25 2.00 |
| G       | TMVW-p  | MT20 | 4.0 | 4.0  | 1.50 2.00 |
| H       | TMVW-t  | MT20 | 6.0 | 8.0  | 2.25 4.00 |
| J       | BMVW1-t | MT20 | 6.0 | 6.0  |           |
| K       | BMVW-p  | MT20 | 3.0 | 8.0  |           |
| L       | BMVW1-t | MT20 | 5.0 | 12.0 | 2.75 6.25 |
| M       | BMVW-t  | MT20 | 5.0 | 6.0  |           |
| N       | BMVW1-t | MT20 | 5.0 | 8.0  |           |
| O       | BMVW-t  | MT20 | 5.0 | 6.0  |           |
| P       | BMVW1-t | MT20 | 5.0 | 12.0 | 2.75 6.25 |
| Q       | BMVW-p  | MT20 | 3.0 | 8.0  |           |
| R       | BMVW1-t | MT20 | 5.0 | 6.0  |           |

#### NOTES

(1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| BEARINGS |   | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQD BRG |       |
|----------|---|-------------------------|------|---------------------------------|------|-----------|-------|----------|-------|
| JT       | R | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT    | IN-SX | IN-SX    | IN-SX |
|          |   | 1789                    | 0    | 1789                            | 0    | 0         | 5-8   |          | 5-8   |
|          |   | 1778                    | 0    | 1778                            | 0    | 0         | 5-8   |          | 5-8   |

#### UNFACTORED REACTIONS

| BEARINGS | 1ST LOOSE |         | MAX. MIN. COMPONENT REACTIONS |            | WIND  | DEAD    | SOIL  |
|----------|-----------|---------|-------------------------------|------------|-------|---------|-------|
|          | COMBINED  | SNOW    | LIVE                          | PERM. LIVE |       |         |       |
| JT       | 1263      | 842 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 420 / 0 | 0 / 0 |
| R        | 1255      | 838 / 0 | 0 / 0                         | 0 / 0      | 0 / 0 | 417 / 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 = 3.27 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.

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS                 |       |                           |                |          |
|--------|---------------------------|---------------------------|---------------|----------------------|-------|---------------------------|----------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX CSI (I/C) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX' CSI (I/C) |          |
| FR-TO  |                           | FROM                      | TO            |                      | FR-TO |                           |                |          |
| A-B    | 0 / 28                    | -91.8                     | -91.8         | 0.13 (1)             | 10.00 | C-O                       | -1374 / 0      | 0.36 (1) |
| B-C    | -3928 / 0                 | -91.8                     | -91.8         | 0.31 (1)             | 3.27  | D-D                       | 0 / 466        | 0.11 (1) |
| C-D    | -2753 / 0                 | -91.8                     | -91.8         | 0.38 (1)             | 3.80  | D-N                       | 0 / 321        | 0.08 (1) |
| D-S    | -2722 / 0                 | -91.8                     | -91.8         | 0.28 (1)             | 3.91  | N-E                       | -418 / 0       | 0.08 (1) |
| S-T    | -2722 / 0                 | -91.8                     | -91.8         | 0.28 (1)             | 3.91  | N-F                       | 0 / 353        | 0.09 (1) |
| T-E    | -2722 / 0                 | -91.8                     | -91.8         | 0.28 (1)             | 3.91  | M-F                       | 0 / 447        | 0.11 (1) |
| E-U    | -2722 / 0                 | -91.8                     | -91.8         | 0.28 (1)             | 3.91  | M-G                       | -1371 / 0      | 0.38 (1) |
| U-F    | -2722 / 0                 | -91.8                     | -91.8         | 0.28 (1)             | 3.91  | R-P                       | -289 / 0       | 0.04 (1) |
| F-G    | -2726 / 0                 | -91.8                     | -91.8         | 0.36 (1)             | 3.82  | B-P                       | 0 / 3528       | 0.87 (1) |
| G-H    | -3901 / 0                 | -91.8                     | -91.8         | 0.31 (1)             | 3.28  | L-J                       | -287 / 0       | 0.04 (1) |
| H-I    | 0 / 28                    | -91.8                     | -91.8         | 0.13 (1)             | 10.00 | L-H                       | 0 / 3501       | 0.87 (1) |
| R-B    | -1653 / 0                 | 0.0                       | 0.0           | 0.12 (1)             | 7.64  |                           |                |          |
| J-H    | -1643 / 0                 | 0.0                       | 0.0           | 0.12 (1)             | 7.66  |                           |                |          |
|        |                           |                           |               |                      |       |                           |                |          |
| R-Q    | 0 / 265                   | -18.5                     | -18.5         | 0.04 (1)             | 10.00 |                           |                |          |
| Q-P    | 0 / 339                   | 0.0                       | 0.0           | 0.46 (1)             | 10.00 |                           |                |          |
| P-C    | 0 / 603                   | 0.0                       | 0.0           | 0.50 (1)             | 10.00 |                           |                |          |
| P-V    | 0 / 3794                  | -18.5                     | -18.5         | 0.52 (1)             | 10.00 |                           |                |          |
| V-O    | 0 / 3794                  | -18.5                     | -18.5         | 0.52 (1)             | 10.00 |                           |                |          |
| O-W    | 0 / 2480                  | -18.5                     | -18.5         | 0.38 (1)             | 10.00 |                           |                |          |
| W-X    | 0 / 2480                  | -18.5                     | -18.5         | 0.38 (1)             | 10.00 |                           |                |          |
| X-N    | 0 / 2480                  | -18.5                     | -18.5         | 0.38 (1)             | 10.00 |                           |                |          |
| N-Y    | 0 / 2458                  | -18.5                     | -18.5         | 0.37 (1)             | 10.00 |                           |                |          |
| Y-M    | 0 / 2458                  | -18.5                     | -18.5         | 0.37 (1)             | 10.00 |                           |                |          |
| M-Z    | 0 / 3768                  | -18.5                     | -18.5         | 0.51 (1)             | 10.00 |                           |                |          |
| Z-L    | 0 / 3768                  | -18.5                     | -18.5         | 0.51 (1)             | 10.00 |                           |                |          |
| K-L    | 0 / 24                    | 0.0                       | 0.0           | 0.40 (1)             | 10.00 |                           |                |          |
| L-G    | 0 / 601                   | 0.0                       | 0.0           | 0.50 (1)             | 10.00 |                           |                |          |
| K-J    | 0 / 283                   | -18.5                     | -18.5         | 0.04 (1)             | 10.00 |                           |                |          |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8  | -172 | -172 | FRONT | VERT | TOTAL | ---  | C1    |
| F  | 12-1-8  | -172 | -172 | FRONT | VERT | TOTAL | ---  | C1    |
| L  | 15-8-4  | -225 | -225 | FRONT | VERT | TOTAL | ---  | C1    |
| M  | 12-0-12 | -10  | -10  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 5-11-4  | -10  | -10  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 2-6-12  | -225 | -225 | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 7-0-12  | -29  | -29  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 8-0-12  | -29  | -29  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 10-0-12 | -29  | -29  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 3-11-4  | -7   | -7   | FRONT | VERT | TOTAL | ---  | C1    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                  |    |   |      |     |
|------------------|----|---|------|-----|
| 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 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF OBC 2012 (2015 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL. (LL) = L/360 (0.80")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.12")  
ALLOWABLE DEFL. (TL) = L/360 (0.80")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.21")

CSI: TC=0.36/1.00 (C-D:1), BC=0.52/1.00 (O-P:1), WB=0.87/1.00 (B-P:1), SS=0.24/1.00 (O-P:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL = 0.72 (H) (INPUT = 1.00)



Structural component only  
DWG# T-2108601

CONTINUED ON PAGE 2

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417479   | T66S       | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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| SPECIFIED CONCENTRATED LOADS (LBS) |         |     |      |      |       |      |       |      |       |
|------------------------------------|---------|-----|------|------|-------|------|-------|------|-------|
| JT                                 | LOC.    | LC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
| W                                  | 7-0-12  | -10 | -10  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X                                  | 8-0-12  | -10 | -10  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y                                  | 10-0-12 | -10 | -10  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Z                                  | 14-0-12 | -7  | -7   | ---  | FRONT | VERT | TOTAL | ---  | C1    |

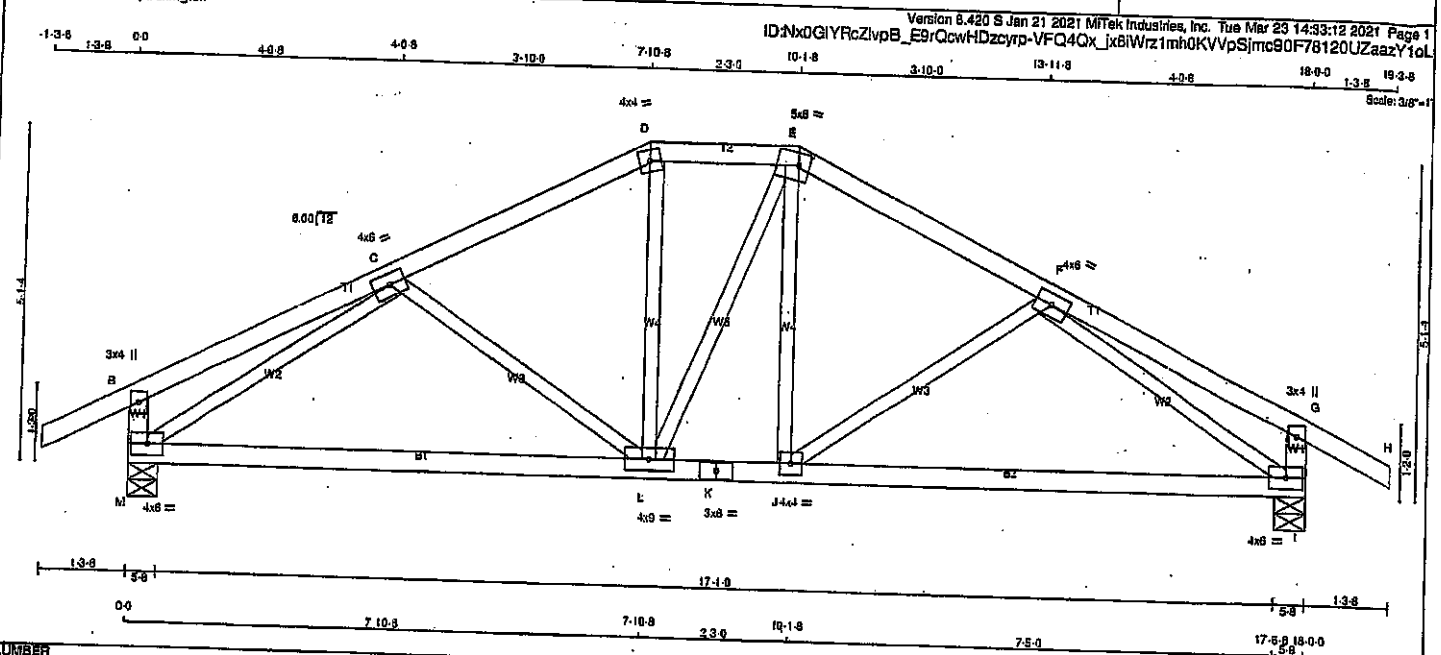
CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGERMechanical CONNECTION IS REQUIRED.



Structural component only  
DWG# T-2108601 *2/1*

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T67</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



#### LUMBER

N. L. & A. RULES

| CHORDS | SIZE | DRY | 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  | TMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| D  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| E  | TTWV-m  | MT20   | 5.0 | 6.0 | 2.25 | 2.00 |
| F  | TMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| G  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| K  | BS-t    | MT20   | 3.0 | 6.0 |      |      |
| L  | BMVWV-t | MT20   | 4.0 | 9.0 |      |      |
| M  | BMVWV-t | MT20   | 4.0 | 6.0 |      |      |

#### NOTES - (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| M  | 1117                    | 0    | 1117                            | 0    | 5-8       | 5-8        |
| I  | 1117                    | 0    | 1117                            | 0    | 5-8       | 5-8        |

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX./MIN. COMPONENT REACTIONS |      |            |      |        |      |
|----------|----------|-------------------------------|------|------------|------|--------|------|
| JT       | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD   | SOIL |
| M        | 787      | 530 '0                        | 0 '0 | 0 '0       | 0 '0 | 257 '0 | 0 '0 |
| I        | 787      | 530 '0                        | 0 0  | 0 '0       | 0 0  | 257 '0 | 0 0  |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.92 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) |       | MAX. CSI (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|---------------------------|---------------------------|-------|---------------|----------------------------|-------|---------------------------|---------------|
|       |                           | FROM                      | TO    |               |                            |       |                           |               |
| A-B   | 0 / 28                    | -91.8                     | -91.8 | 0.12 (1)      | 10.00                      | C-L   | -207 / 0                  | 0.09 (1)      |
| B-C   | 0 / 18                    | -91.8                     | -91.8 | 0.22 (1)      | 10.00                      | L-D   | 0 / 225                   | 0.05 (1)      |
| C-D   | -1080 / 0                 | -91.8                     | -91.8 | 0.18 (1)      | 5.92                       | L-E   | 0 / 2                     | 0.00 (1)      |
| D-E   | -935 / 0                  | -91.8                     | -91.8 | 0.07 (1)      | 8.25                       | J-E   | 0 / 223                   | 0.05 (1)      |
| E-F   | -1059 / 0                 | -91.8                     | -91.8 | 0.18 (1)      | 5.92                       | J-F   | -208 / 0                  | 0.09 (1)      |
| F-G   | 0 / 18                    | -91.8                     | -91.8 | 0.22 (1)      | 10.00                      | M-C   | -1355 / 0                 | 0.52 (1)      |
| G-H   | 0 / 28                    | -91.8                     | -91.8 | 0.12 (1)      | 10.00                      | F-I   | -1354 / 0                 | 0.52 (1)      |
| H-I   | -266 / 0                  | 0.0                       | 0.0   | 0.03 (1)      | 7.81                       |       |                           |               |
| I-G   | -266 / 0                  | 0.0                       | 0.0   | 0.03 (1)      | 7.81                       |       |                           |               |
| M-L   | 0 / 1101                  | -18.5                     | -18.5 | 0.33 (4)      | 10.00                      |       |                           |               |
| L-K   | 0 / 935                   | -18.5                     | -18.5 | 0.33 (4)      | 10.00                      |       |                           |               |
| K-J   | 0 / 935                   | -18.5                     | -18.5 | 0.33 (4)      | 10.00                      |       |                           |               |
| J-I   | 0 / 1100                  | -18.5                     | -18.5 | 0.33 (4)      | 10.00                      |       |                           |               |

TOTAL WEIGHT = 75 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, NBC 2015

#### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.60")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.60")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TO=0.22/1.00 (F-G:1), BC=0.33/1.00 (L-M:4), WB=0.52/1.00 (C-M:1), SS=0.15/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

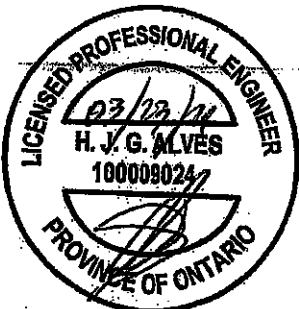
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

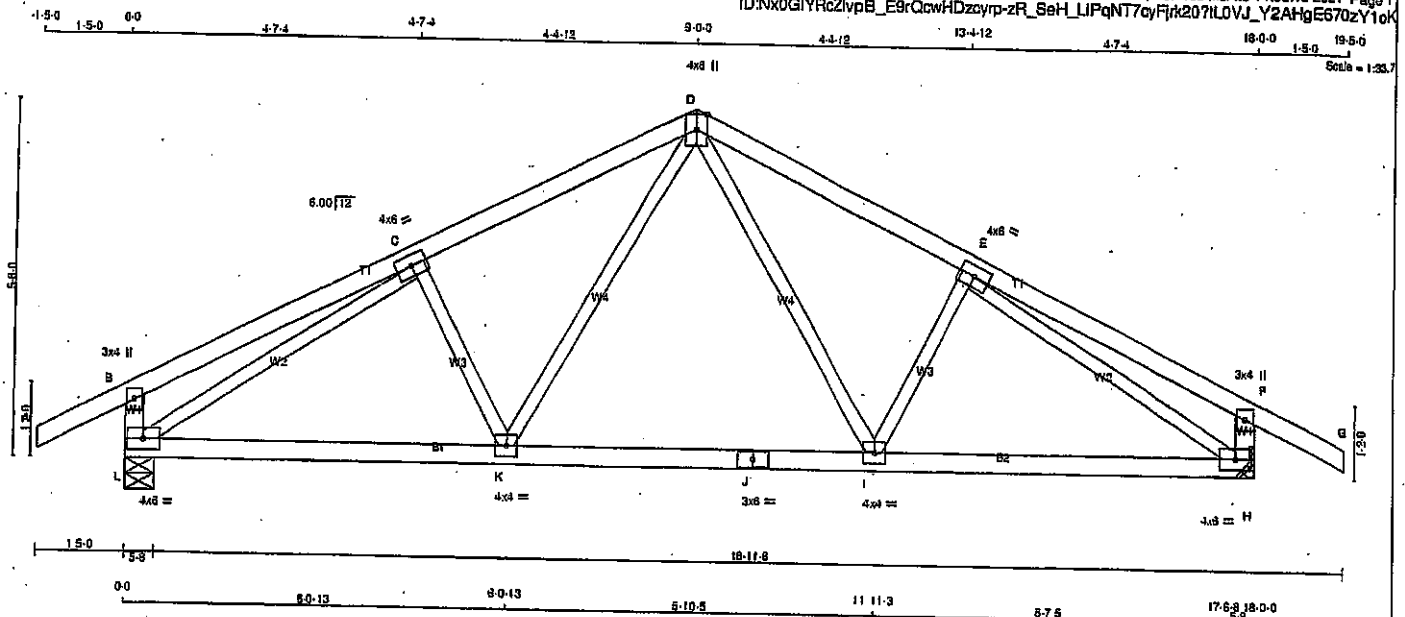
JSI GRIP = 0.89 (K) (INPUT = 0.90)  
JSI METAL = 0.58 (K) (INPUT = 1.00)



Structural component only  
DWG# T-2108602

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T68</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |

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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    |        |
| 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 (table is in inches) | W    | LEN | Y   | X    |
|-----------------------------|------|-----|-----|------|
| JT TYPE                     |      |     |     |      |
| B TMV+p                     | MT20 | 3.0 | 4.0 |      |
| C TMWW-I                    | MT20 | 4.0 | 6.0 |      |
| D TTWW+p                    | MT20 | 4.0 | 6.0 | Edge |
| E TMWW-I                    | MT20 | 4.0 | 6.0 |      |
| F TMV+p                     | MT20 | 3.0 | 4.0 |      |
| H BMWW-I                    | MT20 | 4.0 | 6.0 |      |
| I BMWW-I                    | MT20 | 4.0 | 4.0 |      |
| J BS-I                      | MT20 | 3.0 | 6.0 |      |
| K BMWW-I                    | MT20 | 4.0 | 4.0 |      |
| L BMWW-I                    | MT20 | 4.0 | 6.0 |      |

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

NOTES- (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT      | RECORD |
|----------|----------------|------------------|------------|--------|
| JT       | GROSS REACTION | GROSS REACTION   | BRG        | BRG    |
| L        | VERT           | DOWN             | IN-SX      | IN-SX  |
| H        | 1128 0         | 1128 0           | 5-8        | 5-8    |
|          | 1128 0         | 1128 0           | MECHANICAL |        |

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

#### UNFACTORED REACTIONS

| 1ST LCASE   | MAX/MIN COMPONENT REACTIONS |       |            |      |      |       |     |
|-------------|-----------------------------|-------|------------|------|------|-------|-----|
| JT COMBINED | SNOW                        | LIVE  | PERM. LIVE | WIND | DEAD | SOIL  |     |
| L           | 795                         | 538'0 | 0'0        | 0'0  | 0'0  | 259'0 | 0'0 |
| H           | 795                         | 538'0 | 0'0        | 0'0  | 0'0  | 259'0 | 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 = 5.64 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
|--------|---------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO  |         |                           |                           |                                |                                |                                |                                |
| A-B    | 0'30    | -91.8                     | -91.8                     | 0.14 (1)                       | 10.00                          |                                |                                |
| B-C    | 0'21    | -91.8                     | -91.8                     | 0.29 (1)                       | 10.00                          |                                |                                |
| C-D    | -1163'0 | -91.8                     | -91.8                     | 0.24 (1)                       | 5.64                           |                                |                                |
| D-E    | -1163'0 | -91.8                     | -91.8                     | 0.24 (1)                       | 5.64                           |                                |                                |
| E-F    | 0'21    | -91.8                     | -91.8                     | 0.29 (1)                       | 10.00                          |                                |                                |
| F-G    | 0'30    | -91.8                     | -91.8                     | 0.14 (1)                       | 10.00                          |                                |                                |
| L-B    | -295'0  | 0.0                       | 0.0                       | 0.03 (1)                       | 7.81                           |                                |                                |
| H-F    | -295'0  | 0.0                       | 0.0                       | 0.03 (1)                       | 7.81                           |                                |                                |
| L-K    | 0'1138  | -18.5                     | -18.5                     | 0.28 (1)                       | 10.00                          |                                |                                |
| K-J    | 0'829   | -18.5                     | -18.5                     | 0.22 (4)                       | 10.00                          |                                |                                |
| J-I    | 0'829   | -18.5                     | -18.5                     | 0.22 (4)                       | 10.00                          |                                |                                |
| I-H    | 0'1138  | -18.5                     | -18.5                     | 0.26 (1)                       | 10.00                          |                                |                                |

| WEBS | MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
|------|---------|---------------------------|--------------------------------|
| D-I  | 0'400   | 0.09 (1)                  |                                |
| I-E  | -260'0  | 0.06 (1)                  |                                |
| K-D  | 0'400   | 0.09 (1)                  |                                |
| C-K  | -260'0  | 0.06 (1)                  |                                |
| L-C  | -1383'0 | 0.87 (1)                  |                                |
| E-H  | -1383'0 | 0.87 (1)                  |                                |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2015, ABC 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPC 2014

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

ALLOWABLE DEFL.(LL) = L/360 (0.60")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.60")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.29/1.00 (B-C:1), BC=0.26/1.00 (H-I:1),  
WB=0.67/1.00 (C-L:1), SS=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

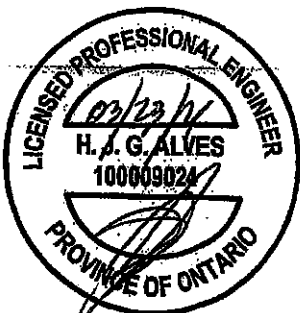
#### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
|       | (PS)      | (PL)  | (PL)    |
|       | MAX       | MIN   | MAX     |
| MT20  | 650       | 371   | 1747    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.79 (E) (INPUT = 0.90)  
JSI METAL = 0.31 (E) (INPUT = 1.00)

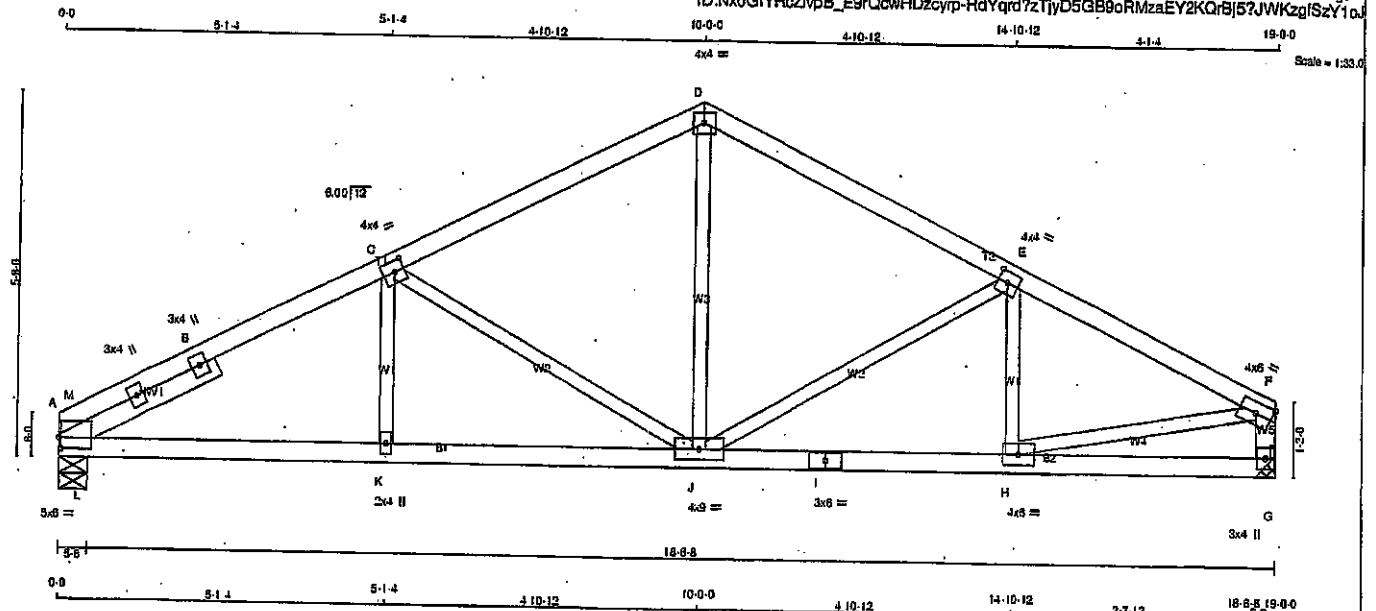


Structural component only  
DWG# T-2108603

|                           |                          |                      |                 |                                     |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b> | TRUSS NAME<br><b>T69</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| TRUSS DESC.               |                          |                      |                 |                                     |          |

Tamarack Roof Truss, Burlington

Version 6.420 5 Jan 21 Mitek Industries, Inc. Tue Mar 23 14:33:14 2021 Page 1  
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#### LUMBER

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

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

##### REINFORCING MEMBERS

|                 |     |          |     |
|-----------------|-----|----------|-----|
| HW1             | 2x4 | DRY No.2 | SPF |
| ALL WEBS EXCEPT | 2x3 | DRY No.2 | SPF |

DRY: SEASONED LUMBER.

##### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| A  | TMBMR1-I | MT20   | 5.0 | 6.0 | 2.00 | 0.25 |
| A  | RT-I     | MT20   | 3.0 | 4.0 |      |      |
| A  | RT-I     | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-I   | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW-p    | MT20   | 4.0 | 4.0 |      |      |
| E  | TMWW-I   | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMVV-I   | MT20   | 4.0 | 6.0 |      | Edge |
| G  | BMV1+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMWW-I   | MT20   | 4.0 | 6.0 |      |      |
| I  | BS-I     | MT20   | 3.0 | 6.0 |      |      |
| J  | BMWW-I   | MT20   | 4.0 | 6.0 |      |      |
| K  | BMWW-I   | MT20   | 2.0 | 4.0 |      |      |

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

##### NOTES - (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

#### 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   |
|----|-------------------------|---------------------------------|-----------|------------|
| A  | VERT 1047               | DOWN 1047                       | 0         | 5-8        |
| G  | HORIZ 1047              | HORIZ 1047                      | 0         | MECHANICAL |

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

##### UNFACTORED REACTIONS

| JT | 1ST LOOSE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|-----------|-------------------------------|------|------|------------|------|-------|------|
| A  | 741       | 488.0                         | 0.0  | 0.0  | 0.0        | 0.0  | 255.0 | 0.0  |
| G  | 741       | 488.0                         | 0.0  | 0.0  | 0.0        | 0.0  | 255.0 | 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 = 5.29 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                | WEBS  |                           |               |  |
|--------|---------------------------|---------------------------|----------------|-------|---------------------------|---------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |                           | FROM TO                   |                | FR-TO |                           |               |  |
| A-M    | -1385.0                   | -91.8                     | -91.8 0.03 (1) | K-C   | 0.95                      | 0.03 (4)      |  |
| M-B    | -1228.0                   | -91.8                     | -91.8 0.21 (1) | C-J   | -550.0                    | 0.30 (1)      |  |
| B-C    | -1228.0                   | -91.8                     | -91.8 0.21 (1) | J-D   | 0.565                     | 0.13 (1)      |  |
| C-D    | -1060.0                   | -91.8                     | -91.8 0.28 (1) | D-E   | -354.0                    | 0.20 (1)      |  |
| D-E    | -1065.0                   | -91.8                     | -91.8 0.28 (1) | E-F   | -177.12                   | 0.03 (1)      |  |
| E-F    | -1361.0                   | -91.8                     | -91.8 0.28 (1) | F-H   | 0.1266                    | 0.28 (1)      |  |
| G-F    | -1013.0                   | 0.0                       | 0.0 0.10 (1)   | L-M   | 0.7805                    | 0.00 (1)      |  |
|        |                           |                           |                | L-B   | -743.0                    | 0.09 (1)      |  |
| A-L    | 0.829                     | -18.5                     | -18.5 0.18 (1) |       |                           |               |  |
| L-K    | 0.1407                    | -18.5                     | -18.5 0.27 (1) |       |                           |               |  |
| K-J    | 0.1407                    | -18.5                     | -18.5 0.28 (1) |       |                           |               |  |
| J-I    | 0.1239                    | -18.5                     | -18.5 0.28 (1) |       |                           |               |  |
| I-H    | 0.1239                    | -18.5                     | -18.5 0.28 (1) |       |                           |               |  |
| H-G    | 0.0                       | -18.5                     | -18.5 0.07 (4) |       |                           |               |  |

TOTAL WEIGHT = 2 X 70 = 141 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | DL = 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 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF NBC 2015, ABC 2019  
- PART 9 OF NBC 2012 (2019 AMENDMENT)  
- CSA S88-14  
- 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 (0.63")  
CALCULATED VERT. DEFL. (LL) = 1/899 (0.04")  
ALLOWABLE DEFL. (TL) = L/360 (0.63")  
CALCULATED VERT. DEFL. (TL) = 1/899 (0.08")

CSI: TC=0.28/1.00 (C-D:1), BC=0.29/1.00 (J-K:1),  
WB=0.30/1.00 (C-J:1), SS=0.19/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR (PLI) | SECTION (PLI) |
|------------------|-------------|---------------|
| MAX MIN          | MAX MIN     | MAX MIN       |
| MT20             | 650 371     | 1747 788      |

PLATE PLACEMENT TOL = 0.250 inches

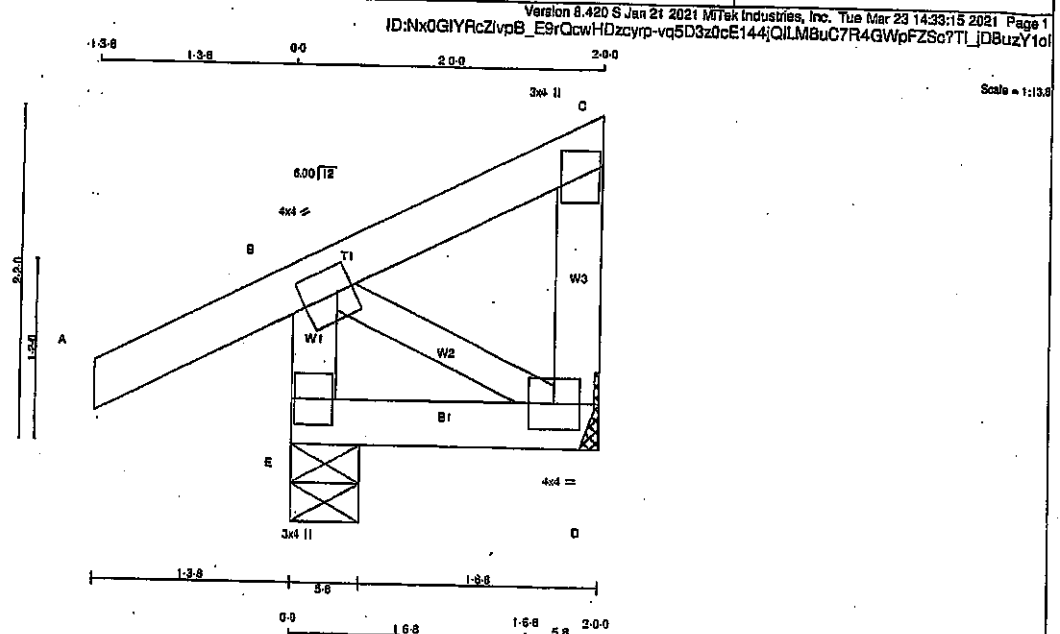
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.79 (H) (INPUT = 0.80)  
JSI METAL=0.50 (A) (INPUT = 1.00)



Structural component only  
DWG# T-2108604

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T70</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



#### LUMBER

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

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

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

#### DESOR.

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

#### 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  | 235                     | 0    | 235                             | 0    | 5-8             | 5-8            |
| D  | 110                     | 0    | 110                             | 0    | MECHANICAL      |                |

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

#### UNFACTORED REACTIONS

| 1ST LOASE |          | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|-----------|----------|-------------------------------|------|------------|------|------|------|
| JT        | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| E         | 184      | 121 0                         | 0 0  | 0 0        | 0 0  | 43 0 | 0 0  |
| D         | 78       | 51 0                          | 0 0  | 0 0        | 0 0  | 27 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 = 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) | LC1 MAX CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO  |                           | FROM TO                   |                  |                      | FR-TO |                           |              |
| E-B    | -216 0                    | 0.0                       | 0.0 0.02 (1)     | 7.81                 | B-D   | 0 0                       | 0.00 (1)     |
| A-B    | 0 28                      | -91.8                     | -91.8 0.12 (1)   | 10.00                |       |                           |              |
| B-C    | 0 0                       | -91.8                     | -91.8 0.08 (1)   | 10.00                |       |                           |              |
| D-C    | -92 0                     | 0.0                       | 0.0 0.01 (1)     | 7.81                 |       |                           |              |
| E-D    | 0 0                       | -18.5                     | -18.5 0.02 (4)   | 10.00                |       |                           |              |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 10 = 21 lb (M)

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 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. (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 (B-D:1), SS=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE GRIP (DRY) (PSI) | SHEAR (PL) (PLI) | SECTION (PLI) |
|------------------------|------------------|---------------|
| MAX MIN                | MAX MIN          | MAX MIN       |
| MT20                   | 650 371          | 1747 788      |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.13 (B) (INPUT = 0.80)  
JSI METAL = 0.03 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2108605

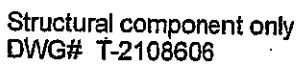
Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue Mar 23 14:33:15 2021 Page 1  
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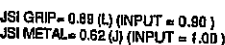


TOTAL WEIGHT = 74 lb  
[M]

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



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|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>417479              | TRUSS NAME<br>T72 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   | TRUSS DESC.   |          |                              |          |

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ID:1X0GIYRcZlvB E9rQcwHDzcvr-N0fbG1E?KCxKaKXwsPRfdM DPMBiQczeSmlLzY1oH

**PLATES (table is in inches)**

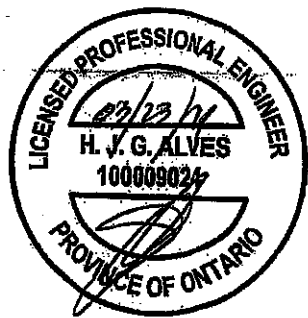
| JT | TYPE     | PLATES | W    | LEN  | Y    | X    |
|----|----------|--------|------|------|------|------|
| B  | TMVW-p   | MT20   | 6.0  | 9.0  | Edge |      |
| C  | TMWW-I   | MT20   | 4.0  | 4.0  | 2.00 | 1.25 |
| D  | TTW-m    | MT20   | 5.0  | 6.0  |      |      |
| E  | TTW-m    | MT20   | 5.0  | 6.0  |      |      |
| F  | TMVW-I   | MT20   | 4.0  | 4.0  | 2.00 | 1.25 |
| G  | TMVW-p   | MT20   | 6.0  | 9.0  | Edge |      |
| I  | BMV-I    | MT20   | 6.0  | 12.0 | Edge | 0.50 |
| J  | BMWW-I   | MT20   | 6.0  | 9.0  | 5.50 | 3.50 |
| K  | BMWWWW-m | MT20   | 10.0 | 12.0 | 6.50 | 6.00 |
| L  | BMWW-I   | MT20   | 6.0  | 9.0  | 5.50 | 3.50 |
| M  | BMV-I    | MT20   | 6.0  | 12.0 | 7.25 |      |

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

NOTES: (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

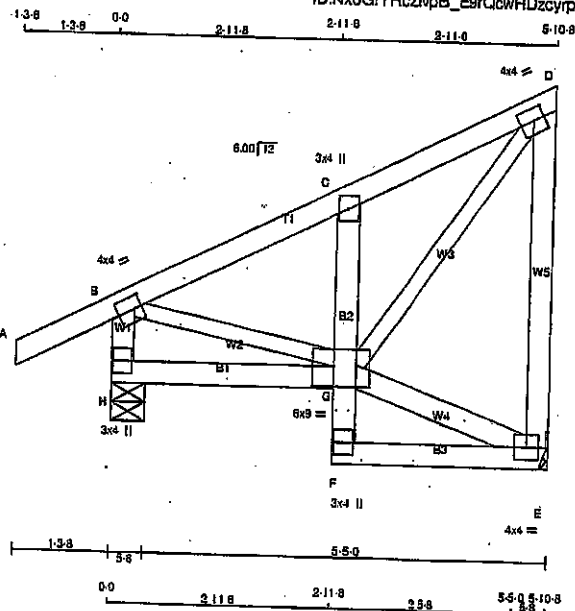
**CONNECTION REQUIREMENTS**

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



Structural component only  
DWG# T-2108607 *en*

|                                 |                           |                      |                 |                                     |          |
|---------------------------------|---------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T73S</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                           |                      |                 |                                     |          |



Scale = 1:25.3

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

DRY: SEASONED LUMBER.

**PLATES (table in inches)**

| JT TYPE   | PLATES | W.  | LEN | Y    | X    |
|-----------|--------|-----|-----|------|------|
| B TMVW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C TMV-p   | MT20   | 3.0 | 4.0 |      |      |
| D TMVW-1  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| E BMVW-1  | MT20   | 4.0 | 4.0 |      |      |
| F BMV-p   | MT20   | 3.0 | 4.0 |      |      |
| G BVWVW-1 | MT20   | 6.0 | 9.0 | 3.25 | 3.50 |
| H BMV1-p  | MT20   | 3.0 | 4.0 |      |      |

**NOTES (1)**

1) Lateral braces to be a minimum of 2X4 SPF #2.

**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        | BRG | BRG  | BRG |
| H        | 448  | 0              | 448  | 0                | 0    | 5-8        | 5-8 | 5-8  | 5-8 |
| E        | 324  | 0              | 324  | 0                | 0    | MECHANICAL |     |      |     |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
|----|----------|-------------------------------|------|------|------------|------|------|------|
| H  | 315      | 220.0                         | 0.0  | 0.0  | 0.0        | 0.0  | 95.0 | 0.0  |
| E  | 229      | 150.0                         | 0.0  | 0.0  | 0.0        | 0.0  | 79.0 | 0.0  |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                  | WEBS  |                           |                                |                  |
|--------|---------------------------|---------------------------|------------------|-------|---------------------------|--------------------------------|------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) |
| FR-TO  |                           | FROM                      | TO               | FR-TO |                           | FROM                           | TO               |
| H-B    | -420.0                    | 0.0                       | 0.0 0.04 (1)     | B-G   | 0.247                     | 0.05 (1)                       |                  |
| A-B    | 0.29                      | -91.8                     | -91.8 0.12 (1)   | G-E   | -18.0                     | 0.00 (1)                       |                  |
| B-C    | -253.0                    | -91.8                     | -91.8 0.12 (1)   | G-D   | 0.378                     | 0.08 (1)                       |                  |
| C-D    | -282.0                    | -91.8                     | -91.8 0.12 (1)   |       |                           |                                |                  |
| E-D    | -292.0                    | 0.0                       | 0.0 0.13 (1)     |       |                           |                                |                  |
|        |                           |                           |                  |       |                           |                                |                  |
| H-G    | 0.0                       | -18.5                     | -18.5 0.05 (4)   |       |                           |                                |                  |
| F-G    | 0.29                      | 0.0                       | 0.0 0.03 (1)     |       |                           |                                |                  |
| G-C    | -322.0                    | 0.0                       | 0.0 0.03 (1)     |       |                           |                                |                  |
| F-E    | 0.17                      | -18.5                     | -18.5 0.04 (4)   |       |                           |                                |                  |

TOTAL WEIGHT = 3 X 34 = 102 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 2015

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/599 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.13/1.00 (D-E:1), BC=0.05/1.00 (G-H:4), WB=0.08/1.00 (D-G:1), SS=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

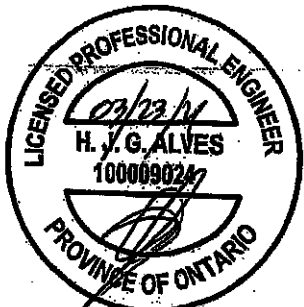
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

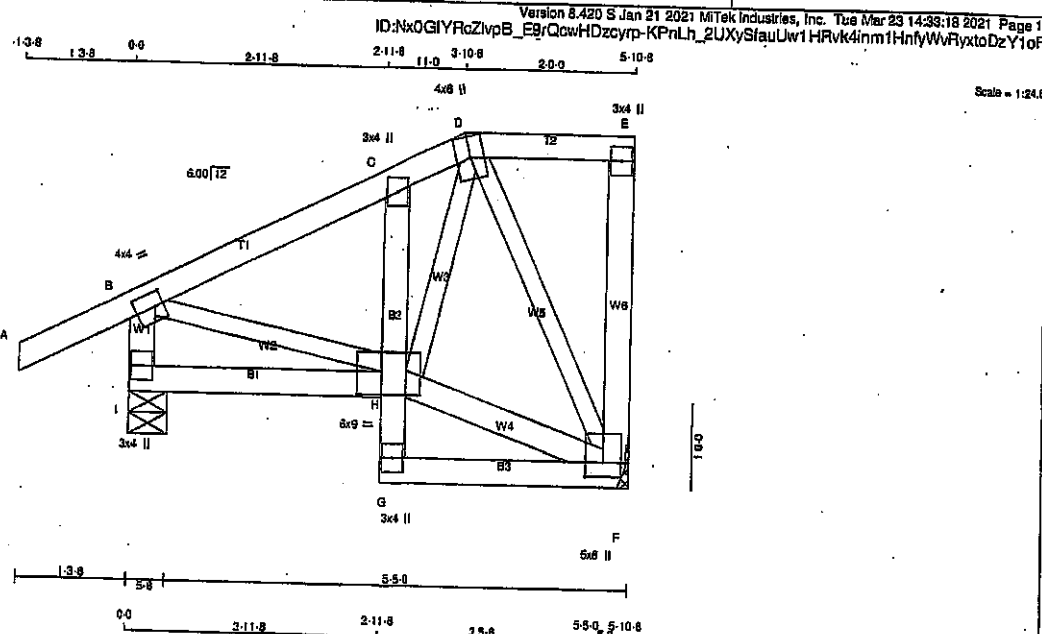
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.40 (B) (INPUT = 0.80)  
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2108608

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T74</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         |          |



**LUMBER**

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE       | PLATES | W   | LEN | Y    | X    |
|----|------------|--------|-----|-----|------|------|
| B  | TMVW-I     | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| C  | TMVW-p     | MT20   | 3.0 | 4.0 |      |      |
| D  | TTWVW+m    | MT20   | 4.0 | 6.0 |      |      |
| E  | TMVW-p     | MT20   | 3.0 | 4.0 |      |      |
| F  | BMVWVW-I+p | MT20   | 5.0 | 5.0 | 2.00 | 2.50 |
| G  | BMVW-p     | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVWVW-I   | MT20   | 6.0 | 9.0 | 3.25 | 3.50 |
| I  | BMVW-I+p   | MT20   | 3.0 | 4.0 |      |      |

**NOTES:** (1)  
1) Lateral braces to be a minimum of 2x4 SPF #2.

**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 | 324            | 0                | 0     | 0      |
| F       | 324            | 0                | 0     | 0      |
| I       | 448            | 0                | 0     | 0      |

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

**UNFACTORED REACTIONS**

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |      |            |      |      |      |
|----|----------|-------------------------------|------|------------|------|------|------|
|    | COMBINED | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD | SOIL |
| JT | 229      | 150                           | 0    | 0          | 0    | 79   | 0    |
| F  | 315      | 220                           | 0    | 0          | 0    | 95   | 0    |

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

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

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

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

| CHORDS |                           |                           |                                             | WEBS  |                           |                                             |  |
|--------|---------------------------|---------------------------|---------------------------------------------|-------|---------------------------|---------------------------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED LC1 MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED LC1 MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           |                           |                                             | FR-TO |                           |                                             |  |
| A-B    | 0/28                      | -91.8                     | -91.8 0.12 (1)                              | H-F   | 0/121                     | 0.02 (1)                                    |  |
| B-C    | -248/0                    | -91.8                     | -91.8 0.10 (1)                              | H-D   | 0/314                     | 0.07 (1)                                    |  |
| C-D    | -274/0                    | -91.8                     | -91.8 0.09 (1)                              | D-F   | -280/0                    | 0.08 (1)                                    |  |
| D-E    | 0/0                       | -91.8                     | -91.8 0.08 (1)                              | B-H   | 0/237                     | 0.05 (1)                                    |  |
| F-E    | -90/0                     | 0.0                       | 0.0 0.02 (1)                                |       |                           |                                             |  |
| I-B    | -120/0                    | 0.0                       | 0.0 0.04 (1)                                |       |                           |                                             |  |
| I-H    | 0/0                       | -18.5                     | -18.5 0.05 (4)                              |       |                           |                                             |  |
| G-H    | 0/29                      | 0.0                       | 0.0 0.02 (1)                                |       |                           |                                             |  |
| H-C    | -270/0                    | 0.0                       | 0.0 0.02 (1)                                |       |                           |                                             |  |
| G-F    | 0/15                      | -18.5                     | -18.5 0.04 (4)                              |       |                           |                                             |  |

**DESIGN CRITERIA**

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

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

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CSI: TC=0.12/1.00 (A-B:1), BC=0.05/1.00 (H-F:4), WB=0.08/1.00 (D-F: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.

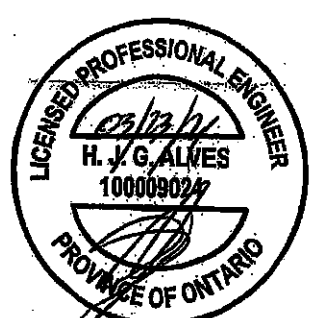
**NAIL VALUES**

| PLATE GRIP (DRY) | SHEAR (PL) | SECTION (PL) |
|------------------|------------|--------------|
| MAX MIN          | MAX MIN    | MAX MIN      |
| MT20             | 650 371    | 1747 788     |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.38 (B) (INPUT = 0.90)  
JSI METAL = 0.12 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2108609





|                           |                          |                      |                 |                                     |             |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417479</b> | TRUSS NAME<br><b>T76</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue Mar 23 14:33:20 2021 Page 2  
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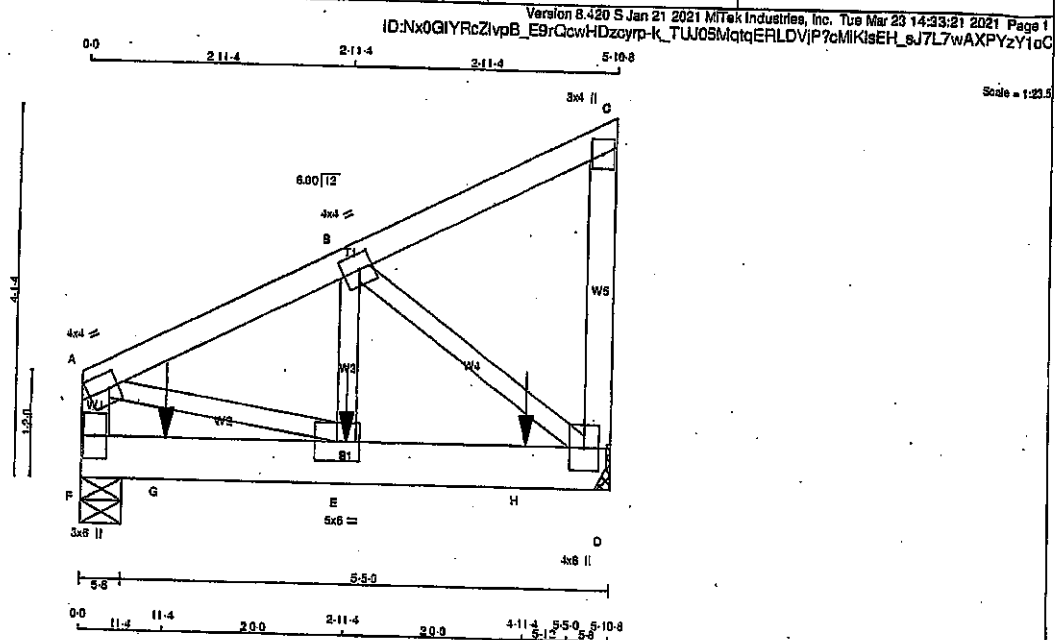
| PLATES (table is in inches) |        |        |     |     |     |
|-----------------------------|--------|--------|-----|-----|-----|
| JT                          | TYPE   | PLATES | W   | LEN | Y X |
| F                           | BMV1+p | MT20   | 3.0 | 6.0 |     |

NOTES- (1)  
 1) Lateral braces to be a minimum of 2x4 SPF #2.



Structural component only  
 DWG# T-2108611 *W*

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>T77</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



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

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

| CHORDS #ROWS                            | SURFACE SPACING (IN) | LOAD (PLF) |
|-----------------------------------------|----------------------|------------|
| TOP CHORDS: (0.122"x3") SPIRAL NAILS    |                      |            |
| F - A                                   | 12                   | TOP        |
| A - C                                   | 12                   | TOP        |
| C - D                                   | 12                   | TOP        |
| BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS |                      |            |
| F - D                                   | 12                   | SIDE (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 PLYS 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                           | TMW-1   | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| B                           | TMW-1   | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| C                           | TMW-1   | MT20   | 3.0 | 4.0 |      |      |
| D                           | BMW-1   | MT20   | 4.0 | 6.0 |      |      |
| E                           | BMW-1   | MT20   | 6.0 | 6.0 |      |      |

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

| BEARINGS | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----------|----------------|------------------|-------|------|
|          | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT       | VERT           | HORZ             | DOWN  | HORZ |
| F        | 742            | 0                | 742   | 0    |
| D        | 694            | 0                | 694   | 0    |

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|----------|-------------------------------|------|------|------------|------|-------|------|
| F  | 517      | 381.0                         | 0.0  | 0.0  | 0.0        | 0.0  | 137.0 | 0.0  |
| D  | 484      | 354.0                         | 0.0  | 0.0  | 0.0        | 0.0  | 130.0 | 0.0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1      | MAX. UNBRACED LENGTH | MEMB. | WEBS   | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|--------|---------------------------|------------------|----------|----------------------|-------|--------|---------------------------|---------------|
| F-A   | -551.0 | 0.0                       | 0.0              | 0.03 (1) | 7.81                 | A-E   | 0.604  | 0.07 (1)                  |               |
| A-B   | -639.0 | -91.8                     | -91.8            | 0.07 (1) | 6.25                 | E-B   | 0.410  | 0.05 (1)                  |               |
| B-C   | -13.0  | -91.8                     | -91.8            | 0.06 (1) | 6.25                 | B-D   | -734.0 | 0.09 (1)                  |               |
| D-C   | -108.0 | 0.0                       | 0.0              | 0.01 (1) | 7.81                 |       |        |                           |               |
| F-G   | 0.0    | -18.5                     | -18.5            | 0.08 (1) | 10.00                |       |        |                           |               |
| G-E   | 0.0    | -18.5                     | -18.5            | 0.08 (1) | 10.00                |       |        |                           |               |
| E-H   | 0.7594 | -18.5                     | -18.5            | 0.08 (1) | 10.00                |       |        |                           |               |
| H-D   | 0.7594 | -18.5                     | -18.5            | 0.08 (1) | 10.00                |       |        |                           |               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| E  | 2-11-4 | 239  | -239 | ---  | TOP  | VERT | TOTAL | ---  | C1    |
| G  | 11-4   | -177 | -177 | ---  | TOP  | VERT | TOTAL | ---  | C1    |
| H  | 4-11-4 | -128 | -128 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 lb

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |           |     |
|------------|-----------|-----|
| TOP CH.    | LL = 25.6 | PSF |
| 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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.20")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.01")

CSI: TC=0.07/1.00 (A-B:1), BC=0.08/1.00 (D-E:1), WB=0.09/1.00 (B-D:1), SS=0.08/1.00 (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.

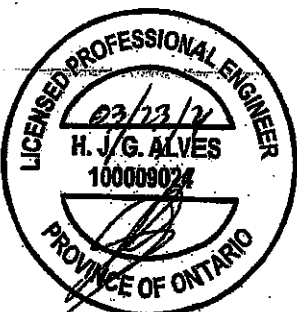
#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.50 (A) (INPUT = 0.90)  
JSI METAL = 0.13 (D) (INPUT = 1.00)



Structural component only  
DWG# T-2108612

CONTINUED ON PAGE 2

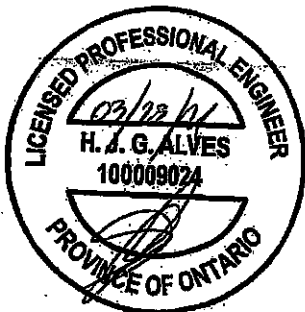
|                                 |                   |               |          |                              |             |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|-------------|----------|
| JOB NAME<br>417479              | TRUSS NAME<br>T77 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | TRUSS DESC. | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                              |             |          |

PLATES (table is in inches)

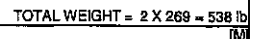
| JT TYPE | PLATES | W    | LEN | Y   | X |
|---------|--------|------|-----|-----|---|
| F       | BMV1+p | MT20 | 3.0 | 6.0 |   |

NOTES- (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

Version 8.420 8 Jan 21 2021 Mittek Industries, Inc. Tue Mar 23 14:33:21 2021 Page 2  
ID:Nx0GIYRcZlvpB E9rQcwHDzcvr-k TUJ05MataERLDVIP?cMIKIsEH sJ7L7wAXPYzY1oG



Structural component only  
DWG# T-2108612 *ML*



CONTINUED ON PAGE 2

| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
|---------------------------------|------------|----------|-----|-----------------|----------|
| 424915                          | T80        | 1        | 2   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

Version 8.530 S Feb 23 2022 MitTek Industries, Inc. Thu Mar 10 16:43:54 2022 Page 2

ID:Nx0GIYRcZlvB E9rQcwHDzcvr-OgghoIyWQv08banYzf8hWp4UCIRUoAzhOcvatzcHDZ

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMBMW-1 | MT20   | 6.0 | 7.0  | 2.50 |      |
| C  | TMWW-t  | MT20   | 5.0 | 6.0  | 3.00 | 2.00 |
| D  | TTWW-m  | MT20   | 8.0 | 9.0  | 4.00 | 1.75 |
| E  | TMWW-t  | MT20   | 5.0 | 6.0  |      |      |
| F  | TS-t    | MT20   | 5.0 | 6.0  |      |      |
| G  | TMW-w   | MT20   | 3.0 | 8.0  |      |      |
| H  | TMWW-t  | MT20   | 4.0 | 6.0  |      |      |
| I  | TMW-w   | MT20   | 3.0 | 8.0  |      |      |
| J  | TS-t    | MT20   | 5.0 | 6.0  |      |      |
| K  | TMWW-1  | MT20   | 5.0 | 6.0  |      |      |
| L  | TTWW-m  | MT20   | 8.0 | 9.0  | 4.00 | 1.75 |
| M  | TMWW-t  | MT20   | 5.0 | 6.0  | 3.00 | 2.00 |
| N  | TMBMW-1 | MT20   | 6.0 | 7.0  | 2.50 | 4.00 |
| P  | BMWW-1  | MT20   | 5.0 | 6.0  |      |      |
| Q  | BMWW-1  | MT20   | 5.0 | 6.0  | 2.50 | 2.25 |
| R  | BS-t    | MT20   | 6.0 | 7.0  |      |      |
| S  | BMWW-t  | MT20   | 6.0 | 10.0 |      |      |
| T  | BMWW-t  | MT20   | 6.0 | 10.0 |      |      |
| U  | BS-t    | MT20   | 6.0 | 7.0  |      |      |
| V  | BMWW-1  | MT20   | 5.0 | 6.0  | 2.50 | 2.25 |
| W  | BMWW-1  | MT20   | 5.0 | 6.0  |      |      |

#### NOTES- (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

#### LOADING

TOTAL LOAD CASES: (18)

| CHORDS |                           |                           |                   | WEBS                      |       |                           |               |
|--------|---------------------------|---------------------------|-------------------|---------------------------|-------|---------------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. CSI (LC) | MAX. UNBRAC. LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           |                           |                   |                           |       |                           |               |
| AO-AR  | -1636 / 7102              | -39.5                     | -39.5             | 0.21 (2)                  |       |                           | 6.25          |
| AR-V   | -1636 / 7102              | -39.5                     | -39.5             | 0.21 (2)                  |       |                           | 6.25          |
| V-U    | -2846 / 11857             | -39.5                     | -39.5             | 0.34 (2)                  |       |                           | 6.25          |
| U-AS   | -2846 / 11857             | -39.5                     | -39.5             | 0.34 (2)                  |       |                           | 6.25          |
| AS-AT  | -2846 / 11857             | -39.5                     | -39.5             | 0.34 (2)                  |       |                           | 6.25          |
| AT-T   | -2846 / 11857             | -39.5                     | -39.5             | 0.34 (2)                  |       |                           | 6.25          |
| T-AU   | -3421 / 14380             | -39.5                     | -39.5             | 0.40 (2)                  |       |                           | 6.25          |
| AU-AV  | -3421 / 14380             | -39.5                     | -39.5             | 0.40 (2)                  |       |                           | 6.25          |
| AV-AW  | -3421 / 14380             | -39.5                     | -39.5             | 0.40 (2)                  |       |                           | 6.25          |
| AW-S   | -3421 / 14380             | -39.5                     | -39.5             | 0.40 (2)                  |       |                           | 6.25          |
| S-AX   | -2766 / 11957             | -39.5                     | -39.5             | 0.34 (3)                  |       |                           | 6.25          |
| AX-AY  | -2766 / 11957             | -39.5                     | -39.5             | 0.34 (3)                  |       |                           | 6.25          |
| AY-R   | -2766 / 11957             | -39.5                     | -39.5             | 0.34 (3)                  |       |                           | 6.25          |
| R-Q    | -2766 / 11957             | -39.5                     | -39.5             | 0.34 (3)                  |       |                           | 6.25          |
| Q-AZ   | -1636 / 7102              | -39.5                     | -39.5             | 0.21 (3)                  |       |                           | 6.25          |
| AZ-BA  | -1636 / 7102              | -39.5                     | -39.5             | 0.21 (3)                  |       |                           | 6.25          |
| BA-BB  | -1636 / 7102              | -39.5                     | -39.5             | 0.21 (3)                  |       |                           | 6.25          |
| BB-P   | -1636 / 7102              | -39.5                     | -39.5             | 0.21 (3)                  |       |                           | 6.25          |
| P-BC   | -1454 / 6248              | -39.5                     | -39.5             | 0.20 (3)                  |       |                           | 6.25          |
| BC-BD  | -1454 / 6248              | -39.5                     | -39.5             | 0.20 (3)                  |       |                           | 6.25          |
| BD-Z   | -1454 / 6248              | -39.5                     | -39.5             | 0.20 (3)                  |       |                           | 6.25          |
| Z-N    | -695 / 3151               | -39.5                     | -39.5             | 0.13 (3)                  |       |                           | 6.25          |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8  | -216 | -279 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| F  | 15-11-4 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| H  | 21-7-4  | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| J  | 27-2-12 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L  | 37-3-8  | -216 | -279 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 37-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 29-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 13-11-4 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W  | 5-11-4  | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AB | 7-11-4  | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AC | 9-11-4  | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AD | 11-11-4 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AE | 13-11-4 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AF | 17-11-4 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AG | 19-11-4 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AH | 23-2-12 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AI | 25-2-12 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AJ | 29-2-12 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AK | 31-2-12 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AL | 33-2-12 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AM | 35-2-12 | -60  | -60  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AN | 1-11-4  | -20  | -20  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AO | 3-11-4  | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AP | 7-11-4  | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AQ | 9-11-4  | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AR | 11-11-4 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AS | 15-11-4 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AT | 17-11-4 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AU | 19-11-4 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AV | 21-7-4  | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AW | 23-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AX | 25-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AY | 27-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| AZ | 31-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| BA | 33-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| BB | 35-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| BC | 39-2-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| BD | 41-2-12 | -20  | -20  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING

AS PER NBCC 4.1.6.2.(8)

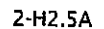
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCq, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only  
DWG# T-2206819

**Tamarack Roof Truss, Burlington**

Version 8.530 S Feb 23 2022 MiTek Industries, Inc. Thu Mar 10 16:43:55 2022 Page 1  
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|                    |                   |               |          |                              |          |
|--------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>424915 | TRUSS NAME<br>T81 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington

Version 8.530 S Feb 23 2022 MITek Industries, Inc. Thu Mar 10 16:43:55 2022 Page 2  
ID:Nx0GIYRcZlvpB E9rQcwHDzcytp-sSE3?eUaHk1!!l8z6hANDKLfpc2pDCF7w2MS6BzchDY

NOTES: (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

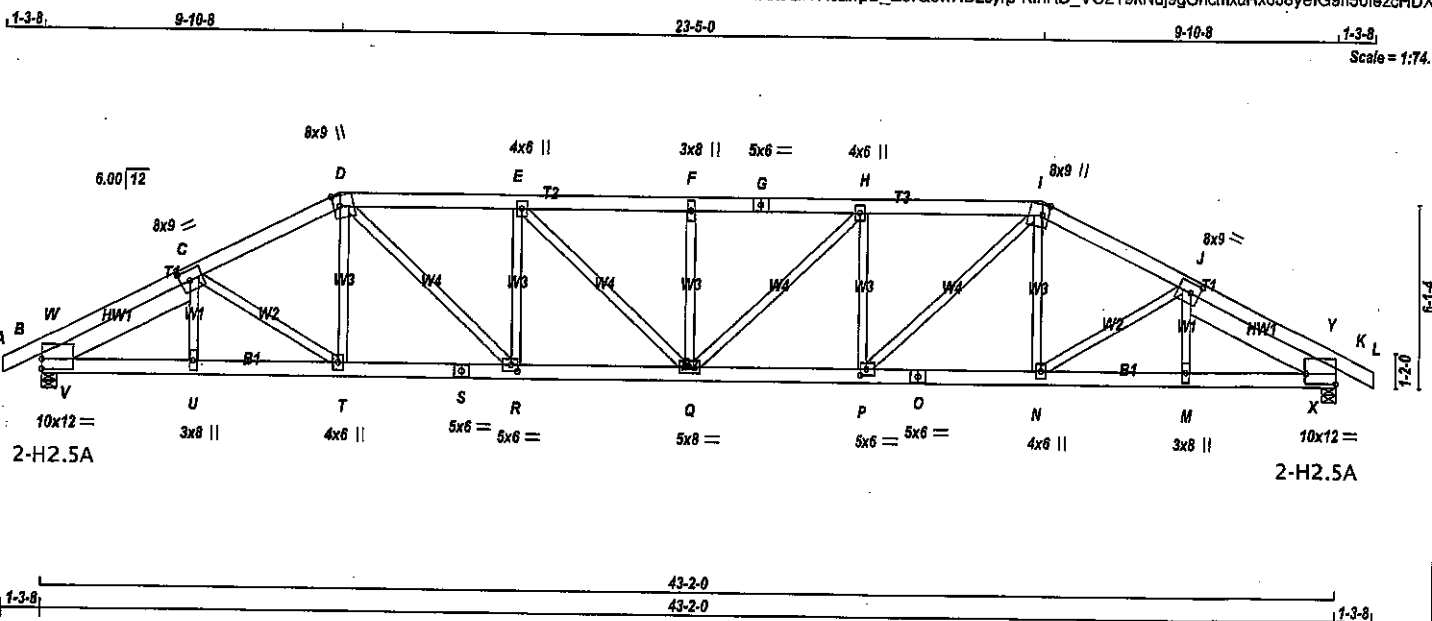
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only  
DWG# T-2206820

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>424915</b>       | TRUSS NAME<br><b>T82</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |

Version 8.530 S Feb 23 2022 MITek Industries, Inc. Thu Mar 10 16:43:56 2022 Page 1  
ID:Nx0GIYRcZnpB\_E9rQcwHDzoyrp-KInRD\_VC219kNuJ9gOhcmxuRx0J8yelG9h50fezcHDx



TOTAL WEIGHT = 274 lb

| LUMBER                            |        |      |        | DESCR. |  |
|-----------------------------------|--------|------|--------|--------|--|
| N. L. G. A. RULES                 | CHORDS | SIZE | LUMBER |        |  |
| A - D                             | 2x6    | DRY  | No.2   | SPF    |  |
| D - G                             | 2x6    | DRY  | No.2   | SPF    |  |
| G - I                             | 2x6    | DRY  | No.2   | SPF    |  |
| I - L                             | 2x6    | DRY  | No.2   | SPF    |  |
| B - S                             | 2x6    | DRY  | No.2   | SPF    |  |
| S - O                             | 2x6    | DRY  | No.2   | SPF    |  |
| O - K                             | 2x6    | DRY  | No.2   | SPF    |  |
| REINFORCING MEMBERS               |        |      |        |        |  |
| HW1                               | 2x8    | DRY  | No.2   | SPF    |  |
| HW2                               | 2x8    | DRY  | No.2   | SPF    |  |
| ALL WEBS 2x4 DRY SEASONED LUMBER. |        |      |        |        |  |
|                                   | 2x4    | DRY  | No.2   | SPF    |  |

| PLATES (table is in inches) |          |        |      |                |
|-----------------------------|----------|--------|------|----------------|
| JT                          | TYPE     | PLATES | W    | LEN Y X        |
| B                           | TMBMW1-I | MT20   | 10.0 | 12.0 4.00      |
| C                           | TMBWW1-I | MT20   | 8.0  | 9.0 4.00 3.50  |
| D                           | TTWW+m   | MT20   | 8.0  | 9.0 4.25 2.50  |
| E                           | TMBWW1-I | MT20   | 4.0  | 6.0            |
| F                           | TMBWW1-I | MT20   | 3.0  | 8.0            |
| G                           | TS-I     | MT20   | 5.0  | 6.0            |
| H                           | TMBWW1-I | MT20   | 4.0  | 6.0            |
| I                           | TTWW+m   | MT20   | 8.0  | 9.0 4.25 2.50  |
| J                           | TMBWW1-I | MT20   | 8.0  | 9.0 4.00 3.50  |
| K                           | TMBMW1-I | MT20   | 10.0 | 12.0 4.00 Edge |
| M                           | BMWW+w   | MT20   | 3.0  | 8.0            |
| N                           | BMWW1-I  | MT20   | 4.0  | 6.0            |
| O                           | BS-I     | MT20   | 5.0  | 6.0            |
| P                           | BMWW1-I  | MT20   | 5.0  | 6.0 2.50 2.50  |
| Q                           | BMWW1-I  | MT20   | 5.0  | 6.0            |
| R                           | BMWW1-I  | MT20   | 5.0  | 6.0 2.50 2.50  |
| S                           | BS-I     | MT20   | 5.0  | 6.0            |
| T                           | BMWW+w   | MT20   | 4.0  | 6.0            |
| U                           | BMWW1-I  | MT20   | 3.0  | 8.0            |

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

NOTES- (1)  
1)

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

| BEARINGS |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT   |
| B        | 3501 | 0                       | 3798                            | 158       | -1206    |
| K        | 3501 | 0                       | 3798                            | 0         | -1206    |

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1208 LBS FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT K FOR 1208 LBS FACTORED UPLIFT

PROVIDE FOR 158 LBS FACTORED HORIZONTAL REACTION AT JOINT B

#### UNFACTORED REACTIONS

| JT | 1ST LOSE | MAX. MIN. COMPONENT REACTIONS | DEAD    | SOIL       |
|----|----------|-------------------------------|---------|------------|
| B  | COMBINED | SNOW                          | LIVE    | PERM. LIVE |
| B  | 2584     | 1734 / 0                      | 453 / 0 | 0 / 0      |
| K  | 2584     | 1734 / 0                      | 453 / 0 | 0 / 0      |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|------------|-------------|---------|-------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0 / 0 |
| K  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 78 / -1148  | 595 / 0 | 0 / 0 |

| JT | COMBINED | SNOW     | LIVE    | PERM. LIVE | WIND        | DEAD    | SOIL |
|----|----------|----------|---------|------------|-------------|---------|------|
| B  | 2584     | 1734 / 0 | 453 / 0 | 0 / 0      | 201 / -1148 | 595 / 0 | 0    |

|                                 |            |          |     |                 |          |
|---------------------------------|------------|----------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
| 424915                          | T82        | 1        | 1   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

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ID:Nx0GIYRcZvpB E9rQcwHDzcyv-KfnRD VC219kNul9gOhamxuRx0J8veIG9h50fezcHDX

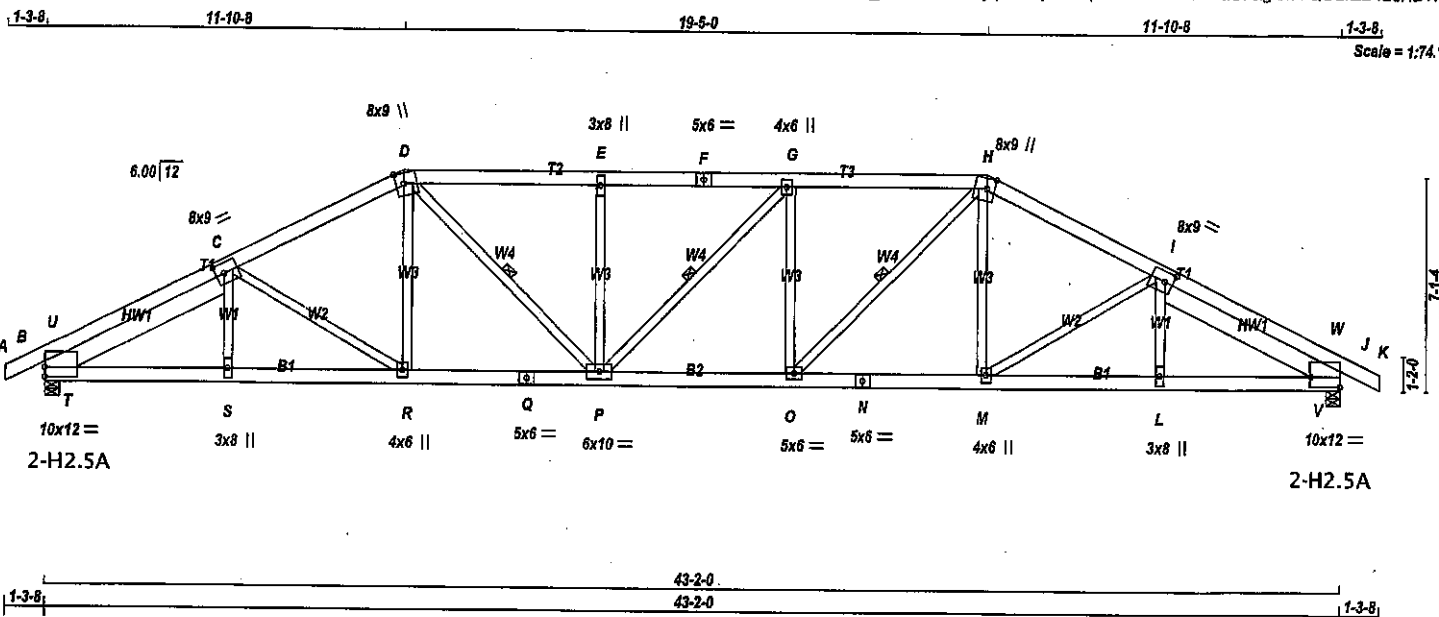
WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF ( 9.6 ) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM), INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only  
DWG# T-2206821

|                                 |            |          |     |                 |          |
|---------------------------------|------------|----------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
| 424915                          | T83        | 1        | 1   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

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TOTAL WEIGHT = 278 lb

| LUMBER                |      |        |      | DESCR. |  |
|-----------------------|------|--------|------|--------|--|
| CHORDS                | SIZE | LUMBER |      | SPF    |  |
| A - D                 | 2x6  | DRY    | No.2 | SPF    |  |
| D - F                 | 2x6  | DRY    | No.2 | SPF    |  |
| F - H                 | 2x6  | DRY    | No.2 | SPF    |  |
| H - K                 | 2x6  | DRY    | No.2 | SPF    |  |
| B - Q                 | 2x6  | DRY    | No.2 | SPF    |  |
| Q - N                 | 2x6  | DRY    | No.2 | SPF    |  |
| N - J                 | 2x6  | DRY    | No.2 | SPF    |  |
| REINFORCING MEMBERS   |      |        |      | DESCR. |  |
| HW1                   | 2x8  | DRY    | No.2 | SPF    |  |
| HW2                   | 2x8  | DRY    | No.2 | SPF    |  |
| ALL WEBS              |      |        |      | DESCR. |  |
| 2x4                   | DRY  | No.2   | SPF  |        |  |
| DRY: SEASONED LUMBER. |      |        |      |        |  |

| PLATES (table is in inches) |         |        |      |      |           |
|-----------------------------|---------|--------|------|------|-----------|
| JT                          | TYPE    | PLATES | W    | LEN  | Y X       |
| B                           | TMBMW-1 | MT20   | 10.0 | 12.0 | 4.00      |
| C                           | TMW-1   | MT20   | 8.0  | 9.0  | 4.00 3.25 |
| D                           | TTWW+m  | MT20   | 8.0  | 9.0  | 4.25 3.00 |
| E                           | TMW+w   | MT20   | 3.0  | 8.0  |           |
| F                           | TS-t    | MT20   | 5.0  | 6.0  |           |
| G                           | TMW+w   | MT20   | 4.0  | 6.0  |           |
| H                           | TTWW+m  | MT20   | 8.0  | 9.0  | 4.25 3.00 |
| I                           | TMW-1   | MT20   | 8.0  | 9.0  | 4.00 3.25 |
| J                           | TMBMW-1 | MT20   | 10.0 | 12.0 | 4.00 Edge |
| L                           | BMW+w   | MT20   | 3.0  | 8.0  |           |
| M                           | BMW-1   | MT20   | 4.0  | 6.0  |           |
| N                           | BS-1    | MT20   | 5.0  | 6.0  |           |
| O                           | BMW-1   | MT20   | 5.0  | 6.0  |           |
| P                           | BMW-1   | MT20   | 6.0  | 10.0 |           |
| Q                           | BS-1    | MT20   | 5.0  | 6.0  |           |
| R                           | BMW-1   | MT20   | 4.0  | 6.0  |           |
| S                           | BMW+w   | MT20   | 3.0  | 8.0  |           |

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

NOTES- (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| BEARINGS |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|------|-------------------------|---------------------------------|-----------|----------|
| JT       |      | VERT                    | HORZ                            | DOWN      | HORZ     |
| B        | 3501 | 0                       | 3738                            | 196       | -1188    |
| J        | 3501 | 0                       | 3738                            | 0         | -1188    |

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1188 LBS. FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT J FOR 1188 LBS. FACTORED UPLIFT

PROVIDE FOR 186 LBS. FACTORED HORIZONTAL REACTION AT JOINT B

| UNFACTORED REACTIONS |          | 1ST CASE | MAX./MIN. COMPONENT REACTIONS |           |            |         |       |
|----------------------|----------|----------|-------------------------------|-----------|------------|---------|-------|
| JT                   | COMBINED | SNOW     | LIVE                          | PERM.LIVE | WIND       | DEAD    | SOIL  |
| B                    | 2584     | 1694 / 0 | 453 / 0                       | 0 / 0     | 191 / -135 | 595 / 0 | 0 / 0 |
| J                    | 2584     | 1694 / 0 | 453 / 0                       | 0 / 0     | 58 / -135  | 595 / 0 | 0 / 0 |

| HORIZONTAL REACTIONS |     |       |       |       |            |       |       |
|----------------------|-----|-------|-------|-------|------------|-------|-------|
| B                    | --- | 0 / 0 | 0 / 0 | 0 / 0 | 133 / -133 | 0 / 0 | 0 / 0 |

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

BRACING  
MAX. UNBRACED TOP CHORD LENGTH = 3.28 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.11 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 H-O, D-P, G-P.

LOADING  
TOTAL LOAD CASES: (16)

| CHORDS |              | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. VERT. LOAD (LC) | MAX. HORIZ. LOAD (LC) | MEMB. LENGTH (FT) | W E B S | MAX. FACTORED FORCE (LBS) | MAX. HORIZ. LOAD (LC) |
|--------|--------------|---------------------------|---------------------------|----------------------|-----------------------|-------------------|---------|---------------------------|-----------------------|
| FR-TO  |              |                           |                           |                      |                       |                   | FR-TO   |                           |                       |
| A-B    | 0 / 1        | -115.2                    | -115.2                    | 0.09 (2)             | 10.00                 | 10.00             | S-C     | 0 / 280                   | 0.05 (17)             |
| B-U    | -4334 / 1308 | -115.2                    | -115.2                    | 0.23 (2)             | 4.00                  | 4.00              | C-R     | -613 / 358                | 0.39 (2)              |
| U-C    | -2898 / 1057 | -115.2                    | -115.2                    | 0.30 (2)             | 4.64                  | 4.64              | R-D     | -146 / 803                | 0.10 (2)              |
| C-D    | -5092 / 1761 | -115.2                    | -115.2                    | 0.43 (2)             | 3.55                  | 3.55              | M-H     | -144 / 599                | 0.10 (3)              |
| D-E    | -5497 / 1881 | -115.2                    | -115.2                    | 0.55 (2)             | 3.30                  | 3.30              | M-I     | -614 / 360                | 0.39 (3)              |
| E-F    | -5497 / 1882 | -115.2                    | -115.2                    | 0.56 (2)             | 3.28                  | 3.28              | L-I     | 0 / 281                   | 0.05 (17)             |
| F-G    | -5497 / 1882 | -115.2                    | -115.2                    | 0.56 (2)             | 3.28                  | 3.28              | O-H     | -624 / 1921               | 0.31 (2)              |
| G-H    | -5502 / 1984 | -115.2                    | -115.2                    | 0.57 (3)             | 3.28                  | 3.28              | D-P     | -819 / 1913               | 0.31 (3)              |
| H-I    | -5091 / 1761 | -115.2                    | -115.2                    | 0.43 (3)             | 3.55                  | 3.55              | O-G     | -1123 / 504               | 0.62 (2)              |
| I-W    | -2898 / 1057 | -115.2                    | -115.2                    | 0.30 (3)             | 4.64                  | 4.64              | P-E     | -859 / 443                | 0.51 (10)             |
| W-J    | -4333 / 1307 | -115.2                    | -115.2                    | 0.23 (3)             | 4.00                  | 4.00              | P-G     | -277 / 262                | 0.11 (3)              |
| J-K    | 0 / 1        | -115.2                    | -115.2                    | 0.09 (3)             | 10.00                 | 10.00             | T-U     | -378 / 1787               | 0.00 (1)              |
| B-T    | -967 / 2602  | -39.5                     | -39.5                     | 0.32 (2)             | 6.25                  | 6.25              | T-C     | -2974 / 848               | 0.91 (2)              |
| T-S    | -1665 / 5046 | -39.5                     | -39.5                     | 0.69 (2)             | 6.11                  | 6.11              | I-V     | -2975 / 850               | 0.91 (3)              |
| S-R    | -1666 / 5042 | -39.5                     | -39.5                     | 0.69 (2)             | 6.12                  | 6.12              | V-W     | -378 / 1787               | 0.00 (1)              |
| R-Q    | -1367 / 4538 | -39.5                     | -39.5                     | 0.63 (2)             | 6.25                  | 6.25              |         |                           |                       |
| Q-P    | -1367 / 4538 | -39.5                     | -39.5                     | 0.63 (2)             | 6.25                  | 6.25              |         |                           |                       |
| P-O    | -1628 / 5502 | -39.5                     | -39.5                     | 0.73 (3)             | 6.16                  | 6.16              |         |                           |                       |
| O-N    | -1191 / 4537 | -39.5                     | -39.5                     | 0.63 (3)             | 6.25                  | 6.25              |         |                           |                       |
| N-M    | -1191 / 4537 | -39.5                     | -39.5                     | 0.63 (3)             | 6.25                  | 6.25              |         |                           |                       |
| M-L    | -1481 / 5042 | -39.5                     | -39.5                     | 0.69 (3)             | 6.25                  | 6.25              |         |                           |                       |
| L-V    | -1480 / 5047 | -39.5                     | -39.5                     | 0.69 (3)             | 6.25                  | 6.25              |         |                           |                       |
| V-J    | -781 / 2601  | -39.5                     | -39.5                     | 0.32 (3)             | 6.25                  | 6.25              |         |                           |                       |

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|              |      |      |     |
|--------------|------|------|-----|
| TOP CH.      | LL = | 33.4 | PSF |
| DL =         | 6.0  | PSF  |     |
| BOT CH.      | LL = | 10.5 | PSF |
| DL =         | 7.4  | PSF  |     |
| TOTAL LOAD = | 57.3 | PSF  |     |

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 4 OF CBC 2018, ABC 2019  
- PART 4 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

DESIGN ASSUMPTIONS  
- SLOPE REDUCTION FACTOR USED

(80% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.44")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.23")  
ALLOWABLE DEFL.(TL) = L/180 (2.88")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")

CSI: TC=0.57/1.00 (G-H3), BC=0.73/1.00 (O-P3), WB=0.91/1.00 (I-V3), SSI=0.31/1.00 (G-H3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00  
WIND LOAD IMPORTANCE FACTOR = 1.00  
LIVE LOAD IMPORTANCE FACTOR = 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.

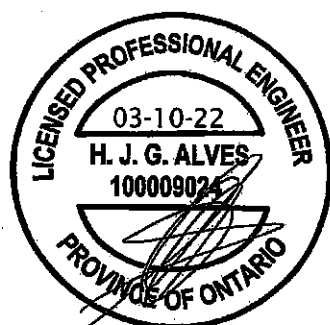
#### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-----------------|-------------|---------------|
| MT20            | 650         | 371           |
|                 | 1747        | 788           |
|                 | 1987        | 1873          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.80)  
JSI METAL= 0.85 (Q) (INPUT = 1.00)



Structural component only  
DWG# T-2206822

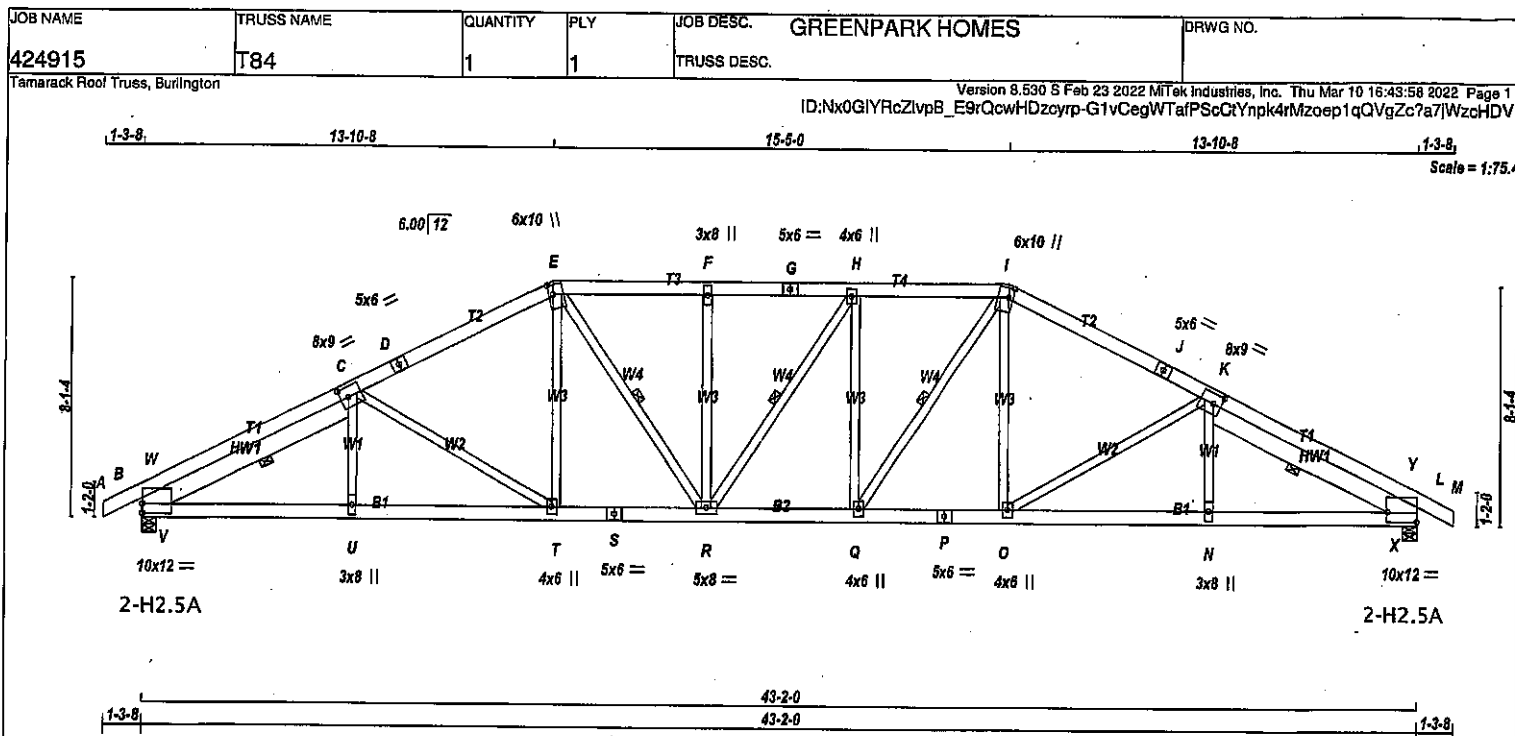
CONTINUED ON PAGE 2

|                                 |            |          |     |                                                                                                                                                                 |                 |          |
|---------------------------------|------------|----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                                                                                                                                       | GREENPARK HOMES | DRWG NO. |
| 424915                          | T83        | 1        | 1   | TRUSS DESC.                                                                                                                                                     |                 |          |
| Tamarack Roof Truss, Burlington |            |          |     | Version 8.530 S Feb 23 2022 MiTek Industries, Inc. Thu Mar 10 16:43:57 2022 Page 2<br>ID:Nx0GIYRcZlvpB E9rQcwHDzcwp-orLqOKWrpLHb72ILD6CrI9Qd7Qqxh77QOLrZB4zcHDW |                 |          |

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF ( 9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_p C_g$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only  
DWG# T-2206822



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

| CHORDS | SIZE | LUMBER   | DESCR. |
|--------|------|----------|--------|
| A - D  | 2x6  | DRY No.2 | SPF    |
| D - E  | 2x6  | DRY No.2 | SPF    |
| E - G  | 2x6  | DRY No.2 | SPF    |
| G - I  | 2x6  | DRY No.2 | SPF    |
| I - J  | 2x6  | DRY No.2 | SPF    |
| J - M  | 2x6  | DRY No.2 | SPF    |
| B - S  | 2x6  | DRY No.2 | SPF    |
| S - P  | 2x6  | DRY No.2 | SPF    |
| P - L  | 2x6  | DRY No.2 | SPF    |

**REINFORCING MEMBERS**

| MEMBER | SIZE | LUMBER   | DESCR. |
|--------|------|----------|--------|
| HW1    | 2x8  | DRY No.2 | SPF    |
| HW2    | 2x8  | DRY No.2 | SPF    |

**ALL WEBS** 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT      | TYPE     | PLATES | W    | LEN  | Y    | X    |
|---------|----------|--------|------|------|------|------|
| B       | TMBMW1-I | MT20   | 10.0 | 12.0 | 4.00 |      |
| C       | TMBMW1-I | MT20   | 8.0  | 9.0  | 4.00 | 3.25 |
| D, G, J |          |        |      |      |      |      |
| E       | TS-I     | MT20   | 5.0  | 6.0  |      |      |
| F       | TTWW+m   | MT20   | 6.0  | 10.0 | 4.00 | 1.75 |
| H       | TMW+w    | MT20   | 3.0  | 8.0  |      |      |
| I       | TMW+w    | MT20   | 4.0  | 6.0  |      |      |
| K       | TTWW+m   | MT20   | 6.0  | 10.0 | 4.00 | 1.75 |
| L       | TMW+w    | MT20   | 8.0  | 9.0  | 4.00 | 3.25 |
| N       | TMBMW1-I | MT20   | 10.0 | 12.0 | 4.00 | Edge |
| O       | BMW+w    | MT20   | 3.0  | 8.0  |      |      |
| O, Q, T |          |        |      |      |      |      |
| A       | BMW+w    | MT20   | 4.0  | 6.0  |      |      |
| P       | BS-I     | MT20   | 5.0  | 6.0  |      |      |
| R       | BMW+w    | MT20   | 5.0  | 8.0  |      |      |
| S       | BS-I     | MT20   | 5.0  | 6.0  |      |      |
| U       | BMW+w    | MT20   | 3.0  | 8.0  |      |      |

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

NOTES- (1)  
1)

**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                    | DOWN                            | UPLIFT    | IN-SX      |
| B  | 3501 0                  | 3667 214                        | -1166 5-8 | 5-8        |
| L  | 3501 0                  | 3667 0                          | -1166 5-8 | 5-8        |

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1166 LBS FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT L FOR 1166 LBS FACTORED UPLIFT

PROVIDE FOR 214 LBS FACTORED HORIZONTAL REACTION AT JOINT B

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW     | LIVE    | PERM.LIVE | WIND        | DEAD    | SOIL  |
|----|----------|----------|---------|-----------|-------------|---------|-------|
| B  | 2584     | 1647 / 0 | 453 / 0 | 0 / 0     | 180 / -1119 | 595 / 0 | 0 / 0 |
| L  | 2584     | 1647 / 0 | 453 / 0 | 0 / 0     | 65 / -1119  | 595 / 0 | 0 / 0 |

**HORIZONTAL REACTIONS**

| JT | COMBINED | SNOW  | LIVE  | PERM.LIVE | WIND       | DEAD  | SOIL  |
|----|----------|-------|-------|-----------|------------|-------|-------|
| B  | ---      | 0 / 0 | 0 / 0 | 0 / 0     | 153 / -153 | 0 / 0 | 0 / 0 |

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

**BRACING**  
MAX. UNBRACED TOP CHORD LENGTH = 3.53 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.12 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 I-Q, E-R, H-R, C-V, K-X.

**LOADING**  
TOTAL LOAD CASES: (18)

| CHORDS |                           |                           |                                | WEBS                           |       |                           |                               |
|--------|---------------------------|---------------------------|--------------------------------|--------------------------------|-------|---------------------------|-------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC2) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
| FR-TO  |                           | FROM TO                   |                                |                                | FR-TO |                           |                               |
| A-B    | 0 / 1                     | -115.2 -115.2             | 0.09 (2)                       | 10.00                          | U-C   | 0 / 347                   | 0.06 (17)                     |
| B-W    | -4331 / 1290              | -115.2 -115.2             | 0.28 (2)                       | 3.94                           | C-T   | -955 / 489                | 0.92 (2)                      |
| W-C    | -2944 / 1100              | -115.2 -115.2             | 0.46 (2)                       | 4.41                           | T-E   | -209 / 767                | 0.16 (13)                     |
| C-D    | -4674 / 1855              | -115.2 -115.2             | 0.57 (2)                       | 3.53                           | O-I   | -206 / 761                | 0.16 (14)                     |
| D-E    | -4674 / 1855              | -115.2 -115.2             | 0.57 (2)                       | 3.53                           | O-K   | -958 / 491                | 0.92 (3)                      |
| E-F    | -4686 / 1735              | -115.2 -115.2             | 0.33 (2)                       | 3.80                           | N-K   | 0 / 347                   | 0.06 (17)                     |
| F-G    | -4686 / 1735              | -115.2 -115.2             | 0.33 (2)                       | 3.80                           | Q-I   | -469 / 1428               | 0.23 (2)                      |
| G-H    | -4686 / 1735              | -115.2 -115.2             | 0.33 (2)                       | 3.80                           | E-R   | -462 / 1416               | 0.23 (3)                      |
| H-I    | -4691 / 1736              | -115.2 -115.2             | 0.34 (3)                       | 3.80                           | Q-H   | -995 / 430                | 0.80 (2)                      |
| I-J    | -4673 / 1854              | -115.2 -115.2             | 0.57 (3)                       | 3.53                           | R-F   | -752 / 347                | 0.59 (10)                     |
| J-K    | -4673 / 1854              | -115.2 -115.2             | 0.57 (3)                       | 3.53                           | R-H   | -330 / 307                | 0.13 (3)                      |
| K-Y    | -2943 / 1100              | -115.2 -115.2             | 0.46 (3)                       | 4.41                           | V-W   | -316 / 1674               | 0.00 (1)                      |
| Y-L    | -4330 / 1290              | -115.2 -115.2             | 0.28 (3)                       | 3.94                           | V-C   | -2774 / 762               | 0.41 (2)                      |
| L-M    | 0 / 1                     | -115.2 -115.2             | 0.09 (3)                       | 10.00                          | K-X   | -2775 / 764               | 0.41 (3)                      |
|        |                           |                           |                                |                                | X-Y   | -315 / 1673               | 0.00 (1)                      |
| B-V    | -1018 / 2650              | -39.5 -39.5               | 0.32 (2)                       | 6.25                           |       |                           |                               |
| V-U    | -1853 / 4982              | -39.5 -39.5               | 0.89 (2)                       | 6.12                           |       |                           |                               |
| U-T    | -1854 / 4957              | -39.5 -39.5               | 0.88 (2)                       | 6.12                           |       |                           |                               |
| T-S    | -1242 / 4158              | -39.5 -39.5               | 0.58 (2)                       | 6.25                           |       |                           |                               |
| S-R    | -1242 / 4158              | -39.5 -39.5               | 0.58 (2)                       | 6.25                           |       |                           |                               |
| R-Q    | -1342 / 4691              | -39.5 -39.5               | 0.61 (1)                       | 6.25                           |       |                           |                               |
| Q-P    | -1078 / 4158              | -39.5 -39.5               | 0.58 (3)                       | 6.25                           |       |                           |                               |
| P-O    | -1078 / 4158              | -39.5 -39.5               | 0.58 (3)                       | 6.25                           |       |                           |                               |
| O-N    | -1442 / 4958              | -39.5 -39.5               | 0.67 (3)                       | 6.25                           |       |                           |                               |
| N-X    | -1441 / 4963              | -39.5 -39.5               | 0.69 (3)                       | 6.25                           |       |                           |                               |
| X-L    | -803 / 2650               | -39.5 -39.5               | 0.32 (3)                       | 6.25                           |       |                           |                               |

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 33.4 PSF  
DL = 8.0 PSF  
BOT CH. LL = 10.5 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 57.3 PSF

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

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:  
- PART 4 OF BCBC 2018, ABC 2019  
- PART 4 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

**DESIGN ASSUMPTIONS**  
- SLOPE REDUCTION FACTOR USED

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.44")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.20")  
ALLOWABLE DEFL.(TL) = L/180 (2.68")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.57/1.00 (C-E2), BC=0.69/1.00 (U-V2), WB=0.92/1.00 (K-O3), SSI=0.29/1.00 (C-E2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00  
WIND LOAD IMPORTANCE FACTOR = 1.00  
LIVE LOAD IMPORTANCE FACTOR = 1.00  
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (E) (INPUT = 0.90)  
JSI METAL= 0.72 (S) (INPUT = 1.00)



Structural component only  
DWG# T-2206823

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 424915   | T84        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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ID:Nx0GIYRcZlvpB E9rQcwHDzovrp-G1vCaoWTafPScCfYnpg4rMzoep1qQVqZc?a7WzchDV

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF ( 9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_{pe}$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



Structural component only  
DWG# T-2206823

**Tamarack Roof Truss, Burlington**

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ID:Nx0GIYRcZlvpB\_E9rQcwHDzcyrr-G1vCegWTafPScCtYnpk4rMzmGp1QdmZc?azlWzrHdv



**NOTES- (1)**  
1) Lateral braces to be a minimum of 2X4 SPF #2.

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING  
AS PER NBCC 4.1.6.2.(8)

JSI GRIP= 0.89 (E) (INPUT = 0.80 )  
JSI METAL= 0.73 (P) (INPUT = 1.00 )



|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>424915              | TRUSS NAME<br>T85 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | TRUSS DESC.                  |          |

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ID:Nx0GIYRcZlvpB E9rQcwHDzcvrp-kETar0X5LYJEMSkLWFJOaWx0DN 940lrKgGzzcH DU

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF ( 9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (OPEN TERRAIN), AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

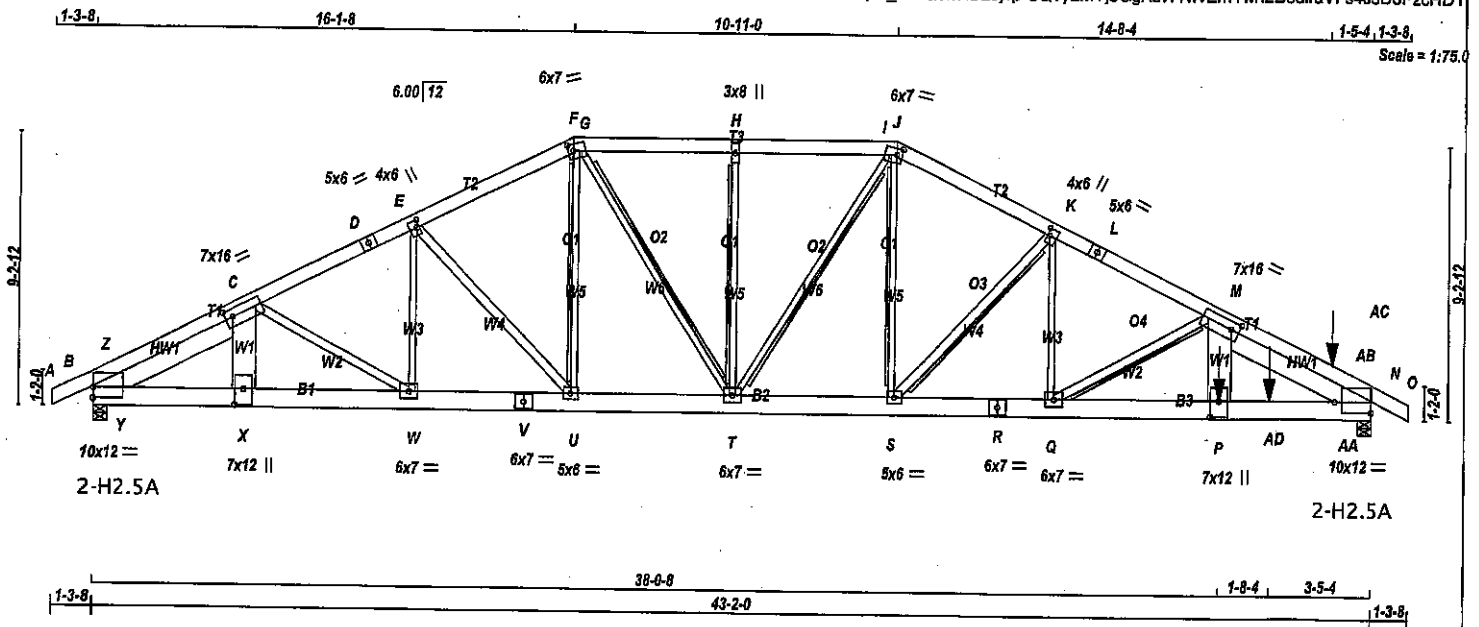


Structural component only  
DWG# T-2206824

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 424915   | T86        | 1        | 3   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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ID:Nx0GIYRcZlvpB\_E9rQcwHDzcypr-CQ1y2MYJ5GgAsW1wvEmYwn2DcdiruVFs4J3DoPzcHDT



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE       | LUMBER | DESCR. |
|--------|-------------------|--------|------------|--------|--------|
| A - D  | 2x8               | DRY    | No.2       | SPF    |        |
| D - F  | 2x8               | DRY    | No.2       | SPF    |        |
| F - J  | 2x8               | DRY    | No.2       | SPF    |        |
| J - L  | 2x8               | DRY    | No.2       | SPF    |        |
| L - O  | 2x8               | DRY    | No.2       | SPF    |        |
| B - V  | 2x8               | DRY    | 1950F 1.7E | SPF    |        |
| V - R  | 2x8               | DRY    | 1950F 1.7E | SPF    |        |
| R - N  | 2x8               | DRY    | 1950F 1.7E | SPF    |        |

| REINFORCING MEMBERS | HW1 | HW2 | SIZE | LUMBER | DESCR. |
|---------------------|-----|-----|------|--------|--------|
| HW1                 | 2x8 | DRY | No.2 | SPF    |        |
| HW2                 | 2x8 | DRY | No.2 | SPF    |        |

| ALL WEBS EXCEPT | X - C | C - W | W - U | U - K | K - M | M - P | SIZE | LUMBER | DESCR. |
|-----------------|-------|-------|-------|-------|-------|-------|------|--------|--------|
| X - C           | 2x10  | DRY   | No.2  | SPF   |       |       |      |        |        |
| C - W           | 2x4   | DRY   | No.2  | SPF   |       |       |      |        |        |
| W - U           | 2x4   | DRY   | No.2  | SPF   |       |       |      |        |        |
| U - K           | 2x4   | DRY   | No.2  | SPF   |       |       |      |        |        |
| K - M           | 2x4   | DRY   | No.2  | SPF   |       |       |      |        |        |
| M - P           | 2x10  | DRY   | No.2  | SPF   |       |       |      |        |        |

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |           |
| A - D                                    | 2                    | 12        |
| D - F                                    | 2                    | 12        |
| F - J                                    | 2                    | 12        |
| J - L                                    | 2                    | 12        |
| L - O                                    | 2                    | 12        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| B - V                                    | 3                    | 4         |
| V - R                                    | 2                    | 12        |
| R - N                                    | 3                    | 4         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |           |
| 2x3                                      | 1                    | 6         |
| 2x4                                      | 1                    | 6         |
| 2x8                                      | 2                    | 6         |
| M - P                                    | 4                    | 4         |

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT                    | HORZ                            | DOWN      | HORZ     |
| B        | 4804                    | 0                               | 4880      | 246      |
| N        | 13850                   | 0                               | 13909     | 0        |

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 1139 LBS FACTORED UPLIFT  
PROVIDE ANCHORAGE AT BEARING JOINT N FOR 1139 LBS FACTORED UPLIFT

PROVIDE FOR 246 LBS FACTORED HORIZONTAL REACTION AT JOINT B

| UNFACTORED REACTIONS | 1ST CASE | MAX /MIN COMPONENT REACTIONS                     |
|----------------------|----------|--------------------------------------------------|
| JT                   | COMBINED | SNOW LIVE PERM.LIVE WIND DEAD SOIL               |
| B                    | 3502     | 2208 / 0 453 / 0 0 / 0 185 / -1100 894 / 0 0 / 0 |
| N                    | 9877     | 6510 / 0 453 / 0 0 / 0 84 / -1100 2953 / 0 0 / 0 |

| HORIZONTAL REACTIONS | B     | N          |
|----------------------|-------|------------|
| B                    | 0 / 0 | 0 / 0      |
| N                    | 0 / 0 | 175 / -175 |

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

BRACING  
MAX. UNBRACED TOP CHORD LENGTH = 3.55 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.

2x6 DRY SPF No.2 T-BRACE AT F-U, J-S, K-S, M-Q, I-T, G-T, H-T

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

LOADING  
TOTAL LOAD CASES: (18)

| CHORDS |                           |                           |                         | WEBS               |       |                           |                         |
|--------|---------------------------|---------------------------|-------------------------|--------------------|-------|---------------------------|-------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (L/C) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (L/C) |
| FR-TO  |                           | FROM TO                   |                         |                    | FR-TO |                           |                         |
| A-B    | 0 / 6                     | -115.2 -115.2             | 0.03 (2)                | 10.00              | X-C   | 0 / 350                   | 0.01 (17)               |
| B-Z    | -5510 / 1220              | -115.2 -115.2             | 0.05 (13)               | 5.86               | C-W   | -140 / 393                | 0.02 (2)                |
| Z-C    | -4124 / 1056              | -115.2 -115.2             | 0.07 (13)               | 6.25               | W-E   | -179 / 292                | 0.03 (10)               |
| C-D    | -7874 / 1716              | -115.2 -115.2             | 0.12 (2)                | 5.11               | E-U   | -991 / 528                | 0.30 (2)                |
| D-E    | -7874 / 1716              | -115.2 -115.2             | 0.12 (2)                | 5.11               | U-F   | -379 / 1051               | 0.08 (2)                |
| E-F    | -7104 / 1574              | -115.2 -115.2             | 0.12 (2)                | 5.27               | S-J   | -380 / 4413               | 0.33 (3)                |
| F-G    | -6408 / 1496              | -115.2 -115.2             | 0.19 (3)                | 5.41               | S-K   | -5619 / 528               | 0.44 (3)                |
| G-H    | -7425 / 1526              | -115.2 -115.2             | 0.21 (3)                | 5.08               | Q-K   | -55 / 5096                | 0.38 (3)                |
| H-I    | -7425 / 1526              | -115.2 -115.2             | 0.12 (2)                | 5.17               | Q-M   | -9724 / 253               | 0.53 (3)                |
| I-J    | -7918 / 1496              | -115.2 -115.2             | 0.12 (3)                | 5.05               | P-M   | 0 / 10945                 | 0.30 (1)                |
| J-K    | -8866 / 1574              | -115.2 -115.2             | 0.15 (3)                | 4.80               | T-I   | -1421 / 62                | 0.30 (3)                |
| K-L    | -12849 / 1716             | -115.2 -115.2             | 0.22 (3)                | 4.06               | G-T   | -333 / 2652               | 0.20 (3)                |
| L-M    | -12849 / 1716             | -115.2 -115.2             | 0.22 (3)                | 4.06               | T-H   | -948 / 441                | 0.14 (3)                |
| M-AC   | -12902 / 1058             | -115.2 -115.2             | 0.19 (2)                | 4.07               | Y-Z   | -267 / 1937               | 0.00 (1)                |
| AC-AB  | -12902 / 1058             | -115.2 -115.2             | 0.19 (2)                | 4.07               | Y-C   | -4076 / 783               | 0.25 (1)                |
| AB-N   | -17284 / 1221             | -115.2 -115.2             | 0.22 (3)                | 3.55               | M-AA  | -10912 / 784              | 0.68 (1)                |
| N-O    | 0 / 6                     | -115.2 -115.2             | 0.03 (3)                | 10.00              | AA-AB | -268 / 6584               | 0.00 (1)                |
|        |                           |                           |                         |                    |       |                           |                         |
| B-Y    | -1037 / 3692              | -39.5 -39.5               | 0.09 (2)                | 6.25               |       |                           |                         |
| Y-X    | -1663 / 6922              | -39.5 -39.5               | 0.13 (2)                | 6.25               |       |                           |                         |
| X-W    | -1663 / 6915              | -39.5 -39.5               | 0.11 (2)                | 6.25               |       |                           |                         |
| W-V    | -1446 / 8877              | -39.5 -39.5               | 0.11 (1)                | 6.25               |       |                           |                         |
| V-U    | -1446 / 8877              | -39.5 -39.5               | 0.11 (1)                | 6.25               |       |                           |                         |
| U-T    | -1088 / 6334              | -39.5 -39.5               | 0.11 (1)                | 6.25               |       |                           |                         |
| T-S    | -864 / 7944               | -39.5 -39.5               | 0.12 (1)                | 6.25               |       |                           |                         |
| S-R    | -1201 / 11541             | -39.5 -39.5               | 0.18 (1)                | 6.25               |       |                           |                         |
| R-Q    | -1201 / 11541             | -39.5 -39.5               | 0.18 (1)                | 6.25               |       |                           |                         |
| Q-P    | -1420 / 19891             | -39.5 -39.5               | 0.32 (3)                | 6.25               |       |                           |                         |
| P-AD   | -1420 / 20163             | -39.5 -39.5               | 0.46 (3)                | 6.25               |       |                           |                         |

# DESIGN CRITERIA

## SPECIFIED LOADS:

|              |      |      |     |
|--------------|------|------|-----|
| TOP CH.      | LL = | 33.4 | PSF |
| DL =         | 6.0  | PSF  |     |
| BOT CH.      | LL = | 10.5 | PSF |
| DL =         | 7.4  | PSF  |     |
| TOTAL LOAD = | 57.3 | PSF  |     |

SPACING = 24.0 IN. C/C

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

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBC 2015

THIS DESIGN COMPLIES WITH:  
- PART 4 OF CBC 2018, ABC 2019  
- PART 4 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

## DESIGN ASSUMPTIONS

- SLOPE REDUCTION FACTOR USED

(80 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 33.4 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.44")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")  
ALLOWABLE DEFL.(TL) = L/180 (2.88")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.22/1.00 (K-M:3), BC=0.48/1.00 (P-AA:3), WB=0.68/1.00 (M-AA:1), SSI=0.45/1.00 (F-G:3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00  
WIND LOAD IMPORTANCE FACTOR = 1.00  
LIVE LOAD IMPORTANCE FACTOR = 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(PSI) | SHEAR (PSI) | SECTION (PL) |
|-------------|-----------------|-------------|--------------|
| MT20        | 650             | 371         | 1747         |
|             | 788             | 1987        | 1873         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.76 (N) (INPUT = 1.00)



Structural component only  
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CONTINUED ON PAGE 2

|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>424915              | TRUSS NAME<br>T86 | QUANTITY<br>1 | PLY<br>3 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                              |          |

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2x10 4 4

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

**PLATES (table is in inches)**

| JT         | TYPE     | PLATES | W    | LEN  | Y    | X    |
|------------|----------|--------|------|------|------|------|
| B          | TMBMW1-I | MT20   | 10.0 | 12.0 | 4.25 |      |
| C          | TMWWW-t  | MT20   | 7.0  | 16.0 | 3.25 | 3.25 |
| D          | TS-t     | MT20   | 5.0  | 6.0  |      |      |
| E          | TMWWW-t  | MT20   | 4.0  | 6.0  | 3.00 | 1.00 |
| F, G, I, J |          |        |      |      |      |      |
| F          | TTWW-m   | MT20   | 6.0  | 7.0  | 2.75 | 2.00 |
| H          | TMW-w    | MT20   | 3.0  | 8.0  |      |      |
| J          | TTWW-m   | MT20   | 6.0  | 7.0  | 2.75 | 2.00 |
| K          | TMWWW-t  | MT20   | 4.0  | 6.0  | 3.00 | 1.00 |
| L          | TS-t     | MT20   | 5.0  | 6.0  |      |      |
| M          | TMWWW-t  | MT20   | 7.0  | 16.0 | 3.25 | 3.25 |
| N          | TMBMW1-I | MT20   | 10.0 | 12.0 | 4.25 | Edge |
| P          | BMW-w    | MT20   | 7.0  | 12.0 | 6.50 | 3.50 |
| Q          | BMWW-t   | MT20   | 6.0  | 7.0  |      |      |
| R          | BS-t     | MT20   | 6.0  | 7.0  |      |      |
| S          | BMWW-t   | MT20   | 5.0  | 6.0  |      |      |
| T          | BMWWW-t  | MT20   | 6.0  | 7.0  |      |      |
| U          | BMWW-t   | MT20   | 5.0  | 6.0  |      |      |
| V          | BS-t     | MT20   | 6.0  | 7.0  |      |      |
| W          | BMWW-t   | MT20   | 6.0  | 7.0  |      |      |
| X          | BMW-w    | MT20   | 7.0  | 12.0 | 6.50 | 3.50 |

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

**NOTES-** (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

**LOADING**

TOTAL LOAD CASES: (18)

| CHORDS |               |                  |                  | WEBS  |               |                  |                  |
|--------|---------------|------------------|------------------|-------|---------------|------------------|------------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | FORCE (LBS)   | VERT. LOAD (PLF) | LC1 MAX CSI (LC) |
| FR-AA  | -1420 / 20163 | -39.5            | -39.5 0.46 (3)   | FR-AA | -1420 / 20163 | -39.5            | -39.5 0.46 (3)   |
| AA-N   | -793 / 11467  | -39.5            | -39.5 0.21 (3)   | AA-N  | -793 / 11467  | -39.5            | -39.5 0.21 (3)   |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|------|------|-------|------|-------|
| P  | 38-0-8  | -6918 | -6918 | --   | BACK | VERT | TOTAL | --   | C1    |
| AC | 41-6-12 | -127  | -180  | --   | TOP  | VERT | TOTAL | --   | C1    |
| AD | 39-6-12 | -1165 | -1165 | --   | BACK | VERT | TOTAL | --   | C1    |

**CONNECTION REQUIREMENTS**

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

**TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING**

AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF (9.6) PSF AT (40-0-0) FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS,  $C_{pe}$ , BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON OPEN TERRAIN, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-IN-SX AWAY FROM EAVE. TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

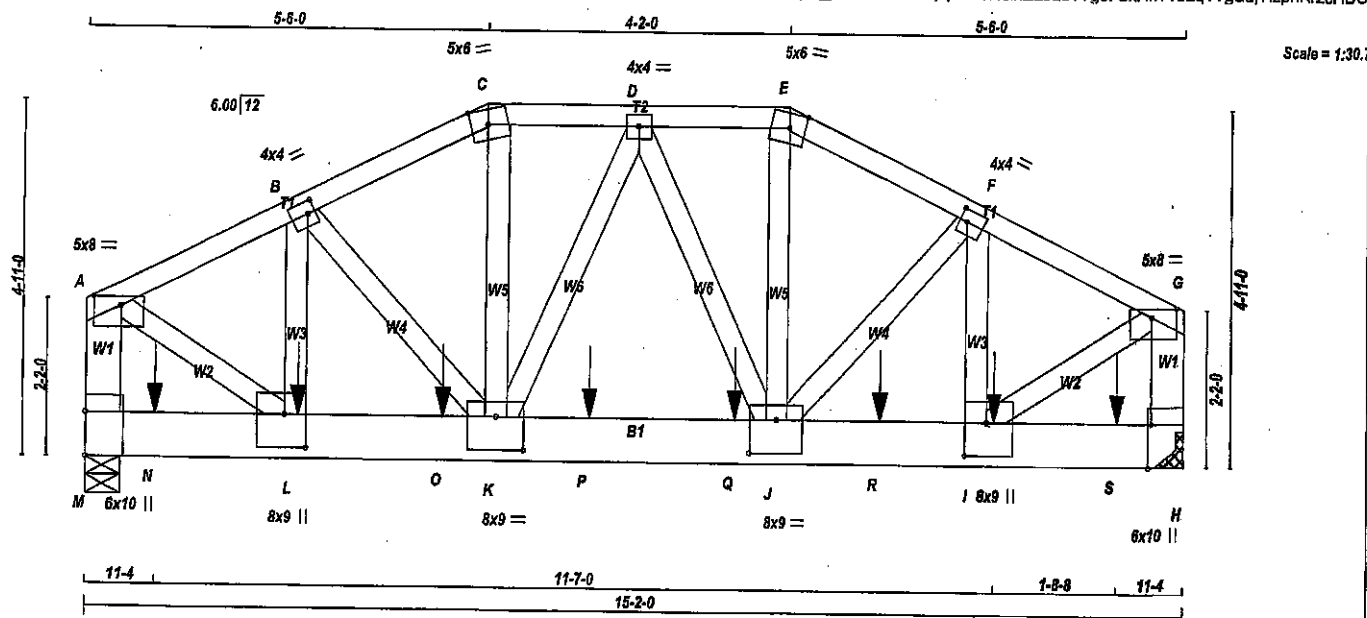


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|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 424915   | T87        | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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Scale = 1/32"

| LUMBER          | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------|-------------------|--------|------|--------|--------|
| A - C           | 2x4               | DRY    | No.2 | SPF    |        |
| C - E           | 2x4               | DRY    | No.2 | SPF    |        |
| E - G           | 2x4               | DRY    | No.2 | SPF    |        |
| M - A           | 2x6               | DRY    | No.2 | SPF    |        |
| H - G           | 2x6               | DRY    | No.2 | SPF    |        |
| M - H           | 2x8               | DRY    | No.2 | SPF    |        |
| ALL WEBS EXCEPT | 2x4               | DRY    | No.2 | SPF    |        |

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF)   |
|------------------------------------------|----------------------|--------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |              |
| A - C 1                                  | 12                   | TOP          |
| C - E 1                                  | 12                   | TOP          |
| E - G 1                                  | 12                   | TOP          |
| M - A 2                                  | 12                   | TOP          |
| H - G 2                                  | 12                   | TOP          |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |              |
| M - H 2                                  | 12                   | SIDE (183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |              |
| B - L 1                                  | 3                    | SIDE (389.8) |
| F - I 1                                  | 3                    | SIDE (389.8) |
| 2x4 1                                    | 6                    | SIDE (389.8) |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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     |
| M  | 9416                    | 0                               | 9416      | 0        |
| H  | 9827                    | 0                               | 9827      | 0        |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 5'-0."

#### UNFACTORED REACTIONS

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | DEAD  | SOIL       |
|----|----------|-------------------------------|-------|------------|
| JT | COMBINED | SNOW                          | LIVE  | PERM. LIVE |
| M  | 6843     | 4449 / 0                      | 0 / 0 | 0 / 0      |
| H  | 6933     | 4643 / 0                      | 0 / 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 = 3.12 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             | W E B S | MAX. FACTORED |
|--------|---------------|----------------------|---------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (LBS)     | MEMB.   | FORCE (LBS)   |
| FR-TO  |               | FROM TO              | FR-TO   |               |
| A-B    | -7940 / 0     | -91.8 -91.8 0.29 (1) | L-B     | -1113 / 0     |
| B-C    | -8520 / 0     | -91.8 -91.8 0.30 (1) | B-K     | 0 / 777       |
| C-D    | -7728 / 0     | -91.8 -91.8 0.24 (1) | K-C     | 0 / 3559      |
| D-E    | -7913 / 0     | -91.8 -91.8 0.25 (1) | K-D     | -277 / 0      |
| E-F    | -8723 / 0     | -91.8 -91.8 0.31 (1) | D-J     | 0 / 190       |
| F-G    | -8394 / 0     | -91.8 -91.8 0.32 (1) | J-E     | 0 / 3648      |
| M-A    | -7858 / 0     | 0.0 0.0 0.30 (1)     | J-F     | 0 / 437       |
| H-G    | -8301 / 0     | 0.0 0.0 0.32 (1)     | F-I     | -742 / 0      |
|        |               |                      | A-L     | 0 / 8235      |
|        |               |                      | I-G     | 0 / 6706      |
| M-N    | 0 / 0         | -18.5 -18.5 0.36 (1) |         |               |
| N-L    | 0 / 0         | -18.5 -18.5 0.36 (1) |         |               |
| L-O    | 0 / 7100      | -18.5 -18.5 0.63 (1) |         |               |
| O-K    | 0 / 7100      | -18.5 -18.5 0.63 (1) |         |               |
| K-P    | 0 / 7838      | -18.5 -18.5 0.74 (1) |         |               |
| P-Q    | 0 / 7838      | -18.5 -18.5 0.74 (1) |         |               |
| Q-J    | 0 / 7838      | -18.5 -18.5 0.74 (1) |         |               |
| J-R    | 0 / 7506      | -18.5 -18.5 0.67 (1) |         |               |
| R-I    | 0 / 7506      | -18.5 -18.5 0.67 (1) |         |               |
| I-S    | 0 / 0         | -18.5 -18.5 0.35 (1) |         |               |
| S-H    | 0 / 0         | -18.5 -18.5 0.35 (1) |         |               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LCC     | LC1   | MAX.  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| I  | 12-8-4  | -1849 | -1849 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L  | 2-11-4  | -1849 | -1849 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 11-4    | -1550 | -1550 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 4-11-4  | -1549 | -1549 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 8-11-4  | -1549 | -1549 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Q  | 8-11-4  | -1549 | -1549 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| R  | 10-11-4 | -1549 | -1549 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 14-2-12 | -1550 | -1550 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 100 = 201 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 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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 (0.61")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.07")  
ALLOWABLE DEFL. (TL) = L/360 (0.61")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.13")

CS: TC=0.32/1.00 (G-H:1), BC=0.74/1.00 (J-K:1), WB=0.77/1.00 (G-I:1), SS=0.78/1.00 (J-K: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 (PSI) | SECTION (PLI) |
|-------|------------|-------------|---------------|
| MT20  | 650        | 371         | 1747          |
|       | 788        | 1987        | 1873          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (E) (INPUT = 0.90)  
JSI METAL = 0.85 (I) (INPUT = 1.00)



Structural component only  
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|                                 |            |             |     |                 |          |
|---------------------------------|------------|-------------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.       | DRWG NO. |
| 424915                          | T87        | 1           | 2   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            | TRUSS DESC. |     |                 |          |

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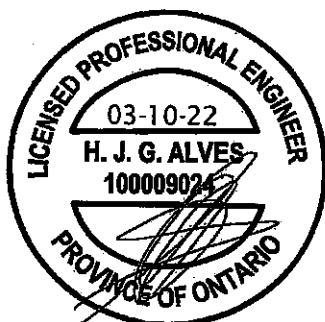
**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN  | Y    | X    |
|----|--------|--------|-----|------|------|------|
| A  | TMVW-p | MT20   | 5.0 | 8.0  | 1.50 | 4.25 |
| B  | TMWW-t | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| C  | TTW-m  | MT20   | 5.0 | 6.0  | 2.50 | 2.75 |
| D  | TMWW-t | MT20   | 4.0 | 4.0  |      |      |
| E  | TTW-m  | MT20   | 5.0 | 6.0  | 2.50 | 2.75 |
| F  | TMWW-t | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| G  | TMVW-p | MT20   | 5.0 | 8.0  | 1.50 | 4.25 |
| H  | BMV1-t | MT20   | 6.0 | 10.0 | Edge | 0.50 |
| I  | BMWW-t | MT20   | 8.0 | 9.0  | 5.50 | 3.50 |
| J  | BMWW-t | MT20   | 8.0 | 9.0  | 5.50 | 4.50 |
| K  | BMWW-t | MT20   | 8.0 | 9.0  | 5.50 | 4.50 |
| L  | BMWW-t | MT20   | 8.0 | 9.0  | 5.50 | 3.50 |
| M  | BMV1-t | MT20   | 6.0 | 10.0 | 7.25 |      |

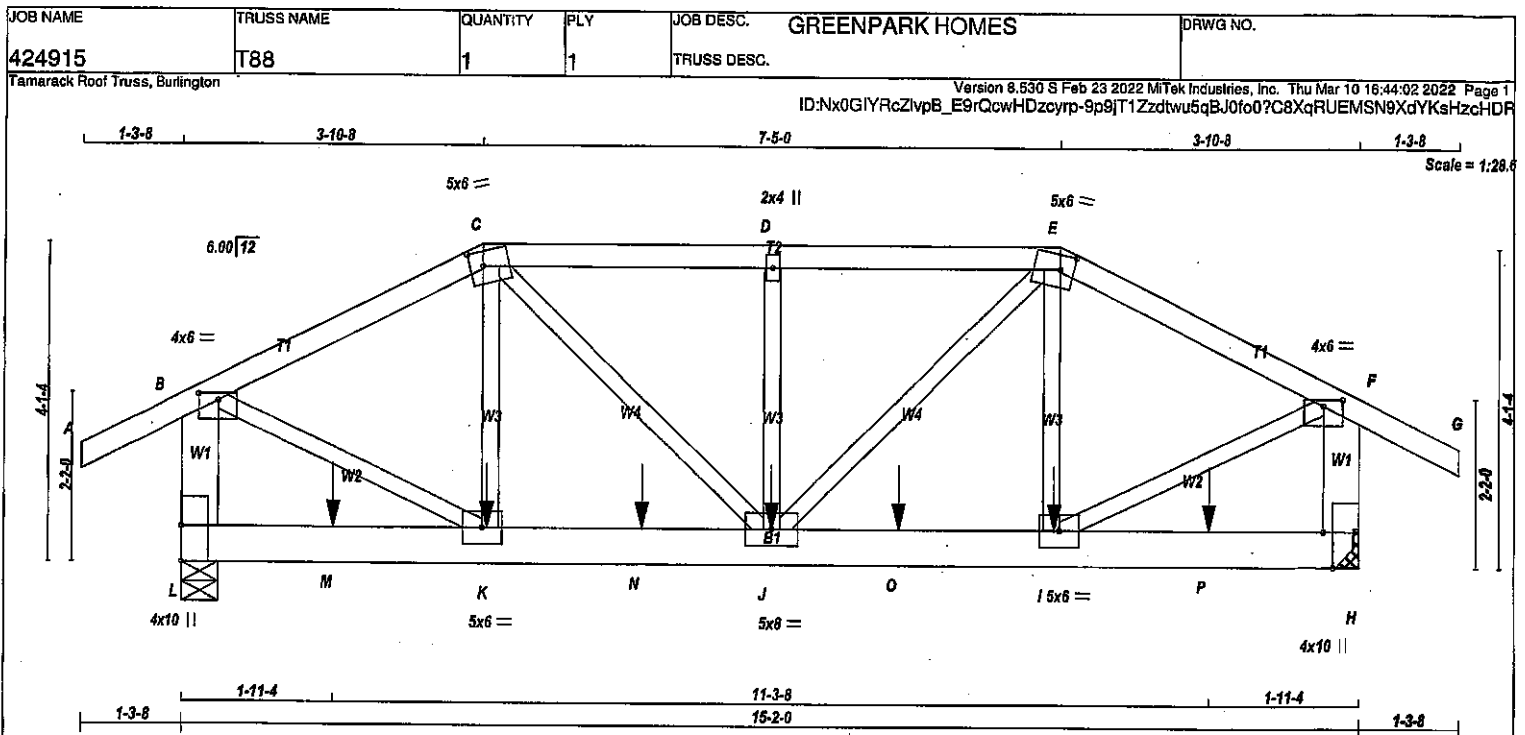
Edge - INDICATES REFERENCE CORNER OF PLATE  
TOUCHES EDGE OF CHORD.

**NOTES- (1)**

1) Lateral braces to be a minimum of 2X4 SPF #2.



Structural component only  
DWG# T-2206826



| LUMBER            |        |      |        |
|-------------------|--------|------|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
| A - C             | 2x4    | DRY  | No.2   |
| C - E             | 2x4    | DRY  | No.2   |
| E - G             | 2x4    | DRY  | No.2   |
| L - B             | 2x6    | DRY  | No.2   |
| H - F             | 2x6    | DRY  | No.2   |
| L - H             | 2x6    | DRY  | No.2   |
| ALL WEBS EXCEPT   | 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 | 6.0  | 1.00 | 3.00 |
| C  | TTWW-m  | MT20   | 5.0 | 6.0  | 2.25 | 2.00 |
| D  | TMW-w   | MT20   | 2.0 | 4.0  |      |      |
| E  | TTWW-m  | MT20   | 5.0 | 6.0  | 2.25 | 2.00 |
| F  | TMVW-p  | MT20   | 4.0 | 6.0  | 1.00 | 3.00 |
| H  | BMV1+p  | MT20   | 4.0 | 10.0 | Edge | 1.50 |
| I  | BMWW-l  | MT20   | 5.0 | 6.0  |      |      |
| J  | BMWWW-l | MT20   | 5.0 | 8.0  |      |      |
| K  | BMWW-l  | MT20   | 5.0 | 6.0  |      |      |
| L  | BMV1+p  | MT20   | 4.0 | 10.0 | 5.50 |      |

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

#### NOTES - (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| L  | 1681                    | 0                               | 1681      | 0        |
| H  | 1681                    | 0                               | 1681      | 0        |

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

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|-------|-------|------------|-------|---------|-------|
| L  | 1180     | 822 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 359 / 0 | 0 / 0 |
| H  | 1180     | 822 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 359 / 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 = 4.77 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 |                           |                           |                                | WEBS  |                           |                                |          |
|--------|---------------------------|---------------------------|--------------------------------|-------|---------------------------|--------------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1) |          |
| FR-TO  |                           | FROM TO                   |                                | FR-TO |                           |                                |          |
| A-B    | 0 / 28                    | -91.8 -91.8               | 0.13 (1)                       | 10.00 | K-C                       | -57 / 30                       | 0.01 (1) |
| B-C    | -1483 / 0                 | -91.8 -91.8               | 0.30 (1)                       | 5.00  | C-J                       | 0 / 574                        | 0.14 (1) |
| C-D    | -1729 / 0                 | -91.8 -91.8               | 0.25 (1)                       | 4.77  | J-D                       | -405 / 0                       | 0.10 (1) |
| D-E    | -1729 / 0                 | -91.8 -91.8               | 0.25 (1)                       | 4.77  | J-E                       | 0 / 574                        | 0.14 (1) |
| E-F    | -1483 / 0                 | -91.8 -91.8               | 0.30 (1)                       | 5.00  | I-E                       | -57 / 30                       | 0.01 (1) |
| F-G    | 0 / 28                    | -91.8 -91.8               | 0.13 (1)                       | 10.00 | B-K                       | 0 / 1451                       | 0.36 (1) |
| L-B    | -1559 / 0                 | 0.0 0.0                   | 0.12 (1)                       | 7.81  | I-F                       | 0 / 1451                       | 0.36 (1) |
| H-F    | -1559 / 0                 | 0.0 0.0                   | 0.12 (1)                       | 7.81  |                           |                                |          |
| L-M    | 0 / 0                     | -18.5 -18.5               | 0.15 (1)                       | 10.00 |                           |                                |          |
| M-K    | 0 / 0                     | -18.5 -18.5               | 0.15 (1)                       | 10.00 |                           |                                |          |
| K-N    | 0 / 1324                  | -18.5 -18.5               | 0.27 (1)                       | 10.00 |                           |                                |          |
| N-J    | 0 / 1324                  | -18.5 -18.5               | 0.27 (1)                       | 10.00 |                           |                                |          |
| J-O    | 0 / 1324                  | -18.5 -18.5               | 0.27 (1)                       | 10.00 |                           |                                |          |
| O-I    | 0 / 1324                  | -18.5 -18.5               | 0.27 (1)                       | 10.00 |                           |                                |          |
| I-P    | 0 / 0                     | -18.5 -18.5               | 0.15 (1)                       | 10.00 |                           |                                |          |
| P-H    | 0 / 0                     | -18.5 -18.5               | 0.15 (1)                       | 10.00 |                           |                                |          |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| I  | 11-2-12 | -136 | -136 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| J  | 7-7-0   | -136 | -136 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| K  | 3-11-4  | -136 | -136 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| N  | 1-11-4  | -163 | -163 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| M  | 5-11-4  | -136 | -136 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| O  | 9-2-12  | -136 | -136 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| P  | 13-2-12 | -163 | -163 | ---  | BACK | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

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

##### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 25.6 PSF |
| DL = 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 2015

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- 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 (0.51")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.51")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.30/1.00 (E-F:1), BC=0.27/1.00 (I-J:1), WB=0.38/1.00 (B-K:1), SSI=0.18/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

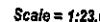
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)  
JSI METAL= 0.34 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2206827

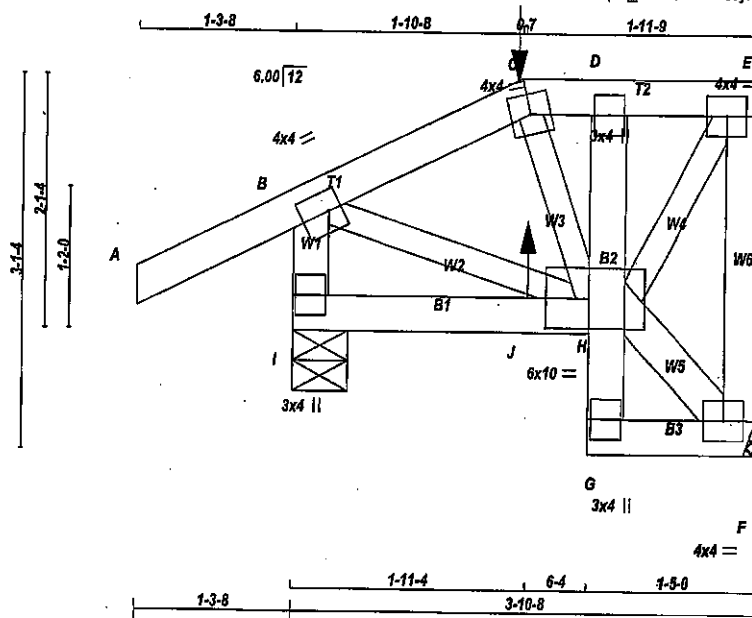


JSI GRIP= 0.34 (D) (INPUT = 0.90 )  
JSI METAL= 0.08 (B) (INPUT = 1.00 )



|                                 |            |          |     |                 |          |
|---------------------------------|------------|----------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
| 424915                          | T90        | 2        | 1   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                 |          |

Version 8.530 S Feb 23 2022 MITek Industries, Inc. Thu Mar 10 16:44:04 2022 Page 1  
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Scale = 1:18.4

| LUMBER                |        |      |        |
|-----------------------|--------|------|--------|
| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
| A - C                 | 2x4    | DRY  | No.2   |
| C - E                 | 2x4    | DRY  | No.2   |
| F - H                 | 2x4    | DRY  | No.2   |
| I - B                 | 2x4    | DRY  | No.2   |
| J - D                 | 2x4    | DRY  | No.2   |
| K - F                 | 2x4    | DRY  | No.2   |
| L - H                 | 2x4    | DRY  | No.2   |
| M - I                 | 2x4    | DRY  | No.2   |
| N - J                 | 2x4    | DRY  | No.2   |
| O - K                 | 2x4    | DRY  | No.2   |
| P - L                 | 2x4    | DRY  | No.2   |
| Q - M                 | 2x4    | DRY  | No.2   |
| R - N                 | 2x4    | DRY  | No.2   |
| S - O                 | 2x4    | DRY  | No.2   |
| T - P                 | 2x4    | DRY  | No.2   |
| U - Q                 | 2x4    | DRY  | No.2   |
| V - R                 | 2x4    | DRY  | No.2   |
| W - S                 | 2x4    | DRY  | No.2   |
| X - T                 | 2x4    | DRY  | No.2   |
| Y - U                 | 2x4    | DRY  | No.2   |
| Z - V                 | 2x4    | DRY  | No.2   |
| ALL WEBS EXCEPT H - F | 2x3    | DRY  | No.2   |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMVW-1  | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| C  | TTW-m   | MT20   | 4.0 | 4.0  |      |      |
| D  | TMV-p   | MT20   | 3.0 | 4.0  |      |      |
| E  | TMVW-1  | MT20   | 4.0 | 4.0  |      |      |
| F  | BMVW-1  | MT20   | 4.0 | 4.0  |      |      |
| G  | BMV-p   | MT20   | 3.0 | 4.0  |      |      |
| H  | BMVW-1  | MT20   | 6.0 | 10.0 | 3.00 | 3.00 |
| I  | BMV-1-p | MT20   | 3.0 | 4.0  |      |      |

#### NOTES-

- (1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| FACTORED | GROSS REACTION | MAXIMUM FACTORED | INPUT | RECORD |
|----------|----------------|------------------|-------|--------|
| JT       | VERT           | HORZ             | DOWN  | HORZ   |
| F        | 251            | 0                | 251   | 0      |
| I        | 376            | 0                | 376   | 0      |

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

#### UNFACTORED REACTIONS

| 1ST CASE |          | MAX./MIN. COMPONENT REACTIONS |       |            |       |        |       |
|----------|----------|-------------------------------|-------|------------|-------|--------|-------|
| JT       | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
| F        | 177      | 116 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 61 / 0 | 0 / 0 |
| I        | 264      | 186 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 78 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (9)

| CHORDS |                           |                           |                               | WEBS     |                           |                           |                               |
|--------|---------------------------|---------------------------|-------------------------------|----------|---------------------------|---------------------------|-------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) |
| FR-TO  |                           | FROM                      | TO                            | FR-TO    |                           | FROM                      | TO                            |
| A-B    | 0 / 28                    | -91.8                     | -91.8                         | 0.17 (5) | 10.00                     | H-F                       | -12 / 0                       |
| B-C    | -191 / 0                  | -91.8                     | -91.8                         | 0.06 (1) | 6.25                      | H-E                       | 0 / 218                       |
| C-D    | -130 / 0                  | -91.8                     | -91.8                         | 0.01 (1) | 6.25                      | C-H                       | -115 / 2                      |
| D-E    | -125 / 0                  | -91.8                     | -91.8                         | 0.02 (6) | 6.25                      | B-H                       | 0 / 180                       |
| E-F    | -232 / 0                  | 0.0                       | 0.0                           | 0.04 (1) | 7.81                      |                           |                               |
| F-B    | -354 / 0                  | 0.0                       | 0.0                           | 0.04 (1) | 7.81                      |                           |                               |
| I-J    | 0 / 0                     | -18.5                     | -18.5                         | 0.04 (4) | 10.00                     |                           |                               |
| J-H    | 0 / 0                     | -18.5                     | -18.5                         | 0.04 (4) | 10.00                     |                           |                               |
| G-H    | 0 / 13                    | 0.0                       | 0.0                           | 0.02 (1) | 10.00                     |                           |                               |
| H-D    | -104 / 0                  | 0.0                       | 0.0                           | 0.01 (1) | 7.81                      |                           |                               |
| G-F    | 0 / 9                     | -18.5                     | -18.5                         | 0.01 (4) | 10.00                     |                           |                               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1 | MAX. | MAX+ | FACE | DIR.  | TYPE | HEEL | CONN. |
|----|---------|-----|------|------|------|-------|------|------|-------|
| C  | 1-10-15 | -58 | 67   | BACK | VERT | TOTAL | --   | C1   |       |
| J  | 1-11-4  | 4   | 8    | BACK | 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 23 = 47 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 = 38.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- 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 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.17/1.00 (A-B:5), BC=0.04/1.00 (H-I:4), WB=0.05/1.00 (E-H:1), SS=0.12/1.00 (A-B:5)

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

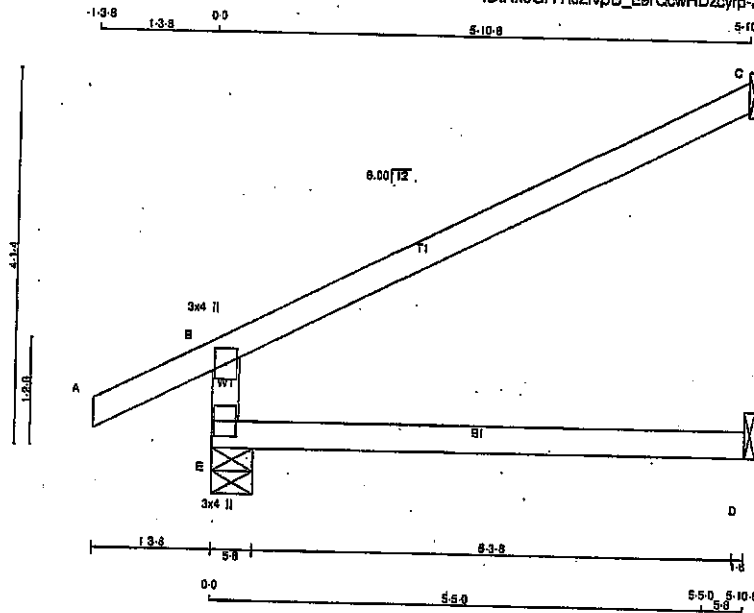
JSI GRIP= 0.28 (B) (INPUT = 0.90)  
JSI METAL= 0.10 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2206829

|                                 |                   |                |          |                              |          |
|---------------------------------|-------------------|----------------|----------|------------------------------|----------|
| JOB NAME<br>417479              | TRUSS NAME<br>J50 | QUANTITY<br>21 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |                |          |                              |          |

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

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

NOTES: (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

#### 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  | 525                     | 0    | 525                             | 0    | 5-8             | 5-8            |
| C  | 202                     | 0    | 202                             | 0    | 1-8             | 1-8            |
| D  | 45                      | 0    | 50                              | 0    | 1-8             | 1-8            |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED |       | 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 = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS           |                 | FACTORED |          | W E B S                  |       | MAX. FACTORED    |              |
|-------|------------------|-----------------|----------|----------|--------------------------|-------|------------------|--------------|
|       | MAX. FORCE (LBS) | VERT. LOAD (PL) | LO1      | MAX      | MAX. UNBRAC LENGTH FR-TO | MEMB. | MAX. FORCE (LBS) | MAX CSI (LC) |
| E-B   | -461.0           | 0.0             | 0.0      | 0.13 (4) | 7.61                     |       |                  |              |
| 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 = | 25.6 | PSF |
|            | DL = | 6.0  | PSF |
| BOT CH.    | LL = | 0.0  | PSF |
|            | DL = | 7.4  | PSF |
| TOTAL LOAD | =    | 39.0 | PSF |

SPACING = 24.0 IN. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCS 2015, ABC 2019
- PART 9 OF NBCS 2012 (2019 AMENDMENT)
- CSA C88-14
- 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=0.54/1.00 (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 (PL) | SECTION (PL) |
|-------|------------|------------|--------------|
|       | (PS)       | (PL)       | (PL)         |
| MT20  | 650        | 371        | 1747         |
|       | 788        | 1987       | 1873         |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0-Deg.

JSI GRIP = 0.18 (E) (INPUT = 0.90)  
JSI METAL = 0.13 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2108580

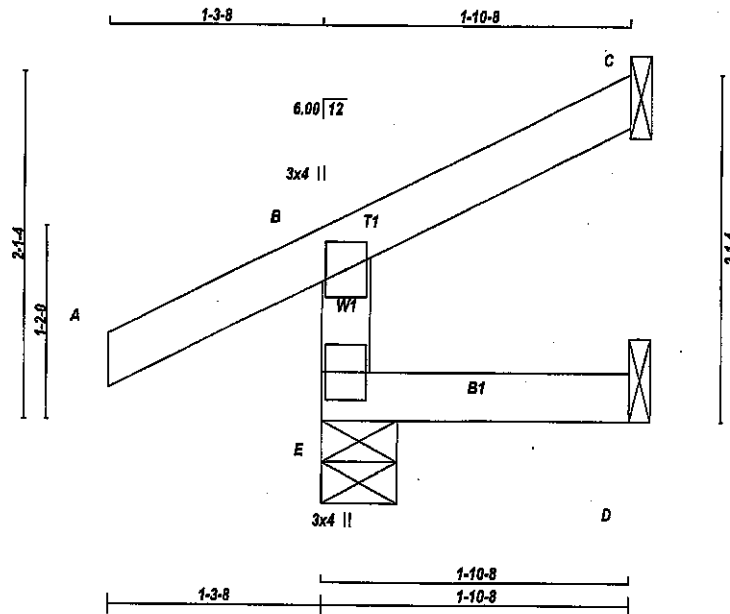




|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 424915   | J80        | 2        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.530 S Feb 23 2022 MiTek Industries, Inc. Thu Mar 10 16:43:48 2022 Page 1  
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Scale = 1/16"

| 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 |     |   |   |

NOTES- (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

#### 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 |
|----|-------------------------|---------------------------------|-----------|------------|
| VT | VERT                    | DOWN                            | IN-SX     | IN-SX      |
| E  | 273                     | 0                               | 0         | 5-8        |
| C  | 50                      | 0                               | -20       | 1-8        |
| D  | 8                       | 0                               | -2        | 1-8        |

SEE MITEK STANDARD DETAIL MSD2015-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 LOSE | MAX/MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|----------|------------------------------|-------|-------|------------|-------|--------|-------|
| E  | 190      | 143 / 0                      | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 47 / 0 | 0 / 0 |
| C  | 35       | 27 / -17                     | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 7 / 0  | 0 / 0 |
| D  | 8        | 0 / -8                       | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 12 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (5)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) |
|--------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| MEMB.  | FORCE                     | VERT. LOAD                | LC1                           | MAX                           | MAX                           | MEMB.                         | FORCE                         | MAX                           |
| FR-TO  | FROM                      | TO                        | TO                            | LENGTH                        | FR-TO                         | FR-TO                         | LENGTH                        | FR-TO                         |
| E-B    | -247 / 0                  | 0.0                       | 0.0                           | 0.04 (5)                      | 7.81                          |                               |                               |                               |
| A-B    | 0 / 28                    | -91.8                     | -91.8                         | 0.12 (1)                      | 10.00                         |                               |                               |                               |
| B-C    | -16 / 0                   | -91.8                     | -91.8                         | 0.09 (1)                      | 6.25                          |                               |                               |                               |
| E-D    | 0 / 0                     | -18.5                     | -18.5                         | 0.04 (5)                      | 10.00                         |                               |                               |                               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 7 = 14 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 2015

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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.(L) = L/360 (0.19")  
CALCULATED VERT. DEFL.(L) = 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 (A-B:0), SI=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.

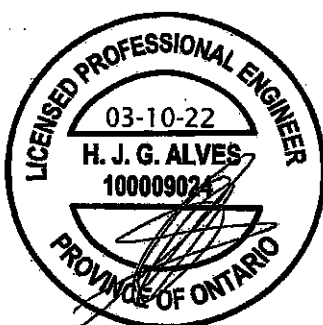
##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
| (PSI) | (PLI)     | (PLI) | (PLI)              |
| MT20  | 650       | 371   | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

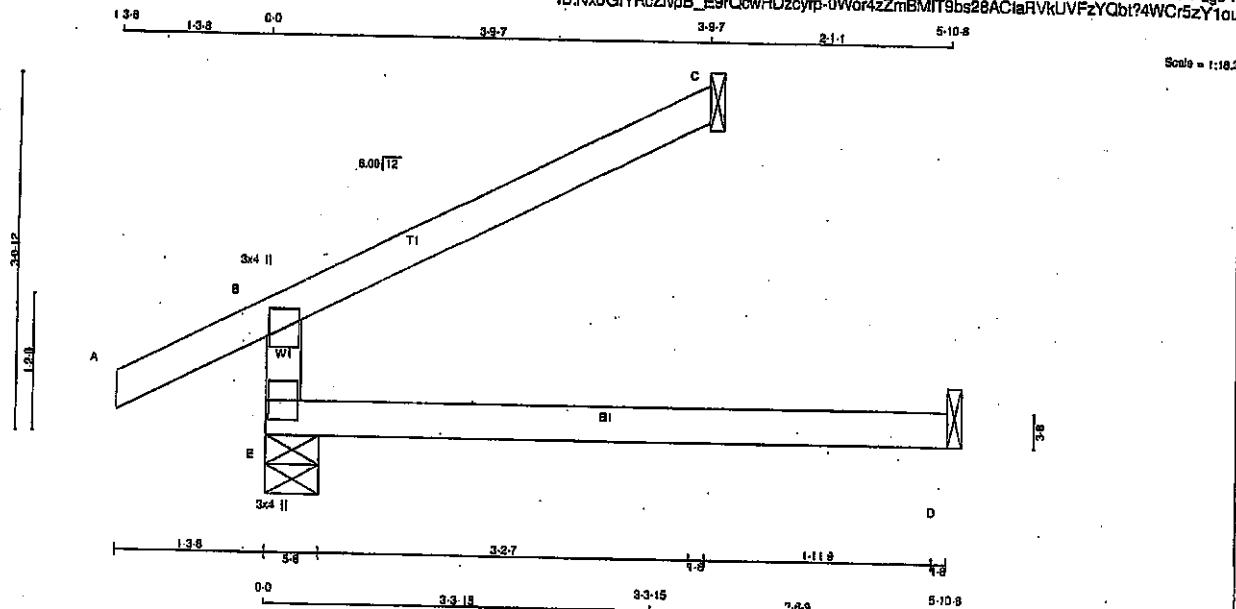
JSI GRIP= 0.10 (E) (INPUT = 0.90)  
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2206818

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>C50</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |

Version 8.420 S Jan 21 2021 Mitek Industries, Inc. Tue Mar 23 14:32:37 2021 Page 1  
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| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
|--------|-------------------|--------|------|--------|
| E - B  | 2x4 DRY           | No.2   |      |        |
| A - C  | 2x4 DRY           | No.2   |      |        |
| E - D  | 2x4 DRY           | No.2   |      |        |

DRY: SEASONED LUMBER.

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

NOTES: (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| E  | 405                     | 0    | 405                             | 0    | 5-8       | 5-8        |
| C  | 130                     | 0    | 130                             | 0    | 1-8       | 1-8        |
| D  | 45                      | 0    | 50                              | 0    | 1-8       | 1-8        |

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

#### UNFACTORED REACTIONS

| 1ST LOASE |          | MAX/MIN COMPONENT REACTIONS |      |           |      |      |      |
|-----------|----------|-----------------------------|------|-----------|------|------|------|
| JT        | COMBINED | SNOW                        | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| E         | 286      | 190.0                       | 0.0  | 0.0       | 0.0  | 36.0 | 0.0  |
| C         | 90       | 73.0                        | 0.0  | 0.0       | 0.0  | 17.0 | 0.0  |
| D         | 38       | 0.0                         | 0.0  | 0.0       | 0.0  | 36.0 | 0.0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED         |          | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|--------|---------------------------|------------------|----------|----------------------------|-------|---------------------------|---------------|
|       |        |                           | VERT. LOAD (PLF) | CSI (LC) |                            |       |                           |               |
| E-B   | -342.0 | 0.0                       | 0.0              | 0.13 (4) | 7.81                       |       |                           |               |
| A-B   | 0.28   | -91.8                     | -91.8            | 0.12 (1) | 10.00                      |       |                           |               |
| B-C   | -19.0  | -91.8                     | -91.8            | 0.22 (1) | 8.25                       |       |                           |               |
| E-D   | 0.0    | -18.5                     | -18.5            | 0.13 (4) | 10.00                      |       |                           |               |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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: TG=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

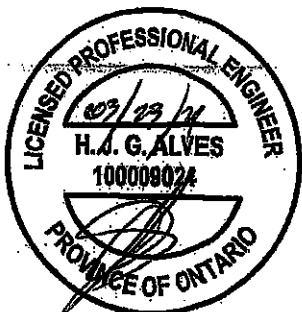
##### NAIL VALUES

| PLATE | GRIP (DRY) | SHEAR | SECTION |
|-------|------------|-------|---------|
| (PS)  | (PL)       | (PL)  | (PL)    |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 650        | 371   | 1747    |

PLATE PLACEMENT TOL = 0.250 inches

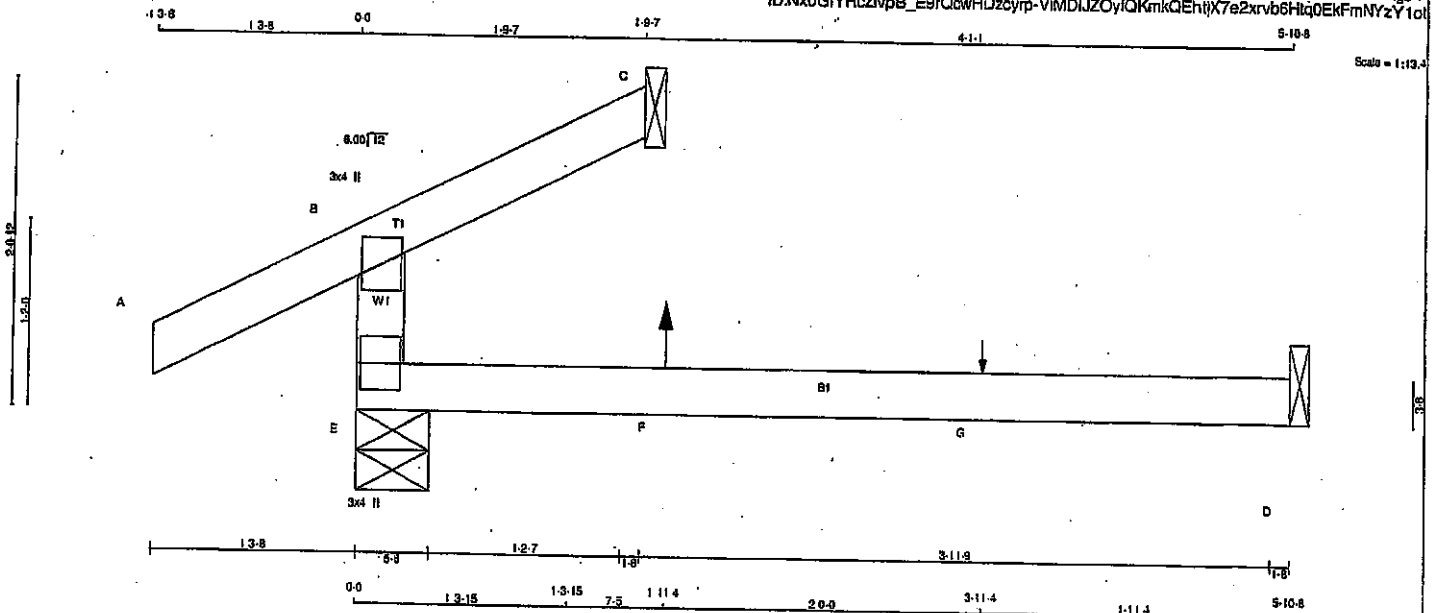
PLATE ROTATION TOL = 5.0 Deg.

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



Structural component only  
DWG# T-2108571

|                                 |                          |                      |                 |                                     |                                                                                                                                                                 |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>C51</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO.                                                                                                                                                        |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                         | Version 8.420 S Jan 21 2021 MTEK Industries, Inc. Tue Mar 23 14:32:38 2021 Page 1<br>ID:Ax0GIYRcZlvpB_E9rQowHDzcyrp-VIMDIJZOyIQKmkQEhijX7e2xrvb6Hlq0EkFmNYzY1ot |



**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 |   |   |

**NOTES:** (1)  
1) Lateral braces to be a minimum of 2x4 SPF #2.

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

**BEARINGS**

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | REGRD |
|----|------|------|------|------|--------|-------|-------|
| E  | 284  | 0    | 284  | 0    | 0      | 5-8   | 5-8   |
| C  | 63   | 0    | 63   | 0    | 0      | 1-8   | 1-8   |
| D  | 44   | 0    | 52   | 0    | 0      | 1-8   | 1-8   |

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

**UNFACTORED REACTIONS**

| JT | 1ST LOASE | COMBINED | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
|----|-----------|----------|------|------|-----------|------|------|------|
| E  | 200       | 137.0    | 0.0  | 0.0  | 0.0       | 0.0  | 62.0 | 0.0  |
| C  | 48        | 21.0     | 0.0  | 0.0  | 0.0       | 0.0  | 25.0 | 0.0  |
| D  | 35        | 0.3      | 0.0  | 0.0  | 0.0       | 0.0  | 37.0 | 0.0  |

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

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

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

**LOADING**  
TOTAL LOAD CASES: (7)

| CHORDS |                           |                           |                                | WEBS  |                           |                                |                                |
|--------|---------------------------|---------------------------|--------------------------------|-------|---------------------------|--------------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED HORZ. LOAD (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED HORZ. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
| FR-TO  |                           |                           |                                | FR-TO |                           |                                |                                |
| E-B    | -227.0                    | 0.0                       | 0.0                            | A-B   | 0.28                      | -91.8                          | -91.8                          |
| A-B    | 0.28                      | -91.8                     | -91.8                          | B-C   | -9.9                      | 0.0                            | 0.0                            |
| B-C    | -9.9                      | 0.0                       | 0.0                            | E-F   | 0.0                       | -18.5                          | -18.5                          |
| E-F    | 0.0                       | -18.5                     | -18.5                          | F-G   | 0.0                       | -18.5                          | -18.5                          |
| F-G    | 0.0                       | -18.5                     | -18.5                          | G-D   | 0.0                       | -18.5                          | -18.5                          |
| G-D    | 0.0                       | -18.5                     | -18.5                          |       |                           |                                |                                |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1 | MAX | MAX | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|-----|-----|------|------|-------|------|-------|
| F  | 1-11.4 | 5   | 1   | 8   | 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.

**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. O.C.**

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20')  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01')  
ALLOWABLE DEFL.(TL) = L/360 (0.20')  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04')

CSI: TC=0.121, 0.0 (A-B:1), BC=0.141, 0.0 (D-E:4), WB=0.001, 0.0 (A-B:1), SSI=0.091, 0.0 (A-B:1)

DOL LUMBER=0.99 NAIL=0.99 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

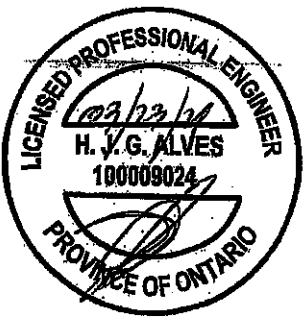
**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |
|       |           | 788   | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



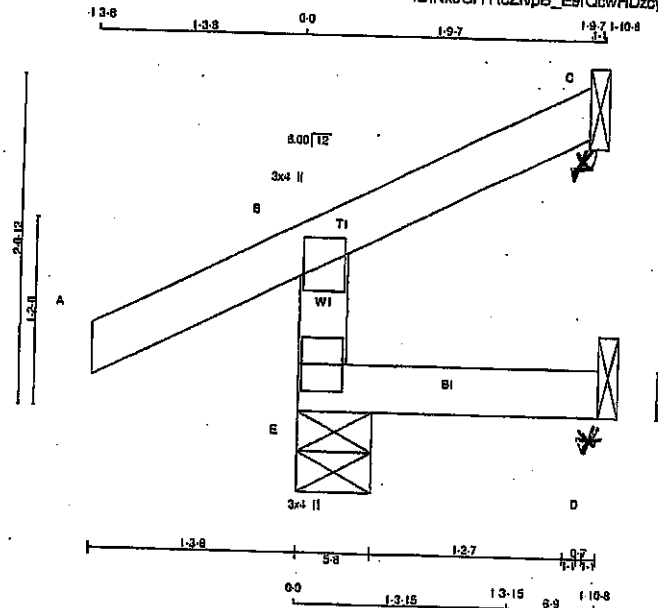
Structural component only  
DWG# T-2108572



|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 417479   | C53        | 6        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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ID:Nx0GIYRoZlvpB\_E9rCcwHDzoyr-R5U\_j7bfUHG202adpII?C37HMjU8lnKJl2ksSQzY10r



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

#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | DRY | No.2 |
|--------|------|-----|------|
| E - B  | 2x4  | DRY | No.2 |
| A - C  | 2x4  | DRY | No.2 |
| E - D  | 2x4  | DRY | No.2 |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

NOTES: (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

#### 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  | 271                     | 0    | 271                             | 0    | 5-8             | 5-8            |
| C  | 45                      | 0    | 45                              | 0    | 1-8             | 1-8            |
| D  | 8                       | 0    | 17                              | 0    | 1-8             | 1-8            |

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

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

#### UNFACTORED REACTIONS

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

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

#### BRACING

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

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS |                  | FACTORED         |           |              |                    | WEBS  |                  |                       |  |
|--------|------------------|------------------|-----------|--------------|--------------------|-------|------------------|-----------------------|--|
| MEMB.  | MAX. FORCE (LBS) | VERT. LOAD (LBS) | LO1 (PLF) | MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FORCE (LBS) | FACTORED MAX CSI (LC) |  |
| FR-TO  |                  | FROM TO          |           |              |                    | FR-TO |                  |                       |  |
| E-B    | -244 / 0         | 0.0              | 0.0       | 0.04 (5)     | 7.81               |       |                  |                       |  |
| A-B    | 0 / 28           | -91.8            | -91.8     | 0.12 (1)     | 10.00              |       |                  |                       |  |
| B-C    | -17 / 0          | -91.8            | -91.8     | 0.09 (1)     | 6.25               |       |                  |                       |  |
| E-D    | 0 / 0            | -19.5            | -18.5     | 0.04 (5)     | 10.00              |       |                  |                       |  |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 6 X 7 = 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, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (A-D:0), ES=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 (PSI) | SECTION (PLI) |
|-------|------------|-------------|---------------|
| MT20  | 850        | 371         | 1747          |
|       |            | 785         | 1987          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

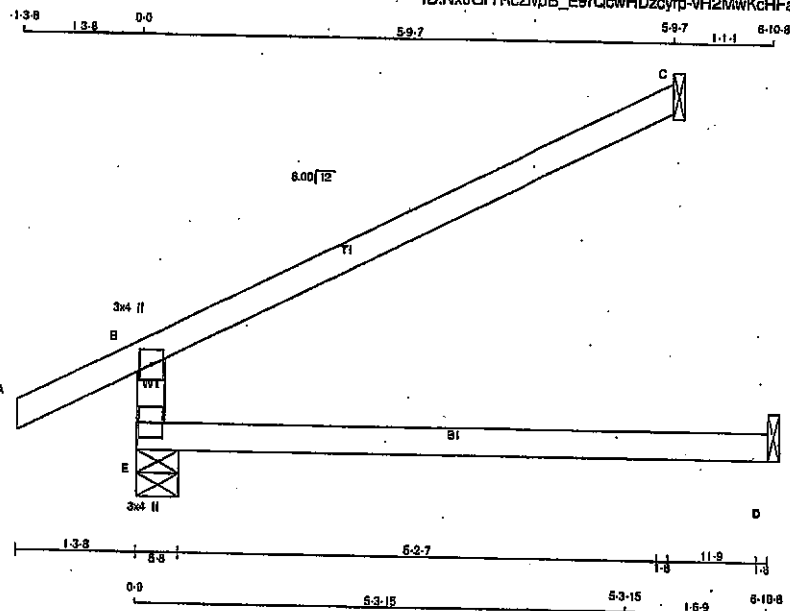
JSI GRIP = 0.10 (E) (INPUT = 0.80)  
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2108574



|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>C55</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |



#### LUMBER

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

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

#### NOTES: (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

#### 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  | 531                     | 0    | 531                             | 0    | 5-8             | 5-8            |
| C  | 199                     | 0    | 199                             | 0    | 1-8             | 1-8            |
| D  | 52                      | 0    | 58                              | 0    | 1-8             | 1-8            |

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

#### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX./MIN. COMPONENT REACTIONS |      |            |      |       |      |
|----|--------------------|-------------------------------|------|------------|------|-------|------|
|    |                    | SNOW                          | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
| E  | 374                | 254.0                         | 0.0  | 0.0        | 0.0  | 120.0 | 0.0  |
| C  | 137                | 111.0                         | 0.0  | 0.0        | 0.0  | 25.0  | 0.0  |
| D  | 42                 | 0.0                           | 0.0  | 0.0        | 0.0  | 42.0  | 0.0  |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS     |                           |                           |  |
|--------|---------------------------|---------------------------|---------------------------|----------|---------------------------|---------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED FORCE (LBS) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |  |
| FR-TO  |                           | FROM TO                   |                           | FR-TO    |                           |                           |  |
| E-B    | -458.0                    | 0.0 0.0                   | 0.18 (4)                  | 7.81     |                           |                           |  |
| A-B    | 0.28                      | -91.8                     | -91.8                     | 0.12 (1) | 10.00                     |                           |  |
| B-C    | -30.0                     | -91.8                     | -91.8                     | 0.40 (1) | 6.25                      |                           |  |
| E-D    | 0.0                       | -18.5                     | -18.5                     | 0.19 (4) | 10.00                     |                           |  |

TOTAL WEIGHT = 18 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, NBCG 2015

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TFC 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 (0.23")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.23")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.40/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (na:0), SSI=0.23/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.18 (E) (INPUT = 0.90)  
JSI METAL = 0.13 (B) (INPUT = 1.00)

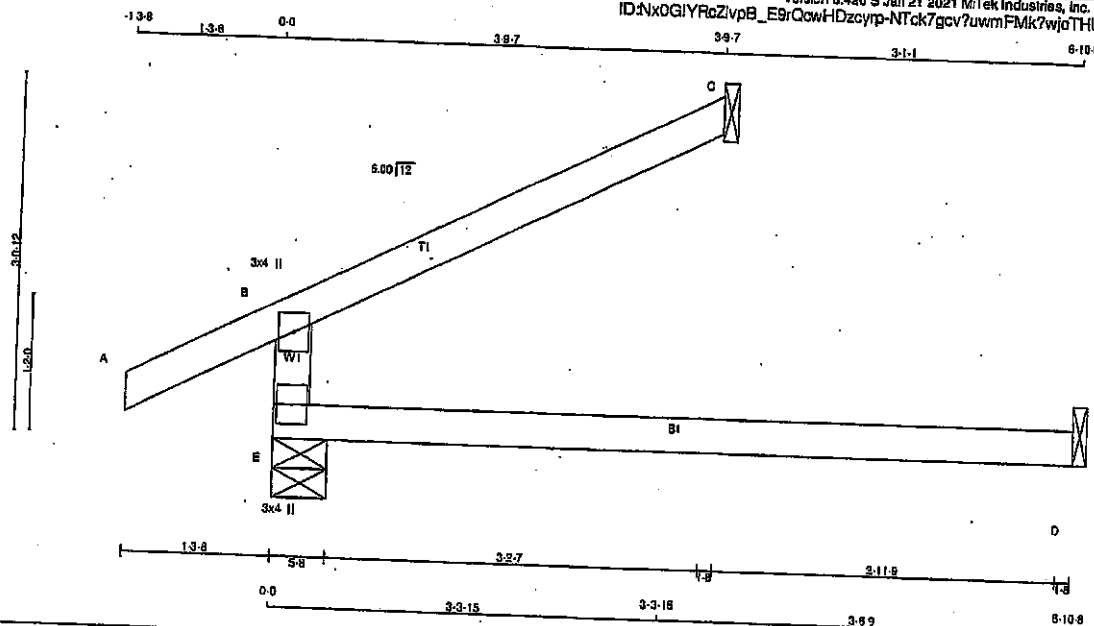


Structural component only  
DWG# T-2108576

|                                 |                          |                      |                 |                                     |             |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|-------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>C56</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | TRUSS DESC. | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |             |          |

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Scale = 1:18.2



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

DRY: SEASONED LUMBER.

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

NOTES: (1)

1) Lateral braces to be a minimum of 2X4 SPF #2.

# 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  | 417                     | 0    | 417                             | 0    | 5-8             | 6-8            |
| C  | 130                     | 0    | 130                             | 0    | 1-8             | 1-8            |
| D  | 52                      | 0    | 52                              | 0    | 1-8             | 1-8            |

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) E, C, D

## UNFACTORED REACTIONS

| JT | 1ST CASE COMBINED | SNOW  | LIVE | PERM. LIVE | WIND | DEAD  | SOIL |
|----|-------------------|-------|------|------------|------|-------|------|
| E  | 295               | 190.0 | 0.0  | 0.0        | 0.0  | 105.0 | 0.0  |
| C  | 90                | 73.0  | 0.0  | 0.0        | 0.0  | 17.0  | 0.0  |
| D  | 42                | 0.0   | 0.0  | 0.0        | 0.0  | 42.0  | 0.0  |

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

## BRACING

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

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

## LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                | WEBS     |                           |                           |                           |
|--------|---------------------------|---------------------------|----------------|----------|---------------------------|---------------------------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LOAD (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                           |                | FR-TO    |                           |                           |                           |
| E-B    | -342.0                    | 0.0                       | 0.0            | 0.16 (4) | 7.81                      |                           |                           |
| A-B    | 0.28                      | -91.8                     | -91.8          | 0.12 (1) | 10.00                     |                           |                           |
| B-C    | -19.0                     | -91.8                     | -91.8          | 0.17 (1) | 6.25                      |                           |                           |
| E-D    | 0.0                       | -18.5                     | -18.5          | 0.19 (4) | 10.00                     |                           |                           |

TOTAL WEIGHT = 15 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. G/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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 (0.23")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")  
ALLOWABLE DEFL. (TL) = L/360 (0.23")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.06")

CSI: TC=0.17/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (max), 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

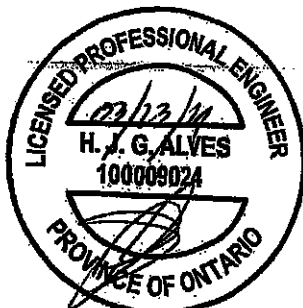
| PLATE GRIP (DRY) | SHEAR    | SECTION   |
|------------------|----------|-----------|
| (PSI)            | (PL)     | (PL)      |
| MAX MIN          | MAX MIN  | MAX MIN   |
| MT20 650 371     | 1747 788 | 1987 1873 |

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.90)

JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only  
DWG# T-2108577

1-9-8 1-3-8 0-0 1-8-7 1-9-7 5-1-1 8-10-8

Version 8.420 S Jan 21 2021 MiTek Industries, Inc. Tue Mar 23 14:32:42 2021 Page 1  
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Scale = 1:15.2



NOTES: (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

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

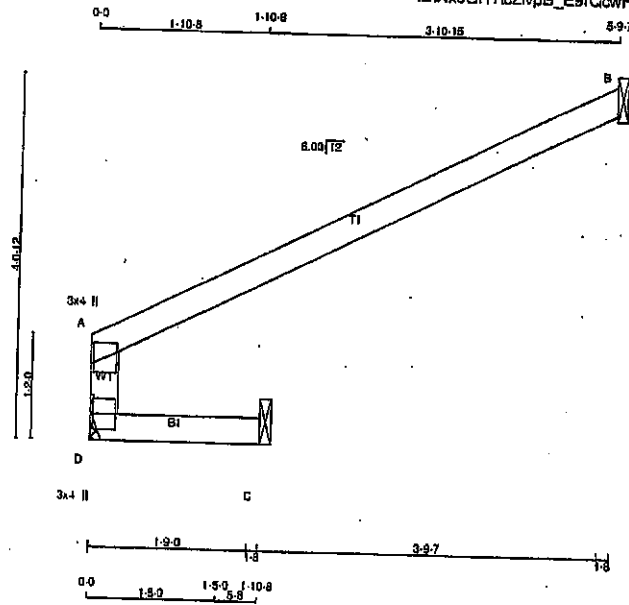
SI GRIP= 0.09 (E) (INPUT = 0.90 )  
SI METAL= 0.06 (B) (INPUT = 1.00 )



|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>417479</b>       | TRUSS NAME<br><b>C58</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          | TRUSS DESC.          |                 |                                     |          |

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Scale = 1/23.5



#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

#### NOTES - (1)

1) Lateral braces to be a minimum of 2x4 SPF #2.

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | RECORD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |            |
| D  | 201                     | 0    | 201                             | 0    | 1-8       | 1-8        |
| B  | 226                     | 0    | 226                             | 0    | 1-8       | 1-8        |
| C  | 138                     | 0    | 138                             | 0    | 1-8       | 1-8        |

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

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

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX./MIN. COMPONENT REACTIONS |       |            |       |        |       |
|----|----------|-------------------------------|-------|------------|-------|--------|-------|
|    | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
| D  | 141      | 102 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 38 / 0 | 0 / 0 |
| B  | 156      | 125 / 0                       | 0 / 0 | 0 / 0      | 0 / 0 | 30 / 0 | 0 / 0 |
| C  | 97       | 68 / 0                        | 0 / 0 | 0 / 0      | 0 / 0 | 29 / 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)

| MEMB. | CHORDS                    |                  | FACTORED         |                           | WEBS                      |                           |
|-------|---------------------------|------------------|------------------|---------------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | VERT. LOAD (PLF) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| D-A   | -305.0                    | 0.0              | 0.0              | 0.28 (1)                  | 7.81                      |                           |
| A-B   | -17.0                     | -91.8            | -91.8            | 0.38 (1)                  | 6.25                      |                           |
| D-C   | 0.0                       | -18.5            | -18.5            | 0.31 (1)                  | 10.00                     |                           |

TOTAL WEIGHT = 10 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 2015

##### THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.38/1.00 (A-B:1), BC=0.31/1.00 (C-D:1), WB=0.00/1.00 (n/a:0), SS=0.21/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE GRIP (DRY) | SHEAR   | SECTION  |
|------------------|---------|----------|
| (PSI)            | (PL)    | (PL)     |
| MAX MIN          | MAX MIN | MAX MIN  |
| MT20             | 650 371 | 1747 788 |
|                  | 1987    | 1873     |

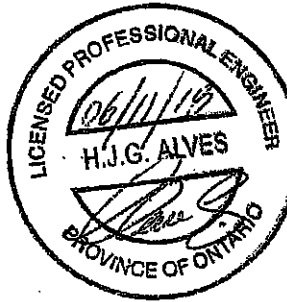
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.12 (D) (INPUT=0.90)  
JSI METAL=0.08 (A) (INPUT=1.00)



Structural component only  
DWG# T-2108579



## Alves Engineering Services Inc.

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

### RESPONSABILITIES

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

### SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet M117473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1800218

Feb 09, 2018

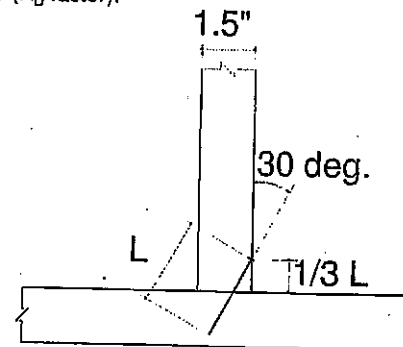
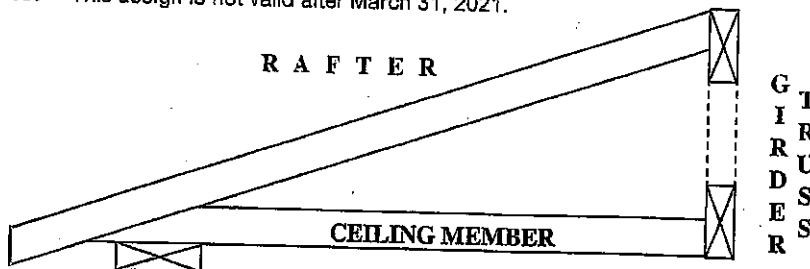
# BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

| NAIL TYPE        | LENGTH<br>(IN) | DIAMETER<br>(IN) | NAIL LATERAL CAPACITY (LB) |        |
|------------------|----------------|------------------|----------------------------|--------|
|                  |                |                  | S-P-F                      | D. FIR |
| COMMON<br>WIRE   | 3.00           | 0.144            | 132                        | 147    |
|                  | 3.25           | 0.144            | 132                        | 147    |
|                  | 3.50           | 0.160            | 159                        | 177    |
| COMMON<br>SPIRAL | 3.00           | 0.122            | 97                         | 108    |
|                  | 3.25           | 0.122            | 97                         | 108    |
|                  | 3.50           | 0.152            | 145                        | 162    |

## NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor  $J_A$  in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 ( $K_D$  factor).
8. Lumber must be dry ( < 19% moisture content ) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.

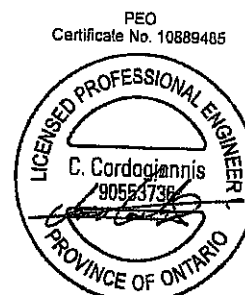


TOE-NAIL INSTALLATION

|                |                             |               |                       |               |
|----------------|-----------------------------|---------------|-----------------------|---------------|
| Nail type      | Common wire                 | Common spiral | Common wire           | Common spiral |
| Nail dia. (in) | 0.160                       | 0.152         | 0.144                 | 0.122         |
|                | ( 3.5" nail )               |               | ( 3" and 3.25" nail ) |               |
| LUMBER SIZE    | MAXIMUM NUMBER OF TOE-NAILS |               |                       |               |
| 2X4 SPF        | 2                           | 2             | 3                     | 3             |
| 2X4 D. Fir     | 2                           | 2             | 2                     | 2             |
| 2X6 SPF        | 4                           | 4             | 4                     | 5             |
| 2X6 D. Fir     | 3                           | 3             | 3                     | 4             |

**MiTek**® MiTek Canada Inc  
100 Industrial Rd.  
Bradford, Ontario L3Z 3G7

December 2, 2019



# BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

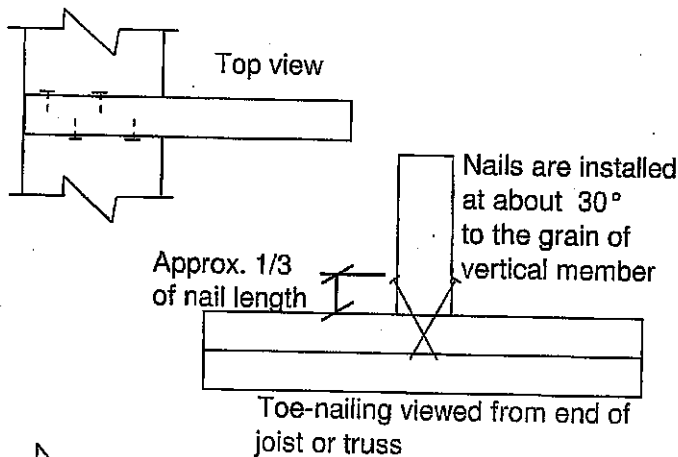
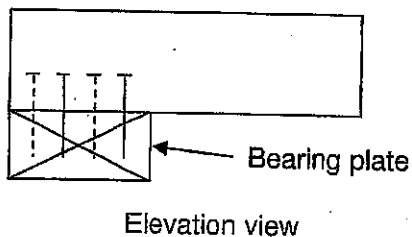
| NAIL TYPE        | LENGTH<br>(IN) | DIAMETER<br>(IN) | NAIL WITHDRAWAL CAPACITY (LB) |        |
|------------------|----------------|------------------|-------------------------------|--------|
|                  |                |                  | S-P-F                         | D. FIR |
| COMMON<br>WIRE   | 3.00           | 0.144            | 30                            | 42     |
|                  | 3.25           | 0.144            | 32                            | 45     |
|                  | 3.50           | 0.160            | 38                            | 52     |
| COMMON<br>SPIRAL | 3.00           | 0.122            | 26                            | 36     |
|                  | 3.25           | 0.122            | 28                            | 40     |
|                  | 3.50           | 0.152            | 36                            | 50     |

**Note:** If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

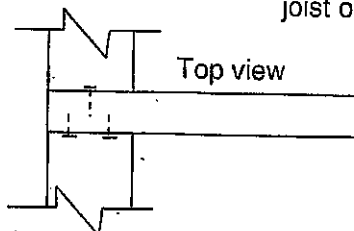
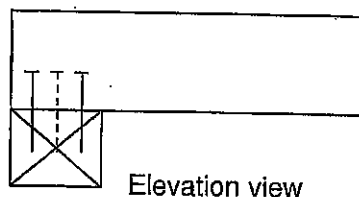
## NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor  $J_A$  in CSA O86-14, section 12.9.5.2.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities:  $G = 0.42$ (SPF),  $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

### Toe-nailing on 2x6 Bearing Plate

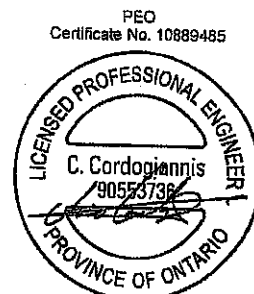


### Toe-nailing on 2x4 Bearing Plate



**MiTek**®

MiTek Canada Inc  
100 Industrial Rd.  
Bradford, Ontario L3Z 3G7



December 2, 2019

# TECHNICAL BULLETIN

## HUS/LJS – Double Shear Joist Hangers

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

All hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

**Material:** See table

**Finish:** G90 galvanized

### Design:

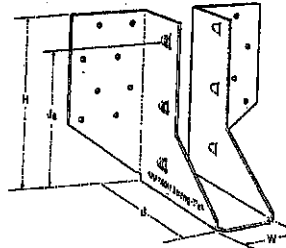
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

### Installation:

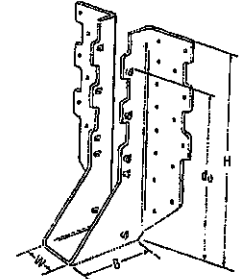
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

### Options:

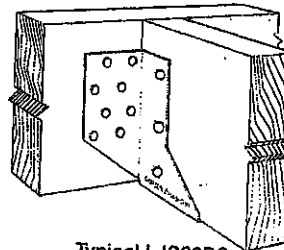
- See current catalogue for options



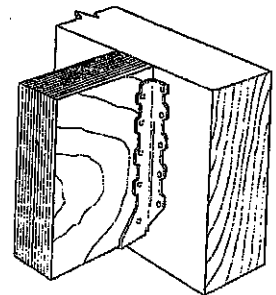
LJS26DS



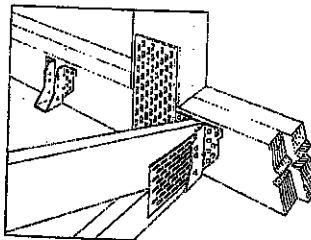
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



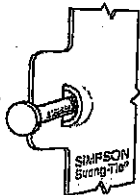
Typical HUS  
Installation



Typical HUS Installation  
(Truss Designer to provide fastener quantity for connecting multiple members together)

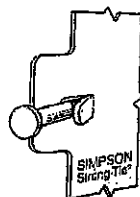
| Model No.  | Ga. | Dimensions (in.) |       |       |                             |          | Fasteners |  | Factored Resistance (lb.)        |                                  |                                  |                                  |
|------------|-----|------------------|-------|-------|-----------------------------|----------|-----------|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|            |     | W                | H     | B     | d <sub>h</sub> <sup>1</sup> | Face     | Joist     |  | D-Fir-L                          |                                  | S-P-F                            |                                  |
|            |     |                  |       |       |                             |          |           |  | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>u</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>u</sub> =1.00) |
| LJS26DS    | 18  | 1 1/8            | 5     | 3 1/2 | 4 3/4                       | (16) 16d | (6) 16d   |  | 2055                             | 4265                             | 1460                             | 4115                             |
| HUS26      | 16  | 1 1/8            | 5 1/2 | 3     | 3 1/8                       | (14) 16d | (6) 16d   |  | 2705                             | 4940                             | 2065                             | 3875                             |
| HUS28      | 16  | 1 1/8            | 7 1/2 | 3     | 6 3/8                       | (22) 16d | (8) 16d   |  | 3605                             | 5365                             | 2675                             | 4345                             |
| HUS210     | 16  | 1 1/8            | 9 1/2 | 3     | 7 1/2                       | (30) 16d | (10) 16d  |  | 4505                             | 5795                             | 4010                             | 4740                             |
| HUS1.81/10 | 16  | 1 1/8            | 9     | 3     | 8                           | (30) 16d | (10) 16d  |  | 4505                             | 6450                             | 4010                             | 5200                             |

1. d<sub>h</sub> is the distance from the seat of the hanger to the highest joist nail.

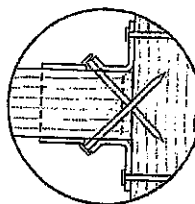


Double Double Shear Nailing prevents tabs breaking off (available on some models).

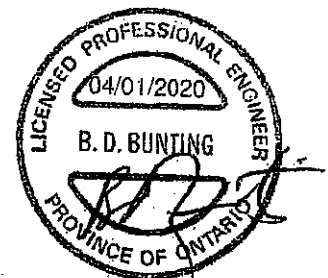
U.S. Patent  
5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



**LIMIT**  
**STATES**  
**DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPECHUS20 3/20 exp. 6/22

(800) 999-5099  
[strongtie.com](http://strongtie.com)

# LUS - Double Shear Joist Hangers

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

All LUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections.

**Material:** 18 gauge

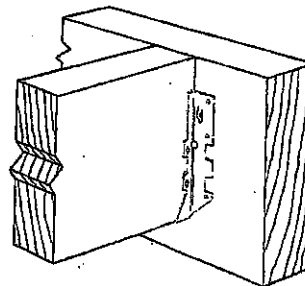
**Finish:** G90 galvanized

**Design:**

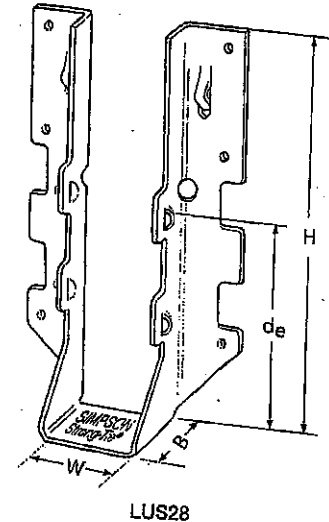
- Factored resistances are in accordance with CSA 086-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**Installation:**

- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3½" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

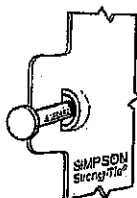


Typical LUS Installation

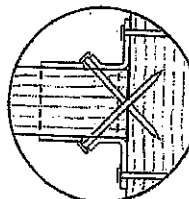


| Model No. | Ga. | Dimensions (in.) |         |       |                             | Fasteners |         | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|---------|-------|-----------------------------|-----------|---------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H       | B     | d <sub>s</sub> <sup>1</sup> | Face      | Joist   | D-Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |         |       |                             |           |         | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>u</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>u</sub> =1.00) |
| LUS24     | 18  | 1 11/16          | 3 1/8   | 1 1/4 | 1 13/16                     | (4) 10d   | (2) 10d | 710                              | 1630                             | 645                              | 1155                             |
| LUS24-2   | 18  | 3 1/8            | 3 1/8   | 2     | 1 13/16                     | (4) 16d   | (2) 16d | 835                              | 2020                             | 590                              | 1435                             |
| LUS26     | 18  | 1 11/16          | 4 3/4   | 1 3/4 | 3 3/8                       | (4) 10d   | (4) 10d | 1420                             | 2170                             | 1290                             | 1630                             |
| LUS26-2   | 18  | 3 3/8            | 4 7/8   | 2     | 4                           | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 1920                             |
| LUS26-3   | 18  | 4 3/8            | 4 3/8   | 2     | 3 3/4                       | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 2340                             |
| LUS28     | 18  | 1 11/16          | 6 5/8   | 1 3/4 | 3 3/4                       | (6) 10d   | (6) 10d | 1420                             | 2520                             | 1290                             | 1790                             |
| LUS28-2   | 18  | 3 1/8            | 7       | 2     | 4                           | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2575                             |
| LUS28-3   | 18  | 4 3/8            | 6 1/4   | 2     | 3 3/4                       | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18  | 1 1/4            | 7 11/16 | 1 3/4 | 3 3/8                       | (8) 10d   | (4) 10d | 1420                             | 2785                             | 1290                             | 2210                             |
| LUS210-2  | 18  | 3 1/8            | 9       | 2     | 6                           | (8) 16d   | (6) 16d | 2580                             | 4500                             | 2320                             | 3195                             |
| LUS210-3  | 18  | 4 3/8            | 8 3/8   | 2     | 5 1/4                       | (8) 16d   | (6) 16d | 2580                             | 3345                             | 2320                             | 2375                             |

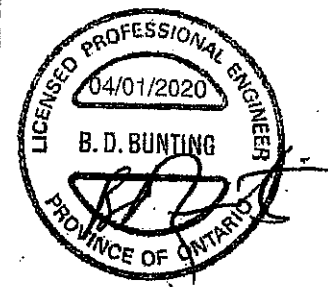
1. d<sub>s</sub> is the distance from the seat of the hanger to the highest joist nail.



Double Double Shear Nailing prevents tabs breaking off (available on some models).  
U.S. Patent 5,603,580



Double Shear Nailing Top View.



**LIMIT STATES DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPECUS20 3/20 exp. 6/22

(800) 999-5099  
[strongtie.com](http://strongtie.com)

# TECHNICAL BULLETIN

## HGUS – Double Shear Joist Hangers

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

All HGUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

**Material:** 12 gauge

**Finish:** G90 galvanized

### Design:

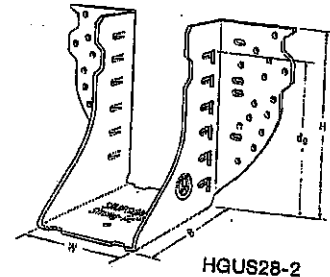
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

### Installation:

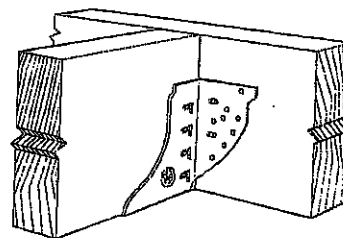
- Use all specified fasteners.
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

### Options:

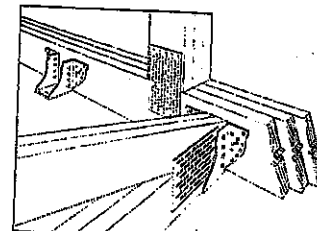
- See current catalogue for options



HGUS28-2



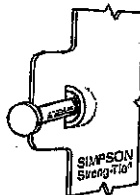
Typical HGUS Installation



Typical HGUS Installation  
(Truss Designer to provide fastener quantity for connecting multiple members together)

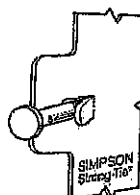
| Model No. | Ga. | Dimensions (in.) |        |   |                             | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|--------|---|-----------------------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H      | B | d <sub>o</sub> <sup>1</sup> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |        |   |                             |           |          | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) | Uplift<br>(K <sub>o</sub> =1.15) | Normal<br>(K <sub>o</sub> =1.00) |
| HGUS26    | 12  | 1 5/8            | 5 3/8  | 5 | 4 5/32                      | (20) 16d  | (8) 16d  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12  | 3 1/16           | 5 7/16 | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12  | 4 1/16           | 5 1/2  | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12  | 6 1/16           | 5 7/16 | 4 | 4 1/8                       | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12  | 1 7/8            | 7 1/8  | 5 | 6 1/8                       | (36) 16d  | (12) 16d | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12  | 3 1/16           | 7 1/16 | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12  | 4 1/16           | 7 1/8  | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12  | 6 1/16           | 7 1/16 | 4 | 6 1/8                       | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210   | 12  | 1 3/8            | 9 1/8  | 5 | 7 7/8                       | (46) 16d  | (16) 16d | 3535                             | 11070                            | 2510                             | 8090                             |
| HGUS210-2 | 12  | 3 1/16           | 9 3/16 | 4 | 8 1/8                       | (46) 16d  | (16) 16d | 6840                             | 14015                            | 4855                             | 10270                            |
| HGUS210-3 | 12  | 4 1/16           | 9 1/4  | 4 | 8 3/8                       | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12  | 6 1/16           | 9 1/4  | 4 | 8 3/8                       | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12  | 6 1/16           | 10 1/4 | 4 | 10 1/8                      | (56) 16d  | (20) 16d | 7640                             | 14995                            | 5425                             | 10845                            |
| HGUS214-4 | 12  | 6 1/16           | 12 1/4 | 4 | 11 1/8                      | (66) 16d  | (22) 16d | 10130                            | 16400                            | 7195                             | 11645                            |

1. d<sub>o</sub> is the distance from the seat of the hanger to the highest joist nail.

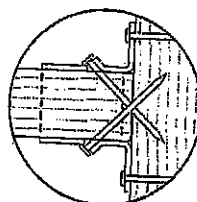


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

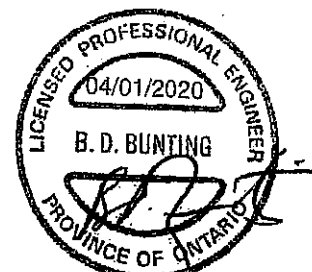
U.S. Patent 5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



**LIMIT STATES DESIGN**

This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see [strongtie.com](http://strongtie.com).

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T-SPECHGUS20 3/20 exp. 6/22

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# H – Seismic and Hurricane Ties

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

The H connector series provides wind and seismic ties for trusses and rafters.

**Material:** 18 gauge **Finish:** G90 galvanized

**Design:** • Factored resistances are in accordance with CSA O86-14

• Factored resistances have been increased 15%. No further increase is permitted.

**Installation:** • Use all specified fasteners

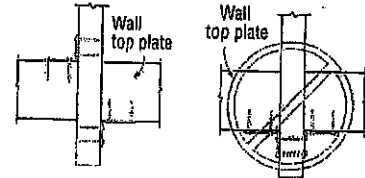
• Nails:  $8d = 0.131"$  dia. x  $2\frac{1}{2}"$  long common wire,  $8d \times 1\frac{1}{2}" = 0.131" \times 1\frac{1}{2}"$  long,  $10d \times 1\frac{1}{2}" = 0.146" \times 1\frac{1}{2}"$  long

• H1 can be installed with flanges facing outwards

• Hurricane ties do not replace solid blocking

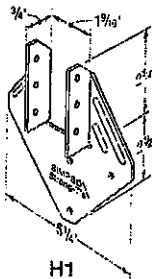
Factored resistances for more than one direction for a single connection cannot be added together. A factored load which can be divided into components in the directions given must be evaluated as follows: Factored Shear/Resisting Shear + Factored Tension/Resisting Tension  $\leq 1.0$ .

## Hurricane Tie Installations to Achieve Twice the Load (Top View)

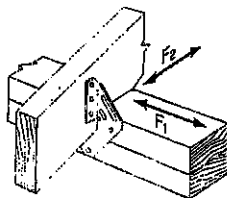


Install diagonally across from each other for minimum 2x truss.

Nailing into both sides of a single ply 2x truss may cause the wood to split.



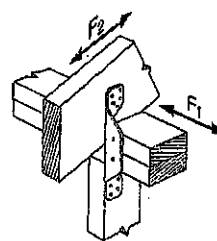
H1



H1 Installation



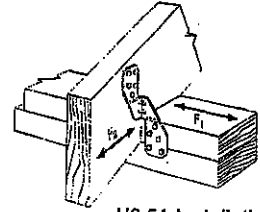
H2A



H2A Installation



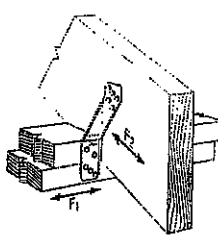
H2.5A



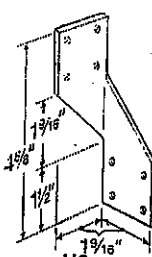
H2.5A Installation



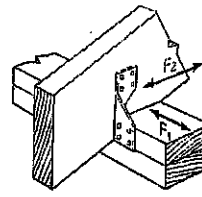
H2.5T



H2.5T Installation  
(Nails into both top plates)



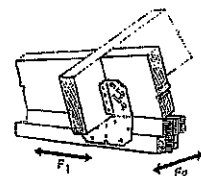
H3



H3 Installation



H10A



H10A Installation

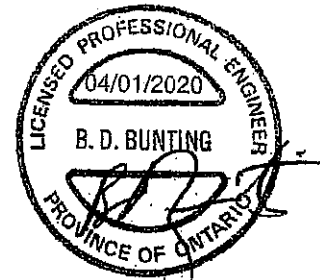
| Model No. | Ga. | Fasteners        |                  |                 | Factored Resistance (lb.) |                |                |        |                |                |
|-----------|-----|------------------|------------------|-----------------|---------------------------|----------------|----------------|--------|----------------|----------------|
|           |     |                  |                  |                 | D.Fir-L                   |                |                | S-P-F  |                |                |
|           |     | To Rafter        | To Plates        | To Studs        | Uplift                    | Normal         |                | Uplift | Normal         |                |
|           |     |                  |                  |                 |                           | F <sub>1</sub> | F <sub>2</sub> |        | F <sub>1</sub> | F <sub>2</sub> |
| H1        | 18  | (6) 8d x 1 1/2"  | (4) 8d           | —               | 740                       | 685            | 300            | 680    | 485            | 215            |
| H2A       | 18  | (5) 8d x 1 1/2"  | (2) 8d x 1 1/2"  | (5) 8d x 1 1/2" | 830                       | 220            | 75             | 590    | 155            | 55             |
| H2.5A     | 18  | (5) 8d           | (5) 8d           | —               | 805                       | 160            | 160            | 755    | 160            | 160            |
| H2.5T     | 18  | (5) 8d           | (5) 8d           | —               | 835                       | 175            | 240            | 740    | 160            | 210            |
| H3        | 18  | (4) 8d           | (4) 8d           | —               | 740                       | 180            | 265            | 615    | 125            | 190            |
| H10A      | 18  | (9) 10d x 1 1/2" | (9) 10d x 1 1/2" | —               | 1735                      | 795            | 410            | 1505   | 565            | 290            |

1. Factored resistances have been increased 15% for earthquake or wind loading with no further increase allowed.

2. Factored resistances are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on each side of the joist and on the same side of the plate.

3. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.

4. Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a Continuous Load Path, connections must be on same side of the wall.



**LIMIT**  
**STATES**  
**DESIGN**

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T-SPECH20 3/20 exp. 6/22

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# TC – Truss Connectors



The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1¼". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

**Material:** 16 gauge

**Finish:** G90 galvanized

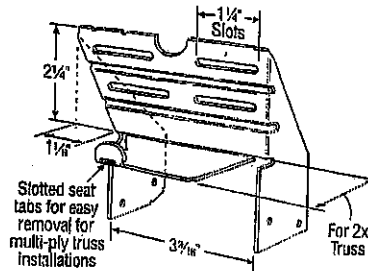
**Design:** Factored resistances are in accordance with CSA 086-14

## Installation:

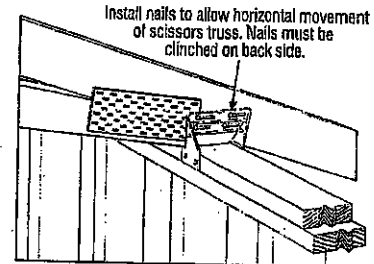
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

## Optional TC Installation:

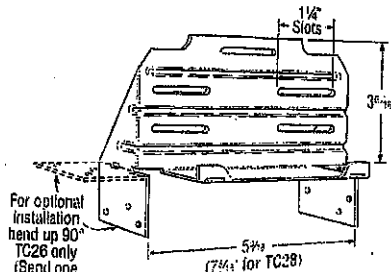
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



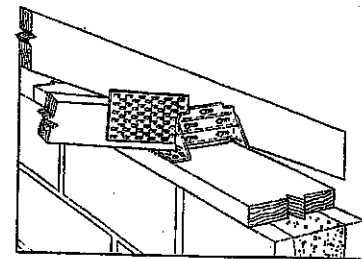
**TC24**  
U.S. Patent 4,932,173



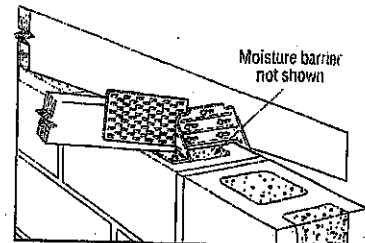
**Typical TC24 Installation**



**TC26**  
(TC28 Similar)



**Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer**  
(8", 10", 12" Wall Installation Similar)



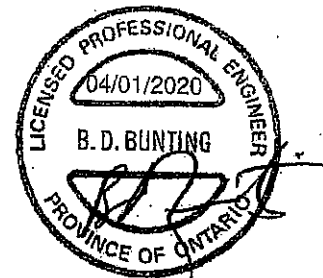
**Optional TC26 Installation for Grouted Concrete Block using Titen Screws**

| Model No. | Fasteners |             | Factored Resistance           |                               |
|-----------|-----------|-------------|-------------------------------|-------------------------------|
|           | Truss     | Wall Plates | D.Fir-L                       | S-P-F                         |
|           |           |             | Uplift (K <sub>u</sub> =1.15) | Uplift (K <sub>u</sub> =1.15) |
| TC24      | (4) 10d   | (4) 10d     | 605                           | 430                           |
| TC26      | (5) 10d   | (6) 10d     | 1015                          | 720                           |
| TC28      | (5) 10d   | (6) 10d     | 1015                          | 720                           |

## Optional TC Installation Table

| Model No. | Fasteners |               | Factored Resistance           |                               |
|-----------|-----------|---------------|-------------------------------|-------------------------------|
|           | Truss     | Wall Plates   | D.Fir-L                       | S-P-F                         |
|           |           |               | Uplift (K <sub>u</sub> =1.15) | Uplift (K <sub>u</sub> =1.15) |
| TC26      | (5) 10d   | (6) 10d x 1½" | 810                           | 660                           |
|           | (5) 10d   | (6) 10d       | 930                           | 660                           |

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (6) – ¼" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



**LIMIT  
STATES  
DESIGN**

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T-SPECTC20 3/20 exp. 6/22

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# HHUS – Double Shear Joist Hangers



All HHUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

**Material:** 14 gauge

**Finish:** G90 galvanized

**Design:**

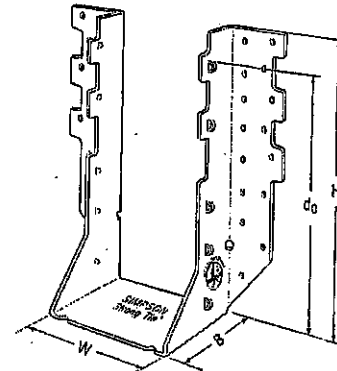
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

**Installation:**

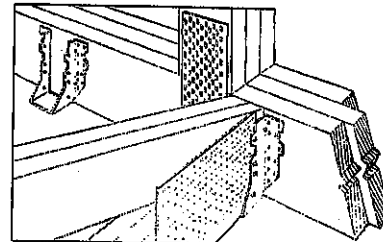
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

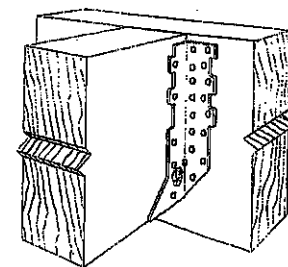
- See current catalogue for options



HHUS410



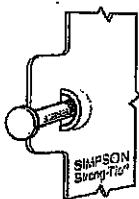
Typical HHUS Installation  
(Truss Designer to provide fastener quantity for connecting multiple members together)



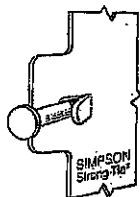
Typical HHUS Installation

| Model No.   | Ga. | Dimensions (in.) |       |       |                             | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-------------|-----|------------------|-------|-------|-----------------------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|             |     | W                | H     | B     | d <sub>0</sub> <sup>1</sup> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|             |     |                  |       |       |                             |           |          | Uplift<br>(K <sub>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) | Uplift<br>(K <sub>0</sub> =1.15) | Normal<br>(K <sub>0</sub> =1.00) |
| HHUS26-2    | 14  | 3 1/8            | 5 1/8 | 3     | 3 1/8                       | (14) 16d  | (6) 16d  | 2850                             | 7335                             | 2065                             | 5205                             |
| HHUS28-2    | 14  | 3 1/8            | 7 1/8 | 3     | 6 1/8                       | (22) 16d  | (8) 16d  | 3765                             | 8940                             | 2675                             | 6345                             |
| HHUS210-2   | 14  | 3 1/8            | 9 1/2 | 3     | 8                           | (30) 16d  | (10) 16d | 4670                             | 9660                             | 4235                             | 7000                             |
| HHUS210-3   | 14  | 4 1/8            | 9     | 3     | 7 1/8                       | (30) 16d  | (10) 16d | 4670                             | 9670                             | 4235                             | 6865                             |
| HHUS210-4   | 14  | 6 1/8            | 8 3/8 | 3     | 7 7/8                       | (30) 16d  | (10) 16d | 4670                             | 10155                            | 4235                             | 7210                             |
| HHUS46      | 14  | 3 3/8            | 5 1/2 | 3     | 3 1/8                       | (14) 16d  | (6) 16d  | 2540                             | 7335                             | 2065                             | 5205                             |
| HHUS48      | 14  | 3 3/8            | 7 1/8 | 3     | 6 1/8                       | (22) 16d  | (8) 16d  | 3765                             | 8940                             | 2675                             | 6345                             |
| HHUS410     | 14  | 3 3/8            | 9     | 3     | 8                           | (30) 16d  | (10) 16d | 4670                             | 9855                             | 4235                             | 7000                             |
| HHUS5.50/10 | 14  | 5 1/2            | 9     | 3     | 8                           | (30) 16d  | (10) 16d | 4670                             | 10155                            | 4235                             | 7210                             |
| HHUS7.25/10 | 14  | 7 1/4            | 9     | 3 1/8 | 7 7/8                       | (30) 16d  | (10) 16d | 4670                             | 10155                            | 3370                             | 7210                             |

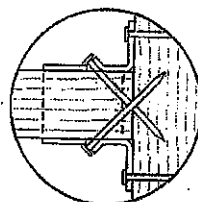
1. d<sub>0</sub> is the distance from the seat of the hanger to the highest joist nail.



Dome Double Shear Nailing prevents tabs breaking off (available on some models).  
U.S. Patent 5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



LIMIT STATES DESIGN

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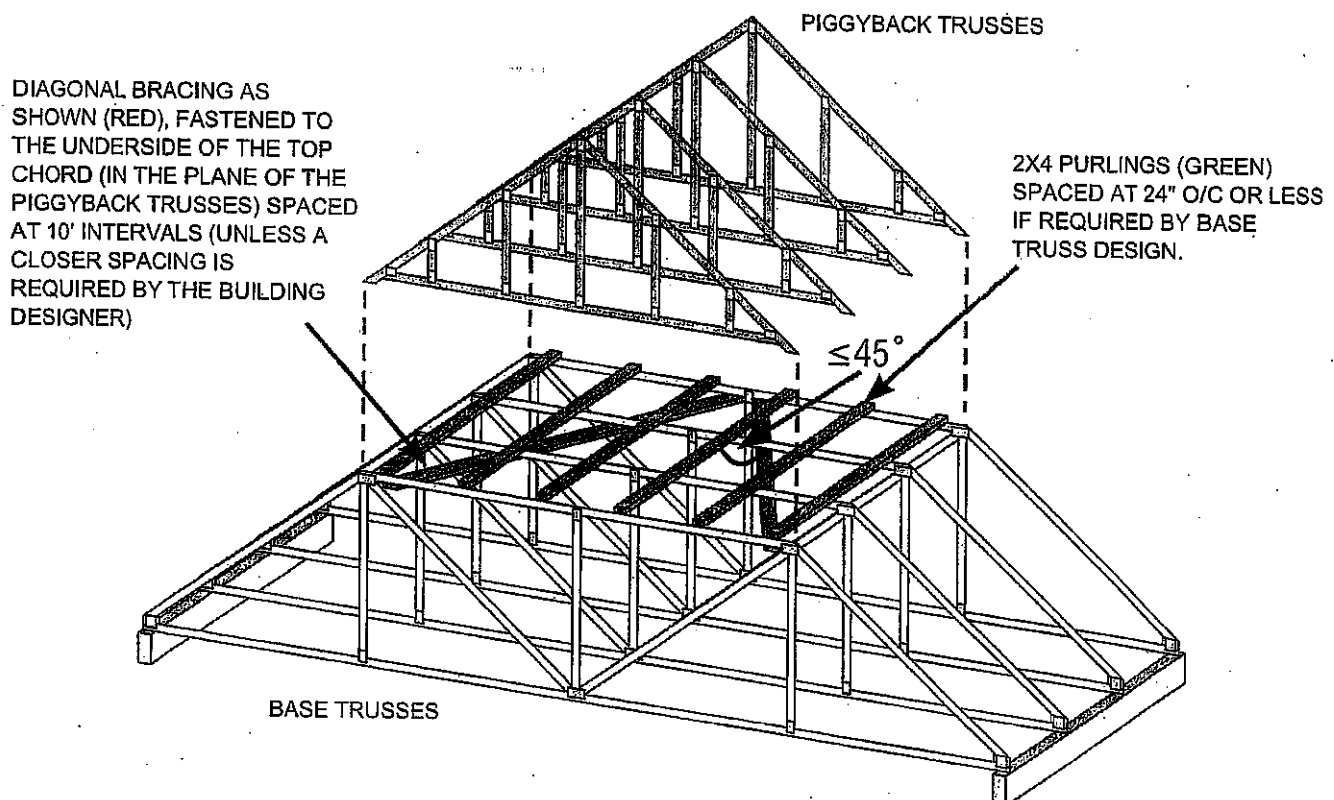
(800) 999-5099  
[strongtie.com](http://strongtie.com)

### Overview:

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

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

### Detail:



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

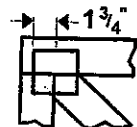
SKETCH FROM BCSI-CANADA 2013

### Disclaimer:

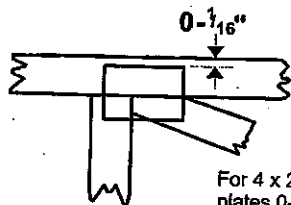
OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in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

## Symbols

### PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE

4 x 4

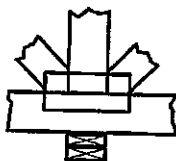
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



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

### BEARING

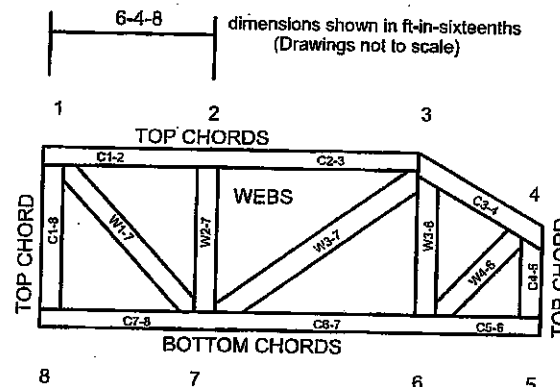


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System



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

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

### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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**MiTek**

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



## General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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