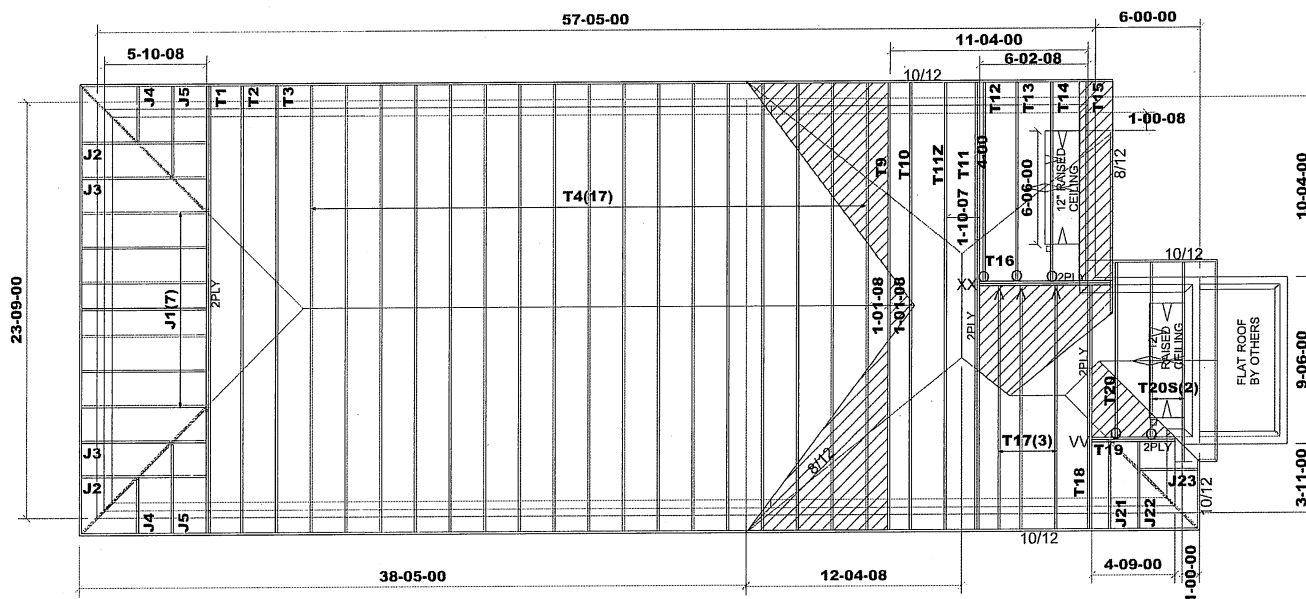




FINISH O.H: 12"  
Heel: R.T.M.C  
CLADDING ALLOWANCE: 5"  
2X6 EXTERIOR WALLS  
ASPHALT SHINGLES  
2X6 FASCIA BOARD

ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART9 OF THE OBC LATEST EDITION  
ROOF: RAFTERS THAT MEET OR CROSS OVER TRUSSES ARE TO BE 2"x4"SPF @ 24"o.c. WITH A 2"x4" SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT. POSTS LONGER THAN 6' TO BE Laterally Braced so that the distance between end points and between rows of bracing does not exceed 6'.

TRUSSES DESIGNED CONFORM TO THE RELEVANT SECTION OF THE LATEST EDITION OF THE ONTARIO BUILDING CODE (RESIDENTIAL PART 9)

DESIGN CONFORMS WITH OBC 2012(2019 AMENDMENT)  
OCCUPANCY: RESIDENTIAL | PART: 9  
Ss = 33.4 psf | Sr = 8.4 psf

DESIGN LOADS:  
TCSL = 28.7 psf  
TCDL = 6.0 psf  
BCLL = 0.0 psf  
BCDL = 7.4 psf

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

ALL ROOF PITCHES ARE 6/12 UNLESS OTHERWISE NOTED

 DENOTES:  
CONVENTIONAL  
FRAMING

DWG# TR22080160 TO TR22080168  
DWG# TR22080177 TO TR22080193



STRUCTURAL COMPONENTS ONLY  
DWG# TR22080205

## TRUSS PLACEMENT PLAN.

This is a truss placement plan only, NOT a final roof framing plan. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss drawings for each component identified on this placement plan.

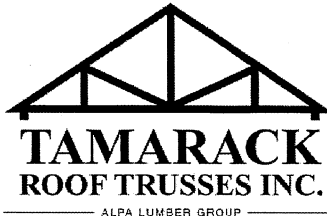
Please verify that all dimensions match the dimensions found on the job. The Building designer is responsible for the temporary/ permanent bracing of the roof and floor system and its integration into the bracing of the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer unless otherwise noted in this plan. Building designer to review and approve this plan to ascertain conformity to his overall structural plan.



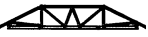
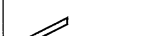
M15038

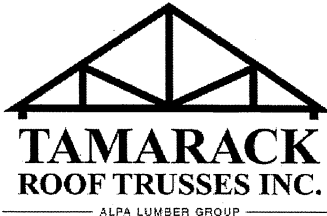
Job Track: 52956  
Layout ID: 427556  
Plan Log: 206398  
Builder / Location: GREENPARK HOMES / CAMBRIDGE  
Project: BARLASSINA  
Date: 8/02/22  
Designer: AT

Model / Elevation: GARDEN 4 / 2  
Milek var 8.5.3.233  
THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC. SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

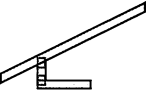
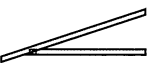
| <br><b>TAMARACK</b><br><b>ROOF TRUSSES INC.</b><br><small>ALPHA LUMBER GROUP</small> | DELIVERY SHIPLIST |                 |              |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|--------------|--------|
|                                                                                                                                                                      | Lumber Yard:      | TAMARACK LUMBER | Job Track:   | 52956  |
|                                                                                                                                                                      | Builder:          | GREENPARK HOMES | PlanLog:     | 206398 |
|                                                                                                                                                                      | Project:          | BARLASSINA      | Layout ID:   | 427546 |
|                                                                                                                                                                      | Location:         | CAMBRIDGE       | Ref #        |        |
| Model:                                                                                                                                                               | GARDEN 4          | Page:           | 1 of 2       |        |
| Lot #:                                                                                                                                                               |                   | Date:           | 08-03-2022   |        |
| Elevation:                                                                                                                                                           | 1                 | Designer:       |              |        |
|                                                                                                                                                                      |                   | Sales Rep:      | Rick DiCiano |        |

## Roof Trusses

| PROFILE                                                                            | QTY<br>PLY | MARK<br>TYPE           | PITCH  | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.      | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|------------------------------------------------------------------------------------|------------|------------------------|--------|----------|---------|----------------|---------------------------|------------------------------|-------------------|---------------------|--------------------|
|    | 1<br>2-ply | T1<br>Hip Girder       | 6 /12  | 22-11-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 206.7<br>130.00   |                     |                    |
|    | 1          | T2<br>Hip              | 6 /12  | 22-11-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 94.14<br>59.33    |                     |                    |
|    | 1          | T3<br>Hip              | 6 /12  | 22-11-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 96.52<br>60.17    |                     |                    |
|    | 14         | T4<br>Common           | 6 /12  | 22-11-00 | 6-10-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1280.52<br>807.33 |                     |                    |
|   | 1<br>3-ply | T5<br>Common<br>Girder | 6 /12  | 22-11-00 | 6-10-12 | 2 x 4<br>2 x 6 | 1-05-00<br>1-05-00        | 1-02-00<br>1-02-00           | 341.92<br>217.50  |                     |                    |
|  | 11         | T6<br>Common           | 10 /12 | 17-02-00 | 8-09-09 | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-11<br>1-07-12           | 910.59<br>595.83  |                     |                    |
|  | 1<br>2-ply | T7<br>Common<br>Girder | 12 /12 | 12-07-00 | 8-02-00 | 2 x 4<br>2 x 6 | 1-05-00<br>1-03-08        | 1-10-08<br>1-10-08           | 159.29<br>106.00  |                     |                    |
|  | 1          | T8<br>Common           | 12 /12 | 12-07-00 | 8-02-00 | 2 x 4          | 1-03-08<br>1-03-08        | 1-10-08<br>1-10-08           | 66.06<br>43.33    |                     |                    |
|  | 2          | T8S<br>Roof Special    | 12 /12 | 12-07-00 | 8-02-00 | 2 x 4          | 1-03-08<br>1-03-08        | 1-10-08<br>1-10-08           | 136.81<br>89.00   |                     |                    |
|  | 2          | G6<br>GABLE            | 10 /12 | 17-02-00 | 8-09-08 | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-11           | 173.41<br>113.67  |                     |                    |
|  | 7          | J1<br>Jack-Open        | 6 /12  | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 117.56<br>74.67   |                     |                    |
|  | 2          | J2<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           | 23.16<br>14.67    |                     |                    |
|  | 2          | J3<br>Jack-Open        | 6 /12  | 3-09-07  | 3-00-12 | 2 x 4          | 1-03-08<br>2-01-01        | 1-02-00<br>3-00-12           | 28.26<br>17.33    |                     |                    |
|  | 2          | J4<br>Jack-Open        | 6 /12  | 1-09-07  | 2-00-12 | 2 x 4          | 1-03-08<br>1-01           | 1-02-00<br>2-00-12           | 14.04<br>9.33     |                     |                    |

| DELIVERY SHIPLIST                                                                                                                                             |              |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|
| <br><b>TAMARACK</b><br>ROOF TRUSSES INC.<br><small>ALPHA LUMBER GROUP</small> | Lumber Yard: | TAMARACK LUMBER |
|                                                                                                                                                               | Builder:     | GREENPARK HOMES |
|                                                                                                                                                               | Project:     | BARLASSINA      |
|                                                                                                                                                               | Location:    | CAMBRIDGE       |
|                                                                                                                                                               | Model:       | GARDEN 4        |
|                                                                                                                                                               | Lot #:       |                 |
|                                                                                                                                                               | Elevation:   | 1               |
|                                                                                                                                                               | Job Track:   | 52956           |
|                                                                                                                                                               | PlanLog:     | 206398          |
|                                                                                                                                                               | Layout ID:   | 427546          |
|                                                                                                                                                               | Ref #        |                 |
|                                                                                                                                                               | Page:        | 2 of 2          |
|                                                                                                                                                               | Date:        | 08-03-2022      |
|                                                                                                                                                               | Designer:    |                 |
|                                                                                                                                                               | Sales Rep:   | Rick DiCiano    |

## 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 |
|----------------------------------------------------------------------------------|------------|-----------------|-------|---------|---------|--------|---------------------------|------------------------------|----------------|---------------------|--------------------|
|  | 2          | J5<br>Jack-Open | 6 /12 | 1-10-08 | 3-00-12 | 2 x 4  | 1-03-08<br>1-10-15        | 1-02-00<br>2-01-04           | 19.14<br>12.00 |                     |                    |
|  | 5          | J6<br>Monopitch | 4 /12 | 6-05-08 | 2-10-11 | 2 x 4  | 1-03-08                   | 3-15<br>2-05-12              | 83.95<br>53.33 |                     |                    |
|  | 2          | J7<br>Monopitch | 4 /12 | 5-05-08 | 2-06-11 | 2 x 4  | 1-03-08                   | 3-15<br>2-01-12              | 28.9<br>18.67  |                     |                    |

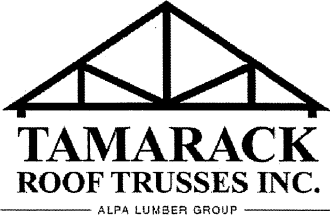
TOTAL # TRUSS= 61      TOTAL BFT OF ALL TRUSSES= 2422.16      BFT.      TOTAL WEIGHT OF ALL TRSSES 3780.99      LBS

## HARDWARE

| QTY | TYPE     | MODEL   | LENGTH |
|-----|----------|---------|--------|
| 17  | Hardware | LJS26DS |        |

TOTAL NUMBER OF ITEMS= 17

# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: BARLASSINA  
 Location: CAMBRIDGE  
 Model: GARDEN 4  
 Lot #:  
 Elevation: 2

Job Track: 52956  
 PlanLog: 206398  
 Layout ID: 427556  
 Ref #  
 Page: 1 of 3  
 Date: 08-03-2022  
 Designer:  
 Sales Rep: Rick DiCiano

## Roof Trusses

| PROFILE | QTY<br>PLY | MARK<br>TYPE               | PITCH  | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.      | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|----------------------------|--------|----------|---------|----------------|---------------------------|------------------------------|-------------------|---------------------|--------------------|
|         | 1<br>2-ply | T1<br>Hip Girder           | 6 /12  | 22-11-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 206.7<br>130.00   |                     |                    |
|         | 1          | T2<br>Hip                  | 6 /12  | 22-11-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 94.14<br>59.33    |                     |                    |
|         | 1          | T3<br>Hip                  | 6 /12  | 22-11-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 96.52<br>60.17    |                     |                    |
|         | 17         | T4<br>Common               | 6 /12  | 22-11-00 | 6-10-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1554.92<br>980.33 |                     |                    |
|         | 1          | T9<br>Hip                  | 10 /12 | 22-11-00 | 5-10-09 | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-10           | 97.01<br>61.67    |                     |                    |
|         | 1          | T10<br>Hip                 | 10 /12 | 22-11-00 | 6-08-09 | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-10           | 106.38<br>67.17   |                     |                    |
|         | 1<br>2-ply | T11<br>Hip Girder          | 10 /12 | 22-11-00 | 8-00-09 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-10           | 277.09<br>174.67  |                     |                    |
|         | 1          | T11Z<br>Hip                | 10 /12 | 22-11-00 | 8-00-09 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-10           | 138.54<br>87.33   |                     |                    |
|         | 1          | T12<br>Half Hip            | 10 /12 | 10-01-00 | 7-09-14 | 2 x 4          | 1-03-08                   | 1-07-10<br>7-09-14           | 58.25<br>38.00    |                     |                    |
|         | 1          | T13<br>Half Hip            | 10 /12 | 10-01-00 | 6-05-09 | 2 x 4          | 1-03-08                   | 1-07-10<br>6-05-09           | 52.87<br>34.17    |                     |                    |
|         | 1          | T14<br>Half Hip            | 10 /12 | 10-01-00 | 5-01-09 | 2 x 4          | 1-03-08                   | 1-07-10<br>5-01-09           | 57.89<br>39.00    |                     |                    |
|         | 1          | T15<br>Half Hip            | 10 /12 | 10-01-00 | 3-10-14 | 2 x 4          | 1-03-08                   | 1-07-10<br>3-10-14           | 52.14<br>36.17    |                     |                    |
|         | 1<br>2-ply | T16<br>Jack-Open<br>Girder | 8 /12  | 6-02-08  | 8-00-09 | 2 x 4<br>2 x 6 | 1-03-08                   | 3-10-14<br>8-00-09           | 95.93<br>61.00    |                     |                    |
|         | 3          | T17<br>Common              | 10 /12 | 12-07-00 | 6-10-09 | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-10           | 181.21<br>118.50  |                     |                    |

# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREENPARK HOMES  
 Project: BARLASSINA  
 Location: CAMBRIDGE  
 Model: GARDEN 4  
 Lot #:  
 Elevation: 2

Job Track: 52956  
 PlanLog: 206398  
 Layout ID: 427556  
 Ref #  
 Page: 2 of 3  
 Date: 08-03-2022  
 Designer:  
 Sales Rep: Rick DiCiano

## 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 | T18<br>Hip Girder         | 10 / 12 | 12-07-00 | 5-07-02 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-10           | 136.85<br>91.33 |                     |                    |
|         | 1<br>2-ply | T19<br>Half Hip<br>Girder | 10 / 12 | 4-09-00  | 4-08-05 | 2 x 4<br>2 x 6 |                           | 1-07-10<br>4-08-05           | 62.62<br>42.00  |                     |                    |
|         | 1          | T20<br>Common             | 10 / 12 | 8-08-00  | 5-02-15 | 2 x 4          | 1-03-08<br>1-03-08        | 1-07-10<br>1-07-10           | 40.32<br>26.83  |                     |                    |
|         | 2          | T20S<br>Roof Special      | 10 / 12 | 8-08-00  | 5-02-15 | 2 x 4          | 1-05-00<br>1-03-08        | 1-07-10<br>1-07-10           | 91.38<br>63.33  |                     |                    |
|         | 7          | J1<br>Jack-Open           | 6 / 12  | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 117.56<br>74.67 |                     |                    |
|         | 2          | J2<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           | 23.16<br>14.67  |                     |                    |
|         | 2          | J3<br>Jack-Open           | 6 / 12  | 3-09-07  | 3-00-12 | 2 x 4          | 1-03-08<br>2-01-01        | 1-02-00<br>3-00-12           | 28.26<br>17.33  |                     |                    |
|         | 2          | J4<br>Jack-Open           | 6 / 12  | 1-09-07  | 2-00-12 | 2 x 4          | 1-03-08<br>1-01           | 1-02-00<br>2-00-12           | 14.04<br>9.33   |                     |                    |
|         | 2          | J5<br>Jack-Open           | 6 / 12  | 1-10-08  | 3-00-12 | 2 x 4          | 1-03-08<br>1-10-15        | 1-02-00<br>2-01-04           | 19.14<br>12.00  |                     |                    |
|         | 1          | J21<br>Jack-Open          | 10 / 12 | 3-08-00  | 4-08-05 | 2 x 4          | 1-03-08                   | 1-07-10<br>4-08-05           | 13.19<br>8.67   |                     |                    |
|         | 1          | J22<br>Jack-Open          | 10 / 12 | 1-10-15  | 3-02-12 | 2 x 4          | 1-03-08<br>1-09-01        | 1-07-10<br>3-02-12           | 10.59<br>7.33   |                     |                    |
|         | 1          | J23<br>Jack-Open          | 10 / 12 | 1-10-15  | 3-02-12 | 2 x 4          | 1-03-08<br>1-01           | 1-07-10<br>3-02-12           | 8.69<br>6.00    |                     |                    |

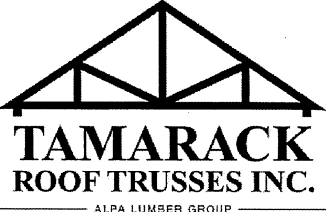
TOTAL # TRUSS= 60

TOTAL BFT OF ALL TRUSSES= 2321

BFT. TOTAL WEIGHT OF ALL TRSSES 3635.42 LBS

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 1   | Hardware | HGUS26-2 |        |
| 3   | Hardware | LJS26DS  |        |

|  | DELIVERY SHIPLIST |                 |
|----------------------------------------------------------------------------------|-------------------|-----------------|
|                                                                                  | Lumber Yard:      | TAMARACK LUMBER |
|                                                                                  | Builder:          | GREENPARK HOMES |
|                                                                                  | Project:          | BARLASSINA      |
|                                                                                  | Location:         | CAMBRIDGE       |
|                                                                                  | Model:            | GARDEN 4        |
|                                                                                  | Lot #:            |                 |
|                                                                                  | Elevation:        | 2               |
| Job Track:                                                                       | 52956             |                 |
| PlanLog:                                                                         | 206398            |                 |
| Layout ID:                                                                       | 427556            |                 |
| Ref #                                                                            |                   |                 |
| Page:                                                                            | 3 of 3            |                 |
| Date:                                                                            | 08-03-2022        |                 |
| Designer:                                                                        |                   |                 |
| Sales Rep:                                                                       | Rick DiCiano      |                 |

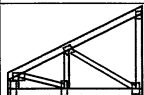
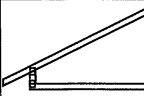
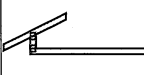
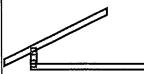
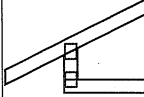
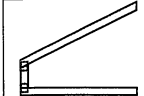
## HARDWARE

| QTY | TYPE     | MODEL | LENGTH |
|-----|----------|-------|--------|
| 5   | Hardware | LUS24 |        |
| 1   | Hardware | LUS26 |        |

TOTAL NUMBER OF ITEMS= 10

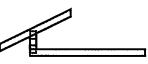
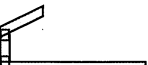
| <br><b>TAMARACK</b><br><b>ROOF TRUSSES INC.</b><br><small>ALPA LUMBER GROUP</small> | DELIVERY SHIPLIST |                 |            |              |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|------------|--------------|--|--|--|--|--|--|--|
|                                                                                                                                                                     | Lumber Yard:      | TAMARACK LUMBER | Job Track: | 52956        |  |  |  |  |  |  |  |
|                                                                                                                                                                     | Builder:          | GREENPARK HOMES | PlanLog:   | 206398       |  |  |  |  |  |  |  |
|                                                                                                                                                                     | Project:          | BARLASSINA      | Layout ID: | 427574       |  |  |  |  |  |  |  |
|                                                                                                                                                                     | Location:         | CAMBRIDGE       | Ref #      |              |  |  |  |  |  |  |  |
|                                                                                                                                                                     | Model:            | GARDEN 4        | Page:      | 1 of 2       |  |  |  |  |  |  |  |
|                                                                                                                                                                     | Lot #:            |                 | Date:      | 08-03-2022   |  |  |  |  |  |  |  |
|                                                                                                                                                                     | Elevation:        | 3               | Designer:  |              |  |  |  |  |  |  |  |
|                                                                                                                                                                     |                   |                 | Sales Rep: | Rick DiCiano |  |  |  |  |  |  |  |

## Roof Trusses

| PROFILE                                                                            | QTY<br>PLY | MARK<br>TYPE               | PITCH | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.       | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|------------------------------------------------------------------------------------|------------|----------------------------|-------|----------|---------|----------------|---------------------------|------------------------------|--------------------|---------------------|--------------------|
|    | 1<br>2-ply | T1<br>Hip Girder           | 6 /12 | 22-11-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 206.7<br>130.00    |                     |                    |
|    | 1<br>2-ply | T1Z<br>Hip Girder          | 6 /12 | 22-11-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 206.7<br>130.00    |                     |                    |
|    | 2          | T2<br>Hip                  | 6 /12 | 22-11-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 188.29<br>118.67   |                     |                    |
|    | 2          | T3<br>Hip                  | 6 /12 | 22-11-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 193.05<br>120.33   |                     |                    |
|   | 18         | T4<br>Common               | 6 /12 | 22-11-00 | 6-10-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1646.39<br>1038.00 |                     |                    |
|  | 2          | T21<br>Common              | 6 /12 | 12-07-00 | 4-03-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 101.11<br>64.00    |                     |                    |
|  | 1          | T22<br>Hip Girder          | 6 /12 | 12-07-00 | 3-08-00 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 51.1<br>33.67      |                     |                    |
|  | 1<br>2-ply | T23<br>Jack-Open<br>Girder | 6 /12 | 5-10-08  | 4-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>4-01-04           | 57.83<br>37.67     |                     |                    |
|  | 10         | J1<br>Jack-Open            | 6 /12 | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 167.94<br>106.67   |                     |                    |
|  | 3          | J2<br>Jack-Open            | 6 /12 | 1-09-07  | 2-00-12 | 2 x 4          | 1-03-08<br>4-01-01        | 1-02-00<br>2-00-12           | 34.75<br>22.00     |                     |                    |
|  | 3          | J3<br>Jack-Open            | 6 /12 | 3-09-07  | 3-00-12 | 2 x 4          | 1-03-08<br>2-01-01        | 1-02-00<br>3-00-12           | 42.4<br>26.00      |                     |                    |
|  | 3          | J4<br>Jack-Open            | 6 /12 | 1-09-07  | 2-00-12 | 2 x 4          | 1-03-08<br>1-01           | 1-02-00<br>2-00-12           | 21.06<br>14.00     |                     |                    |
|  | 3          | J5<br>Jack-Open            | 6 /12 | 1-10-08  | 3-00-12 | 2 x 4          | 1-03-08<br>1-10-15        | 1-02-00<br>2-01-04           | 28.71<br>18.00     |                     |                    |
|  | 3          | J31A<br>Jack-Open          | 6 /12 | 4-06-08  | 3-08-00 | 2 x 4          |                           | 1-04-12<br>3-08-00           | 36.57<br>24.00     |                     |                    |

|                                                                                                                                                                    |                                                                                                                                                     |                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPA LUMBER GROUP</small></p> | DELIVERY SHIPLIST                                                                                                                                   |                                                                                                                                               |
|                                                                                                                                                                    | Lumber Yard: TAMARACK LUMBER<br>Builder: GREENPARK HOMES<br>Project: BARLASSINA<br>Location: CAMBRIDGE<br>Model: GARDEN 4<br>Lot #:<br>Elevation: 3 | Job Track: 52956<br>PlanLog: 206398<br>Layout ID: 427574<br>Ref #<br>Page: 2 of 2<br>Date: 08-03-2022<br>Designer:<br>Sales Rep: Rick DiCiano |

## 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          | J32<br>Jack-Open  | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4  | 1-03-08<br>3-02-09        | 1-02-00<br>2-00-12           | 10.58<br>6.67  |                     |                    |
|   | 1          | J32A<br>Jack-Open | 6 /12 | 4-06-08 | 2-00-12 | 2 x 4  |                           | 1-04-12<br>3-08-00           | 8.09<br>5.33   |                     |                    |
|   | 2          | J33A<br>Jack-Open | 6 /12 | 4-06-08 | 3-00-12 | 2 x 4  |                           | 1-04-12<br>3-08-00           | 21.28<br>13.33 |                     |                    |
|   | 2          | J34<br>Jack-Open  | 6 /12 | 1-09-07 | 2-00-12 | 2 x 4  | 1-03-08<br>1-01           | 1-02-00<br>2-00-12           | 14.04<br>9.33  |                     |                    |
|  | 2          | J35<br>Jack-Open  | 6 /12 | 1-10-08 | 3-00-12 | 2 x 4  | 1-03-08<br>1-10-15        | 1-02-00<br>2-01-04           | 19.14<br>12.00 |                     |                    |

TOTAL # TRUSS= 64      TOTAL BFT OF ALL TRUSSES= 1929.67      BFT.      TOTAL WEIGHT OF ALL TRSSES 3055.74      LBS

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 2   | Hardware | LJS26DS  |        |
| 1   | Hardware | HGUS26-2 |        |
| 6   | Hardware | LUS24    |        |

TOTAL NUMBER OF ITEMS= 9

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427546   | T1         | 1        | 2   | TRUSS DESC. |                 |          |

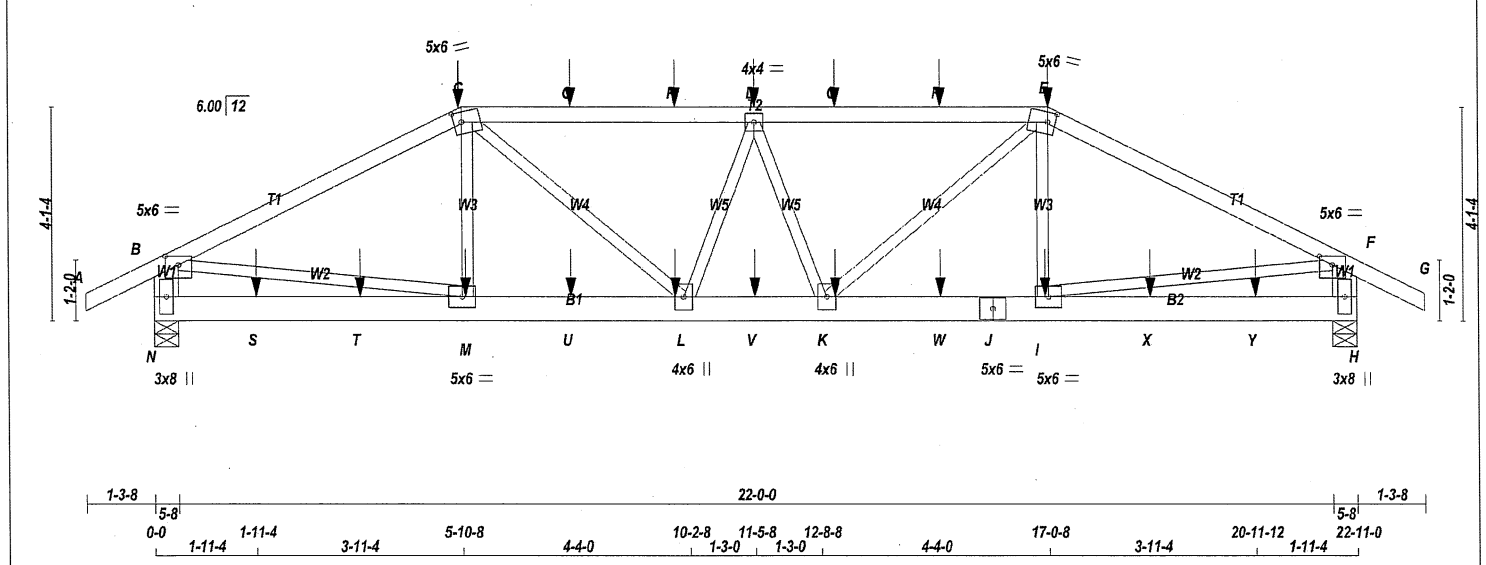
Tamarack Roof Truss, Burlington

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ID:2Om0yVrZwt1e1q0AL1nK7z24Xg-Yth8b2ozG9AyPjnYRDHpgexWw2QVAcJRbHHA51yrvTY

1-3-8 0-0 5-10-8 5-10-8 5-7-0 11-5-8 5-7-0 17-0-8 5-10-8 22-11-0 24-2-8

Scale = 1:42.5



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR. SPF<br>A - C 2x4 DRY No.2 SPF<br>C - E 2x4 DRY No.2 SPF<br>E - G 2x4 DRY No.2 SPF<br>N - B 2x6 DRY No.2 SPF<br>H - F 2x6 DRY No.2 SPF<br>N - J 2x6 DRY No.2 SPF<br>J - H 2x6 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>EXCEPT<br>DRY: SEASONED LUMBER.<br>DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:<br>CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)<br>TOP CHORDS : (0.122"x3") SPIRAL NAILS<br>A - C 1 12 SIDE(61.0)<br>C - E 1 12 SIDE(61.0)<br>E - G 1 12 SIDE(61.0)<br>N - B 2 12 TOP<br>H - F 2 12 TOP<br>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS<br>N - J 2 12 SIDE(183.1)<br>J - H 2 12 SIDE(183.1)<br>WEBS : (0.122"x3") SPIRAL NAILS<br>M - C 1 6 SIDE(18.0)<br>I - E 1 6 SIDE(18.0)<br>2x3 1 6<br>NAILS TO BE DRIVEN FROM ONE SIDE ONLY.<br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br>TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY. |  |  |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br><b>BEARINGS</b><br>FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD<br>DOWN HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>JT 2399 0 2399 0 0 5-8 5-8<br>N 2399 0 2399 0 0 5-8 5-8<br>H 1691 1142 / 0 0 / 0 0 / 0 549 / 0 0 / 0<br>UNFACTORED REACTIONS<br>1ST LCASE MAX / MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL<br>N 1691 1142 / 0 0 / 0 0 / 0 549 / 0 0 / 0<br>H 1691 1142 / 0 0 / 0 0 / 0 549 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) N, H<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.<br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)<br>CHORDS MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. FACTORED<br>MEMB. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO<br>A - B 0 / 29 -95.2 -95.2 0.07 (1) 10.00 M - C -213 / 88 0.03 (1)<br>B - C -3388 / 0 -95.2 -95.2 0.42 (1) 4.64 I - E -213 / 88 0.03 (1)<br>C - O -3753 / 0 -95.2 -95.2 0.53 (1) 4.25 B - M 0 / 3054 0.38 (1)<br>O - P -3753 / 0 -95.2 -95.2 0.53 (1) 4.25 I - F 0 / 3054 0.38 (1)<br>P - D -3753 / 0 -95.2 -95.2 0.53 (1) 4.25 L - D -576 / 0 0.08 (1)<br>D - Q -3753 / 0 -95.2 -95.2 0.53 (1) 4.25 D - K -576 / 0 0.08 (1)<br>Q - R -3753 / 0 -95.2 -95.2 0.53 (1) 4.25 K - E 0 / 971 0.12 (1)<br>R - E -3753 / 0 -95.2 -95.2 0.53 (1) 4.25 C - L 0 / 971 0.12 (1)<br>E - F -3388 / 0 -95.2 -95.2 0.42 (1) 4.64<br>F - G 0 / 29 -95.2 -95.2 0.07 (1) 10.00<br>N - B -2320 / 0 0.0 0.0 0.08 (1) 7.81<br>H - F -2320 / 0 0.0 0.0 0.08 (1) 7.81<br>N - S 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>S - T 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>T - M 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>M - U 0 / 3023 -18.5 -18.5 0.23 (1) 10.00<br>U - L 0 / 3023 -18.5 -18.5 0.23 (1) 10.00<br>L - V 0 / 3947 -18.5 -18.5 0.29 (1) 10.00<br>V - K 0 / 3947 -18.5 -18.5 0.29 (1) 10.00<br>K - W 0 / 3023 -18.5 -18.5 0.23 (1) 10.00<br>W - J 0 / 3023 -18.5 -18.5 0.23 (1) 10.00<br>J - I 0 / 3023 -18.5 -18.5 0.23 (1) 10.00<br>I - X 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>X - Y 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>Y - H 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>SPECIFIED CONCENTRATED LOADS (LBS)<br>JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.<br>C 5-10-8 -370 -370 --- FRONT VERT TOTAL --- C1<br>D 11-5-8 -79 -79 --- FRONT VERT TOTAL --- C1<br>E 17-0-8 -370 -370 --- FRONT VERT TOTAL --- C1<br>I 16-11-12 -21 -21 --- FRONT VERT TOTAL --- C1<br>K 12-11-12 -21 -21 --- FRONT VERT TOTAL --- C1<br>L 9-11-4 -21 -21 --- FRONT VERT TOTAL --- C1<br>M 5-11-4 -21 -21 --- FRONT VERT TOTAL --- C1<br>O 7-11-4 -79 -79 --- FRONT VERT TOTAL --- C1<br>P 9-11-4 -79 -79 --- FRONT VERT TOTAL --- C1<br>Q 12-11-12 -79 -79 --- FRONT VERT TOTAL --- C1 |  |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 26.7 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 40.1 PSF<br>SPACING = 24.0 IN. C/C<br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF CBC 2018, ABC 2019<br>- PART 9 OF CBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.76")<br>CALCULATED VERT. DEFL.(LL) = L/999 (0.07")<br>ALLOWABLE DEFL.(TL)= L/360 (0.76")<br>CALCULATED VERT. DEFL.(TL) = L/999 (0.13")<br>CSI: TC=0.53/1.00 (C-D:1), BC=0.29/1.00 (K-L:1), WB=0.38/1.00 (F-I:1), SSI=0.21/1.00 (C-D:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00<br>COMPANION LIVE LOAD FACTOR = 1.00<br>AUTOSOLVE HEELS OFF<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.<br>NAIL VALUES<br>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 650 371 1747 788 1987 1873<br>PLATE PLACEMENT TOL. = 0.250 inches<br>PLATE ROTATION TOL. = 5.0 Deg.<br>JSI GRIP= 0.72 (F) (INPUT = 0.90)<br>JSI METAL= 0.34 (I) (INPUT = 1.00) |  |  |  |
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TOTAL WEIGHT = 2 X 103 = 207 lb

[M]



STRUCTURAL COMPONENT ONLY  
DWG # TR22080165 PG 1/2

CONTINUED ON PAGE 2

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427546   | T1         | 1        | 2   | TRUSS DESC. |                 |          |

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ID:2Omi0yVrZwt1e1q0AL1nK7z24Xg-Yth8b2ozG9AyPjnYRDHpgexw2QVaCIRbhHA51yrvTY

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 6.0 | 2.00 | 3.00 |
| C  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| D  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| E  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| F  | TMVW-p | MT20   | 5.0 | 6.0 | 2.00 | 3.00 |
| H  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |
| I  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| J  | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| K  | BMWW+t | MT20   | 4.0 | 6.0 |      |      |
| L  | BMWW+t | MT20   | 4.0 | 6.0 |      |      |
| M  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| N  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |

**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. |
|----|----------|-----|------|------|-------|------|-------|------|-------|
| R  | 14-11-12 | -79 | -79  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 1-11-4   | -20 | -20  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| T  | 3-11-4   | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| U  | 7-11-4   | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| V  | 11-5-8   | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| W  | 14-11-12 | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| X  | 18-11-12 | -21 | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| Y  | 20-11-12 | -20 | -20  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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



STRUCTURAL COMPONENT ONLY  
DWG # TR22080165 PG 2/2

|                           |                          |                      |                 |                                     |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427574</b> | TRUSS NAME<br><b>T1Z</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|

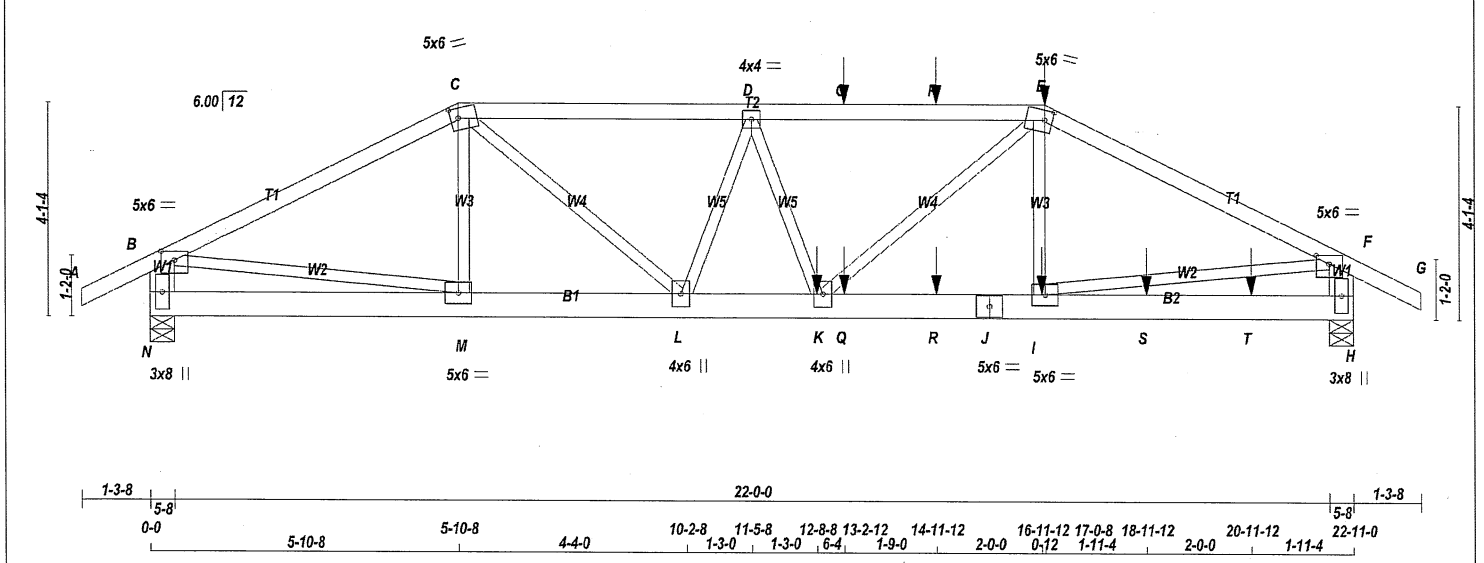
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ID:2Om0yVrZwt1e1q0AL1nK7z24Xg-xl5?YynDbr7et3WS9enePQ6OsjQkyfRsBCKqkCyrVW9

1-3-8 0-0 5-10-8 5-10-8 5-7-0 11-5-8 13-2-12 1-9-4 1-9-0 14-11-12 2-0-12 17-0-8 5-10-8 22-11-0 24-2-8

Scale = 1:42.5



TOTAL WEIGHT = 2 X 103 = 207 lb

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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------------------------|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR.<br>A - C 2x4 DRY No.2 SPF<br>C - E 2x4 DRY No.2 SPF<br>E - G 2x4 DRY No.2 SPF<br>N - B 2x6 DRY No.2 SPF<br>H - F 2x6 DRY No.2 SPF<br>N - J 2x6 DRY No.2 SPF<br>J - H 2x6 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>EXCEPT<br>DRY: SEASONED LUMBER.<br>DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:<br>CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)<br>TOP CHORDS : (0.122"x3") SPIRAL NAILS<br>A-C 1 12 TOP<br>C-E 1 12 SIDE(61.0)<br>E-G 1 12 SIDE(61.0)<br>N-B 2 12 TOP<br>H-F 2 12 TOP<br>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS<br>N-J 2 12 SIDE(0.0)<br>J-H 2 12 SIDE(183.1)<br>WEBS : (0.122"x3") SPIRAL NAILS<br>I-E 1 6 SIDE(18.0)<br>2x3 1 6<br>NAILS TO BE DRIVEN FROM ONE SIDE ONLY.<br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br>TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY. |  |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br><b>BEARINGS</b><br>FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REGRD<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>N 2196 0 2196 0 0 5-8 5-8<br>H 2706 0 2706 0 0 5-8 5-8<br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX/MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>N 1544 1061 / 0 0 / 0 0 / 0 484 / 0 0 / 0<br>H 1905 1300 / 0 0 / 0 0 / 0 605 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) N, H<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.03 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.<br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)<br>C H O R D S<br>MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. WEBS<br>MEMB. (LBS) (PLF) CSI (LC) UNBRAC MEMB. (LBS) MAX. MAX. FACTORED<br>FR-TO FROM TO LENGTH FR-TO<br>A-B 0 / 29 -95.2 -95.2 0.07 (1) 10.00 M-C -246 / 14 0.03 (1)<br>B-C -3071 / 0 -95.2 -95.2 0.40 (1) 4.85 I-E -255 / 81 0.03 (1)<br>C-D -4052 / 0 -95.2 -95.2 0.45 (1) 4.25 B-M 0 / 2768 0.34 (1)<br>D-O -4537 / 0 -95.2 -95.2 0.48 (1) 4.03 I-F 0 / 3546 0.44 (1)<br>O-P -4537 / 0 -95.2 -95.2 0.48 (1) 4.03 L-D -1142 / 0 0.16 (1)<br>P-E -4537 / 0 -95.2 -95.2 0.48 (1) 4.03 D-K 0 / 295 0.04 (1)<br>E-F -3934 / 0 -95.2 -95.2 0.45 (1) 4.35 K-E 0 / 1366 0.17 (1)<br>F-G 0 / 29 -95.2 -95.2 0.07 (1) 10.00 C-L 0 / 1747 0.22 (1)<br>N-B -2141 / 0 0.0 0.0 0.08 (1) 7.81<br>H-F -2628 / 0 0.0 0.0 0.09 (1) 7.81<br>N-M 0 / 0 -18.5 -18.5 0.04 (4) 10.00<br>M-L 0 / 2739 -18.5 -18.5 0.20 (1) 10.00<br>L-K 0 / 4438 -18.5 -18.5 0.34 (1) 10.00<br>K-Q 0 / 3510 -18.5 -18.5 0.28 (1) 10.00<br>Q-R 0 / 3510 -18.5 -18.5 0.28 (1) 10.00<br>R-J 0 / 3510 -18.5 -18.5 0.28 (1) 10.00<br>J-I 0 / 3510 -18.5 -18.5 0.28 (1) 10.00<br>I-S 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>S-T 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br>T-H 0 / 0 -18.5 -18.5 0.07 (4) 10.00<br><b>SPECIFIED CONCENTRATED LOADS (LBS)</b><br>JT LOC. LC1 MAX. MAX+ FACE DIR. TYPE HEEL CONN.<br>E 17-0-8 -370 -370 --- FRONT VERT TOTAL --- C1<br>I 16-11-12 -21 -21 --- FRONT VERT TOTAL --- C1<br>K 12-8-8 -800 -800 --- FRONT VERT TOTAL --- C1<br>O 13-2-12 -79 -79 --- FRONT VERT TOTAL --- C1<br>P 14-11-12 -79 -79 --- FRONT VERT TOTAL --- C1<br>Q 13-2-12 -21 -21 --- FRONT VERT TOTAL --- C1<br>R 14-11-12 -21 -21 --- FRONT VERT TOTAL --- C1<br>S 18-11-12 -21 -21 --- FRONT VERT TOTAL --- C1<br>T 20-11-12 -20 -20 --- FRONT VERT TOTAL --- C1<br><b>CONNECTION REQUIREMENTS</b><br>1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED. |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 26.7 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 40.1 PSF<br><b>SPACING = 24.0 IN. C/C</b><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF BCBC 2018, ABC 2019<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.76")<br>CALCULATED VERT. DEFL.(LL) = L/999 (0.08")<br>ALLOWABLE DEFL.(TL)= L/360 (0.76")<br>CALCULATED VERT. DEFL.(TL) = L/999 (0.14")<br>CSI: TC=0.48/1.00 (D-E:1), BC=0.34/1.00 (K-L:1), WB=0.44/1.00 (F-I:1), SSI=0.20/1.00 (D-E:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00<br>COMPANION LIVE LOAD FACTOR = 1.00<br>AUTOSOLVE HEELS OFF<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.<br>NAIL VALUES<br>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 650 371 1747 788 1987 1873<br>PLATE PLACEMENT TOL. = 0.250 inches<br>PLATE ROTATION TOL. = 5.0 Deg.<br>JSI GRIP= 0.85 (C) (INPUT = 0.90)<br>JSI METAL= 0.40 (I) (INPUT = 1.00) |  |  |
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STRUCTURAL COMPONENT ONLY  
DWG # TR22080200

|                                 |            |          |     |                 |          |
|---------------------------------|------------|----------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
| 427574                          | T1Z        | 1        | 2   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

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ID:2Omi0yVrZwt1e1q0AL1nK7z24Xg-xl5?YynDbr7et3WS9enePQ6OsiQkyfRsBCKqkCyrVW9

**PLATES (table is in inches)**

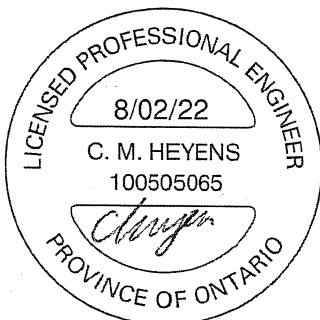
| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW-p | MT20   | 5.0 | 6.0 | 2.00 | 3.00 |
| C  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| D  | TMWW-t | MT20   | 4.0 | 4.0 |      |      |
| E  | TTWW-m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| F  | TMVW-p | MT20   | 5.0 | 6.0 | 2.00 | 3.00 |
| H  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |
| I  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| J  | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| K  | BMWW+t | MT20   | 4.0 | 6.0 |      |      |
| L  | BMWW+t | MT20   | 4.0 | 6.0 |      |      |
| M  | BMWW-t | MT20   | 5.0 | 6.0 |      |      |
| N  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |

**NOTES- (1)**

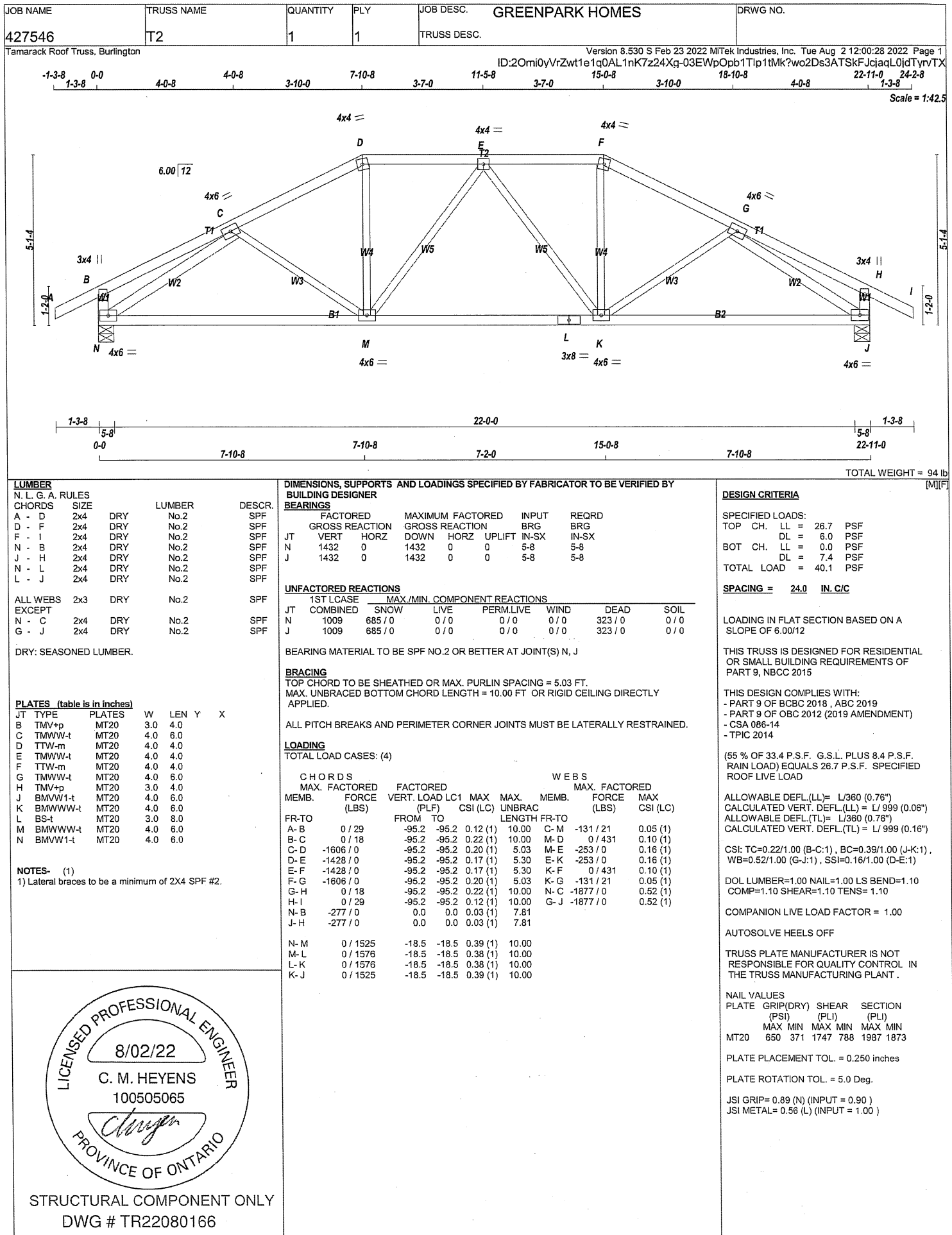
1) Lateral braces to be a minimum of 2X4 SPF #2.

**CONNECTION REQUIREMENTS**

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



STRUCTURAL COMPONENT ONLY  
DWG # TR22080200 PG 2/2

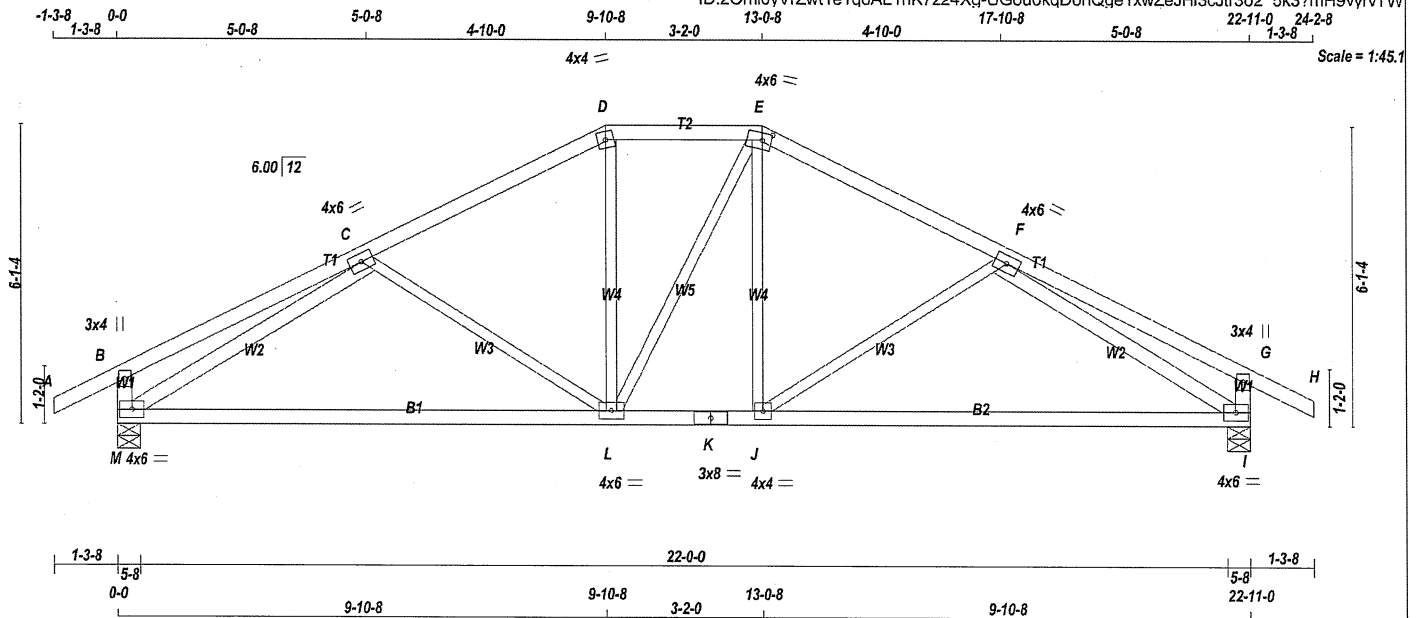


|                           |                         |                      |                 |                                     |          |
|---------------------------|-------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427546</b> | TRUSS NAME<br><b>T3</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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TOTAL WEIGHT = 97 lb

|                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
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| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR. SPF<br>A - D 2x4 DRY No.2 SPF<br>D - E 2x4 DRY No.2 SPF<br>E - H 2x4 DRY No.2 SPF<br>M - B 2x4 DRY No.2 SPF<br>I - G 2x4 DRY No.2 SPF<br>M - K 2x4 DRY No.2 SPF<br>K - I 2x4 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>EXCEPT<br>M - C 2x4 DRY No.2 SPF<br>F - I 2x4 DRY No.2 SPF<br>DRY: SEASONED LUMBER. |  |  |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br><b>BEARINGS</b><br>FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>M 1432 0 1432 0 0 5-8 5-8<br>I 1432 0 1432 0 0 5-8 5-8<br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX./MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>M 1009 685 / 0 0 / 0 0 / 0 0 / 0 323 / 0 0 / 0<br>I 1009 685 / 0 0 / 0 0 / 0 0 / 0 323 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) M, I<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.08 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.<br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.<br><b>LOADING</b><br>TOTAL LOAD CASES: (4)<br>CHORDS FACTORED WEBS<br>MEMB. MAX. FORCE VERT. LOAD LC1 MAX MAX. MEMB. MAX. FORCE MAX<br>(LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC)<br>FR-TO FROM TO LENGTH FR-TO<br>A-B 0 / 29 -95.2 -95.2 0.12 (1) 10.00 C-L -323 / 0 0.21 (1)<br>B-C 0 / 24 -95.2 -95.2 0.37 (1) 10.00 L-D 0 / 314 0.07 (1)<br>C-D -1460 / 0 -95.2 -95.2 0.31 (1) 5.08 L-E 0 / 1 0.00 (1)<br>D-E -1289 / 0 -95.2 -95.2 0.14 (1) 5.55 J-E 0 / 313 0.07 (1)<br>E-F -1460 / 0 -95.2 -95.2 0.31 (1) 5.08 J-F -323 / 0 0.21 (1)<br>F-G 0 / 24 -95.2 -95.2 0.37 (1) 10.00 M-C -1870 / 0 0.83 (1)<br>G-H 0 / 29 -95.2 -95.2 0.12 (1) 10.00 F-I -1870 / 0 0.83 (1)<br>M-B -311 / 0 0.0 0.0 0.03 (1) 7.81<br>I-G -311 / 0 0.0 0.0 0.03 (1) 7.81<br>M-L 0 / 1552 -18.5 -18.5 0.49 (4) 10.00<br>L-K 0 / 1288 -18.5 -18.5 0.49 (4) 10.00<br>K-J 0 / 1288 -18.5 -18.5 0.49 (4) 10.00<br>J-I 0 / 1551 -18.5 -18.5 0.49 (4) 10.00 |  |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 26.7 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 40.1 PSF<br><b>SPACING = 24.0 IN. C/C</b><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF BCBC 2018, ABC 2019<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.76")<br>CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")<br>ALLOWABLE DEFL.(TL)= L/360 (0.76")<br>CALCULATED VERT. DEFL.(TL) = L/ 881 (0.32")<br>CSI: TC=0.37/1.00 (F-G:1) , BC=0.49/1.00 (L-M:4) , WB=0.83/1.00 (C-M:1) , SSI=0.20/1.00 (F-G:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10<br>COMPANION LIVE LOAD FACTOR = 1.00<br>AUTOSOLVE HEELS OFF<br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .<br>NAIL VALUES<br>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 650 371 1747 788 1987 1873<br>PLATE PLACEMENT TOL. = 0.250 inches<br>PLATE ROTATION TOL. = 5.0 Deg.<br>JSI GRIP= 0.89 (M) (INPUT = 0.90 )<br>JSI METAL= 0.85 (K) (INPUT = 1.00 ) |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|

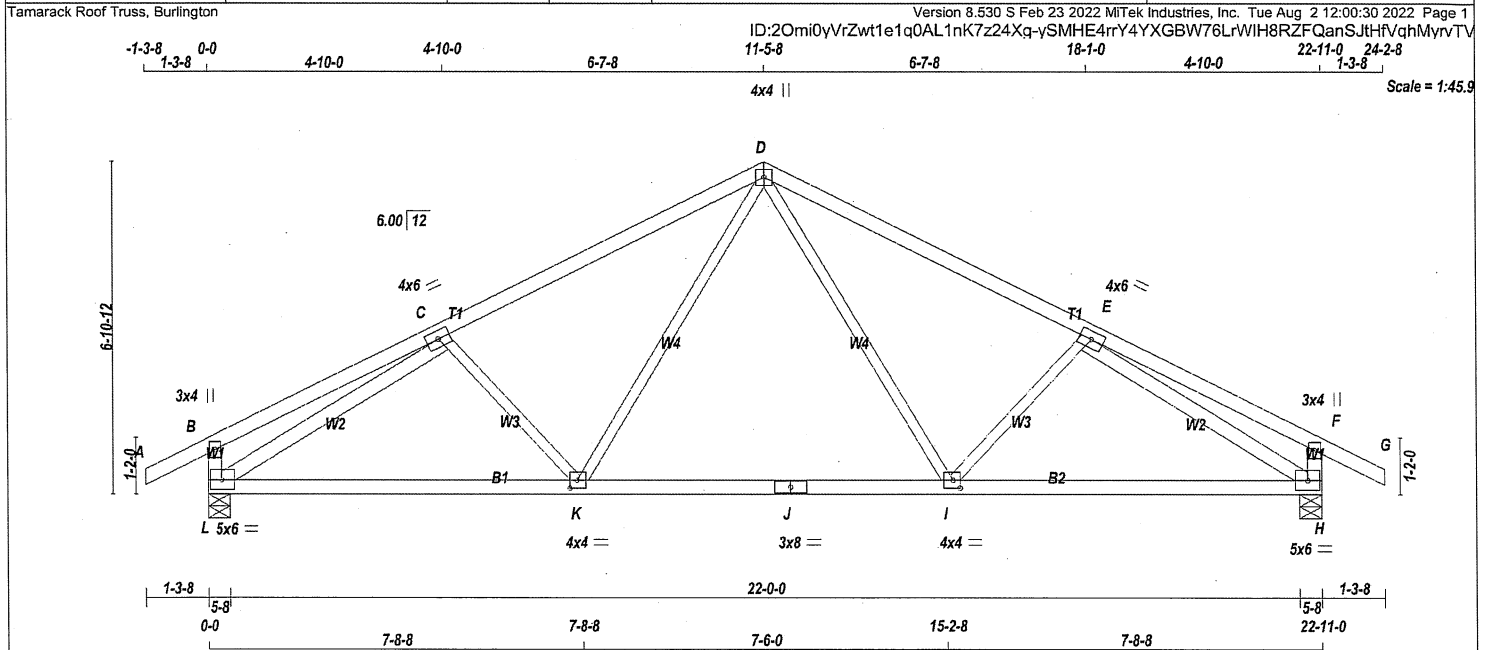
| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 6.0 |      |      |
| D  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| E  | TTWW-m  | MT20   | 4.0 | 6.0 | 1.75 | 2.25 |
| F  | TMWW-t  | MT20   | 4.0 | 6.0 |      |      |
| G  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| I  | BMVW1-t | MT20   | 4.0 | 6.0 |      |      |
| J  | BMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| K  | BS-t    | MT20   | 3.0 | 8.0 |      |      |
| L  | BMVWW-t | MT20   | 4.0 | 6.0 |      |      |
| M  | BMVW1-t | MT20   | 4.0 | 6.0 |      |      |

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



STRUCTURAL COMPONENT ONLY  
DWG # TR22080167

|                                 |                         |                       |                 |                                     |          |
|---------------------------------|-------------------------|-----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427546</b>       | TRUSS NAME<br><b>T4</b> | QUANTITY<br><b>14</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   | DESCR. |
|----------|------|----------|--------|
| A - D    | 2x4  | DRY No.2 | SPF    |
| C - 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   |      |          |        |
| L - C    | 2x4  | DRY No.2 | SPF    |
| E - H    | 2x4  | DRY No.2 | SPF    |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 6.0 |      |      |
| D  | TTWW+p  | MT20   | 4.0 | 4.0 |      |      |
| E  | TMWW-t  | MT20   | 4.0 | 6.0 |      |      |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| I  | BMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| J  | BS-t    | MT20   | 3.0 | 8.0 |      |      |
| K  | BMVW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| L  | BMVW1-t | MT20   | 5.0 | 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**

**BEARINGS**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQD |
|----|-------------------------|---------------------------------|-------|------|
| JT | VERT                    | HORZ                            | DOWN  | HORZ |
| L  | 1432                    | 0                               | 1432  | 0    |
| H  | 1432                    | 0                               | 1432  | 0    |

**UNFACTORED REACTIONS**

|    | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |       |           |       |         |       |  |
|----|-----------|------------------------------|-------|-----------|-------|---------|-------|--|
| JT | COMBINED  | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| L  | 1009      | 685 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 323 / 0 | 0 / 0 |  |
| H  | 1009      | 685 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 323 / 0 | 0 / 0 |  |

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) | MEMB.    |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |          |
| A-B    | 0 / 29                    | -95.2 -95.2               | 0.12 (1)                  | 10.00 | D-I                       | 0 / 496                   | 0.11 (1) |
| B-C    | 0 / 38                    | -95.2 -95.2               | 0.56 (1)                  | 10.00 | I-E                       | -368 / 0                  | 0.12 (1) |
| C-D    | -1566 / 0                 | -95.2 -95.2               | 0.57 (1)                  | 4.58  | K-D                       | 0 / 496                   | 0.11 (1) |
| D-E    | -1566 / 0                 | -95.2 -95.2               | 0.57 (1)                  | 4.58  | C-K                       | -368 / 0                  | 0.12 (1) |
| E-F    | 0 / 38                    | -95.2 -95.2               | 0.56 (1)                  | 10.00 | L-C                       | -1964 / 0                 | 0.77 (1) |
| F-G    | 0 / 29                    | -95.2 -95.2               | 0.12 (1)                  | 10.00 | E-H                       | -1964 / 0                 | 0.77 (1) |
| L-B    | -268 / 0                  | 0.0 0.0                   | 0.03 (1)                  | 7.81  |                           |                           |          |
| H-F    | -268 / 0                  | 0.0 0.0                   | 0.03 (1)                  | 7.81  |                           |                           |          |
| L-K    | 0 / 1623                  | -18.5 -18.5               | 0.39 (1)                  | 10.00 |                           |                           |          |
| K-J    | 0 / 1127                  | -18.5 -18.5               | 0.34 (4)                  | 10.00 |                           |                           |          |
| J-I    | 0 / 1127                  | -18.5 -18.5               | 0.34 (4)                  | 10.00 |                           |                           |          |
| I-H    | 0 / 1623                  | -18.5 -18.5               | 0.39 (1)                  | 10.00 |                           |                           |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 26.7 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 40.1 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 CBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.76")  
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.06")  
ALLOWABLE DEFL.(TL)= L/360 (0.76")  
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.14")

CSI: TC=0.57/1.00 (D-E:1), BC=0.39/1.00 (H-I:1), WB=0.77/1.00 (E-H:1), SSI=0.27/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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            |
| MT20  | 650       | 371   | 1747 788 1987 1873 |

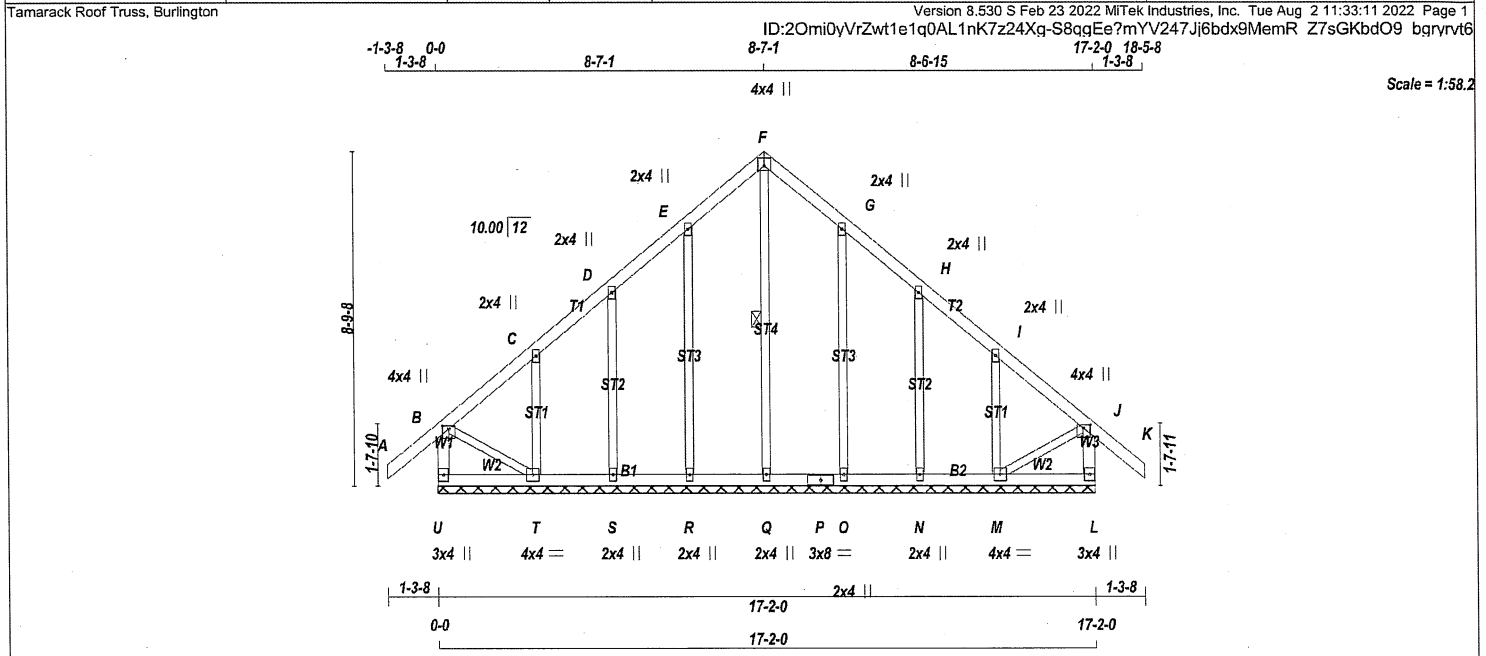
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90 )  
JSI METAL= 0.42 (E) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080168



| TOTAL WEIGHT = 2 X 87 = 173 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                           |                  |       |                           |                           | [M]              |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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         |       |  |         |  |       |  |  |  |     |          |         |          |     |          |  |          |     |        |             |          |       |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |        |          |     |         |             |          |      |     |        |          |     |         |             |          |      |  |  |  |     |        |             |          |       |  |  |  |     |          |         |          |      |  |  |  |     |       |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |       |             |          |       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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--------------|-------|--|---------|--|-------|--|--|--|-----|----------|---------|----------|-----|----------|--|----------|-----|--------|-------------|----------|-------|-----|----------|----------|-----|---------|-------------|----------|------|-----|----------|----------|-----|---------|-------------|----------|------|-----|----------|----------|-----|---------|-------------|----------|------|-----|----------|----------|-----|---------|-------------|----------|------|-----|----------|----------|-----|---------|-------------|----------|------|-----|----------|----------|-----|---------|-------------|----------|------|-----|--------|----------|-----|---------|-------------|----------|------|-----|--------|----------|-----|---------|-------------|----------|------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|----------|---------|----------|------|--|--|--|-----|-------|-------------|----------|-------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|--------|-------------|----------|-------|--|--|--|-----|-------|-------------|----------|-------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|---------|----|---|------|-----|--|----|---|-----|-----|---------|----|---|-----|-----|--|----|---|-----|-----|------------|---|------|-----|--|-------|-----------|-------|---------|--|-------|-------|-------|--|-----|-----|-----|------|-----|-----|------|--|-----|------|------|
| <div>LUMBER</div> <div>N. L. G. A. RULES</div> <table><tr><td>CHORDS</td><td>SIZE</td><td>LUMBER</td><td>DESCR.</td></tr><tr><td>U - B</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>A - F</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>F - K</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>L - J</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>U - P</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>P - L</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr></table> <div>ALL WEBS 2x3 DRY No.2 SPF</div> <div>ALL GABLE WEBS 2x3 DRY No.2 SPF</div> <div>DRY: SEASONED LUMBER.</div> <div>GABLE STUDS SPACED AT 2-0-0 OC.</div> |                           |                           |                  |       |                           |                           | CHORDS           | SIZE | LUMBER | DESCR. | U - B | 2x4 | DRY | No.2 SPF | A - F | 2x4 | DRY | No.2 SPF | F - K | 2x4 | DRY | No.2 SPF | L - J | 2x4 | DRY | No.2 SPF | U - P | 2x4 | DRY | No.2 SPF | P - L | 2x4 | DRY | No.2 SPF | <div>SIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</div> <div>BEARINGS</div> <div>THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.</div> <div>THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.</div> <div>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)</div> <div>BRACING</div> <div>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.</div> <div>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.</div> <div>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.</div> <div>1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-Q.</div> <div>END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW</div> <div>LOADING</div> <div>TOTAL LOAD CASES: (4)</div> <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 CSI (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>U-B</td><td>-272 / 0</td><td>0.0 0.0</td><td>0.03 (1)</td><td>Q-F</td><td>-128 / 0</td><td></td><td>0.06 (1)</td></tr><tr><td>A-B</td><td>0 / 42</td><td>-95.2 -95.2</td><td>0.13 (1)</td><td>10.00</td><td>R-E</td><td>-220 / 0</td><td>0.19 (1)</td></tr><tr><td>B-C</td><td>-28 / 0</td><td>-95.2 -95.2</td><td>0.08 (1)</td><td>6.25</td><td>S-D</td><td>-165 / 0</td><td>0.07 (1)</td></tr><tr><td>C-D</td><td>-43 / 0</td><td>-95.2 -95.2</td><td>0.08 (1)</td><td>6.25</td><td>T-C</td><td>-246 / 0</td><td>0.06 (1)</td></tr><tr><td>D-E</td><td>-25 / 0</td><td>-95.2 -95.2</td><td>0.06 (1)</td><td>6.25</td><td>O-G</td><td>-220 / 0</td><td>0.19 (1)</td></tr><tr><td>E-F</td><td>-38 / 0</td><td>-95.2 -95.2</td><td>0.06 (1)</td><td>6.25</td><td>N-H</td><td>-165 / 0</td><td>0.07 (1)</td></tr><tr><td>F-G</td><td>-38 / 0</td><td>-95.2 -95.2</td><td>0.06 (1)</td><td>6.25</td><td>M-I</td><td>-245 / 0</td><td>0.06 (1)</td></tr><tr><td>G-H</td><td>-25 / 0</td><td>-95.2 -95.2</td><td>0.06 (1)</td><td>6.25</td><td>B-T</td><td>0 / 36</td><td>0.01 (1)</td></tr><tr><td>H-I</td><td>-43 / 0</td><td>-95.2 -95.2</td><td>0.08 (1)</td><td>6.25</td><td>M-J</td><td>0 / 36</td><td>0.01 (1)</td></tr><tr><td>I-J</td><td>-28 / 0</td><td>-95.2 -95.2</td><td>0.08 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>J-K</td><td>0 / 42</td><td>-95.2 -95.2</td><td>0.13 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>L-J</td><td>-272 / 0</td><td>0.0 0.0</td><td>0.03 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>U-T</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.03 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>T-S</td><td>0 / 26</td><td>-18.5 -18.5</td><td>0.03 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>S-R</td><td>0 / 23</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>R-Q</td><td>0 / 20</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>Q-P</td><td>0 / 20</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>P-O</td><td>0 / 20</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>O-N</td><td>0 / 23</td><td>-18.5 -18.5</td><td>0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>N-M</td><td>0 / 26</td><td>-18.5 -18.5</td><td>0.03 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>M-L</td><td>0 / 0</td><td>-18.5 -18.5</td><td>0.03 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table> |  |  |  |  |  |  | CHORDS |  |  |  | WEBS |  |  |  | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 CSI (LC) | FR-TO |  | FROM TO |  | FR-TO |  |  |  | U-B | -272 / 0 | 0.0 0.0 | 0.03 (1) | Q-F | -128 / 0 |  | 0.06 (1) | A-B | 0 / 42 | -95.2 -95.2 | 0.13 (1) | 10.00 | R-E | -220 / 0 | 0.19 (1) | B-C | -28 / 0 | -95.2 -95.2 | 0.08 (1) | 6.25 | S-D | -165 / 0 | 0.07 (1) | C-D | -43 / 0 | -95.2 -95.2 | 0.08 (1) | 6.25 | T-C | -246 / 0 | 0.06 (1) | D-E | -25 / 0 | -95.2 -95.2 | 0.06 (1) | 6.25 | O-G | -220 / 0 | 0.19 (1) | E-F | -38 / 0 | -95.2 -95.2 | 0.06 (1) | 6.25 | N-H | -165 / 0 | 0.07 (1) | F-G | -38 / 0 | -95.2 -95.2 | 0.06 (1) | 6.25 | M-I | -245 / 0 | 0.06 (1) | G-H | -25 / 0 | -95.2 -95.2 | 0.06 (1) | 6.25 | B-T | 0 / 36 | 0.01 (1) | H-I | -43 / 0 | -95.2 -95.2 | 0.08 (1) | 6.25 | M-J | 0 / 36 | 0.01 (1) | I-J | -28 / 0 | -95.2 -95.2 | 0.08 (1) | 6.25 |  |  |  | J-K | 0 / 42 | -95.2 -95.2 | 0.13 (1) | 10.00 |  |  |  | L-J | -272 / 0 | 0.0 0.0 | 0.03 (1) | 7.81 |  |  |  | U-T | 0 / 0 | -18.5 -18.5 | 0.03 (4) | 10.00 |  |  |  | T-S | 0 / 26 | -18.5 -18.5 | 0.03 (4) | 10.00 |  |  |  | S-R | 0 / 23 | -18.5 -18.5 | 0.02 (4) | 10.00 |  |  |  | R-Q | 0 / 20 | -18.5 -18.5 | 0.02 (4) | 10.00 |  |  |  | Q-P | 0 / 20 | -18.5 -18.5 | 0.02 (4) | 10.00 |  |  |  | P-O | 0 / 20 | -18.5 -18.5 | 0.02 (4) | 10.00 |  |  |  | O-N | 0 / 23 | -18.5 -18.5 | 0.02 (4) | 10.00 |  |  |  | N-M | 0 / 26 | -18.5 -18.5 | 0.03 (4) | 10.00 |  |  |  | M-L | 0 / 0 | -18.5 -18.5 | 0.03 (4) | 10.00 |  |  |  | <div>DESIGN CRITERIA</div> <div>SPECIFIED LOADS:</div> <table><tr><td>TOP CH.</td><td>LL</td><td>=</td><td>26.7</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>6.0</td><td>PSF</td></tr><tr><td>BOT CH.</td><td>LL</td><td>=</td><td>0.0</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>7.4</td><td>PSF</td></tr><tr><td>TOTAL LOAD</td><td>=</td><td>40.1</td><td>PSF</td><td></td></tr></table> <div>SPACING = 24.0 IN. C/C</div> <div>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015</div> <div>THIS DESIGN COMPLIES WITH:</div> <div>- PART 9 OF CBC 2018 , ABC 2019</div> <div>- PART 9 OF OBC 2012 (2019 AMENDMENT)</div> <div>- CSA 086-14</div> <div>- TPIC 2014</div> <div>(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD</div> <div>CSI: TC=0.13/1.00 (A-B:1) , BC=0.03/1.00 (S-T:4) , WB=0.19/1.00 (E-R:1) , SI=0.08/1.00 (B-C:1)</div> <div>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10</div> <div>COMPANION LIVE LOAD FACTOR = 1.00</div> <div>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .</div> <div>NAIL VALUES</div> <table><tr><td>PLATE</td><td>GRIP(DRY)</td><td>SHEAR</td><td>SECTION</td></tr><tr><td></td><td>(PSI)</td><td>(PLI)</td><td>(PLI)</td></tr><tr><td></td><td>MAX</td><td>MIN</td><td>MAX</td></tr><tr><td>MT20</td><td>650</td><td>371</td><td>1747</td></tr><tr><td></td><td>788</td><td>1987</td><td>1873</td></tr></table> <div>PLATE PLACEMENT TOL. = 0.250 inches</div> <div>PLATE ROTATION TOL. = 5.0 Deg.</div> <div>JSI GRIP= 0.76 (F) (INPUT = 0.90 )</div> <div>JSI METAL= 0.13 (C) (INPUT = 1.00 )</div> |  |  |  |  |  |  | TOP CH. | LL | = | 26.7 | PSF |  | DL | = | 6.0 | PSF | BOT CH. | LL | = | 0.0 | PSF |  | DL | = | 7.4 | PSF | TOTAL LOAD | = | 40.1 | PSF |  | PLATE | GRIP(DRY) | SHEAR | SECTION |  | (PSI) | (PLI) | (PLI) |  | MAX | MIN | MAX | MT20 | 650 | 371 | 1747 |  | 788 | 1987 | 1873 |
| CHORDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SIZE                      | LUMBER                    | DESCR.           |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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         |       |  |         |  |       |  |  |  |     |          |         |          |     |          |  |          |     |        |             |          |       |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |          |          |     |         |             |          |      |     |        |          |     |         |             |          |      |     |        |          |     |         |             |          |      |  |  |  |     |        |             |          |       |  |  |  |     |          |         |          |      |  |  |  |     |       |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |       |             |          |       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |         |    |   |      |     |  |    |   |     |     |         |    |   |     |     |  |    |   |     |     |            |   |      |     |  |       |           |       |         |  |       |       |       |  |     |     |     |      |     |     |      |  |     |      |      |
| U - B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2x4                       | DRY                       | No.2 SPF         |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| A - F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2x4                       | DRY                       | No.2 SPF         |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| L - J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2x4                       | DRY                       | No.2 SPF         |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| MEMB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 CSI (LC) |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| FR-TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           | FROM TO                   |                  | FR-TO |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| U-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -272 / 0                  | 0.0 0.0                   | 0.03 (1)         | Q-F   | -128 / 0                  |                           | 0.06 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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|  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |       |             |          |       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| A-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 42                    | -95.2 -95.2               | 0.13 (1)         | 10.00 | R-E                       | -220 / 0                  | 0.19 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| B-C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -28 / 0                   | -95.2 -95.2               | 0.08 (1)         | 6.25  | S-D                       | -165 / 0                  | 0.07 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| C-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -43 / 0                   | -95.2 -95.2               | 0.08 (1)         | 6.25  | T-C                       | -246 / 0                  | 0.06 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |       |             |          |       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| D-E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -25 / 0                   | -95.2 -95.2               | 0.06 (1)         | 6.25  | O-G                       | -220 / 0                  | 0.19 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |       |             |          |       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| E-F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -38 / 0                   | -95.2 -95.2               | 0.06 (1)         | 6.25  | N-H                       | -165 / 0                  | 0.07 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| F-G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -38 / 0                   | -95.2 -95.2               | 0.06 (1)         | 6.25  | M-I                       | -245 / 0                  | 0.06 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| G-H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -25 / 0                   | -95.2 -95.2               | 0.06 (1)         | 6.25  | B-T                       | 0 / 36                    | 0.01 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |       |             |          |       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| H-I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -43 / 0                   | -95.2 -95.2               | 0.08 (1)         | 6.25  | M-J                       | 0 / 36                    | 0.01 (1)         |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |        |             |          |       |  |  |  |     |       |             |          |       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| I-J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -28 / 0                   | -95.2 -95.2               | 0.08 (1)         | 6.25  |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| J-K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 42                    | -95.2 -95.2               | 0.13 (1)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| L-J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -272 / 0                  | 0.0 0.0                   | 0.03 (1)         | 7.81  |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| U-T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 0                     | -18.5 -18.5               | 0.03 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| T-S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 26                    | -18.5 -18.5               | 0.03 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| S-R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 23                    | -18.5 -18.5               | 0.02 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| R-Q                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 20                    | -18.5 -18.5               | 0.02 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| Q-P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 20                    | -18.5 -18.5               | 0.02 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| P-O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 20                    | -18.5 -18.5               | 0.02 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| O-N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 23                    | -18.5 -18.5               | 0.02 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| N-M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 / 26                    | -18.5 -18.5               | 0.03 (4)         | 10.00 |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| TOP CH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LL                        | =                         | 26.7             | PSF   |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DL                        | =                         | 6.0              | PSF   |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| BOT CH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LL                        | =                         | 0.0              | PSF   |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DL                        | =                         | 7.4              | PSF   |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| TOTAL LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | =                         | 40.1                      | PSF              |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| PLATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GRIP(DRY)                 | SHEAR                     | SECTION          |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (PSI)                     | (PLI)                     | (PLI)            |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MAX                       | MIN                       | MAX              |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     | 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| MT20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 650                       | 371                       | 1747             |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 788                       | 1987                      | 1873             |       |                           |                           |                  |      |        |        |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |       |     |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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LICENSED PROFESSIONAL ENGINEER

8/02/22

C. M. HEYENS

100505065

*Chayen*

PROVINCE OF ONTARIO

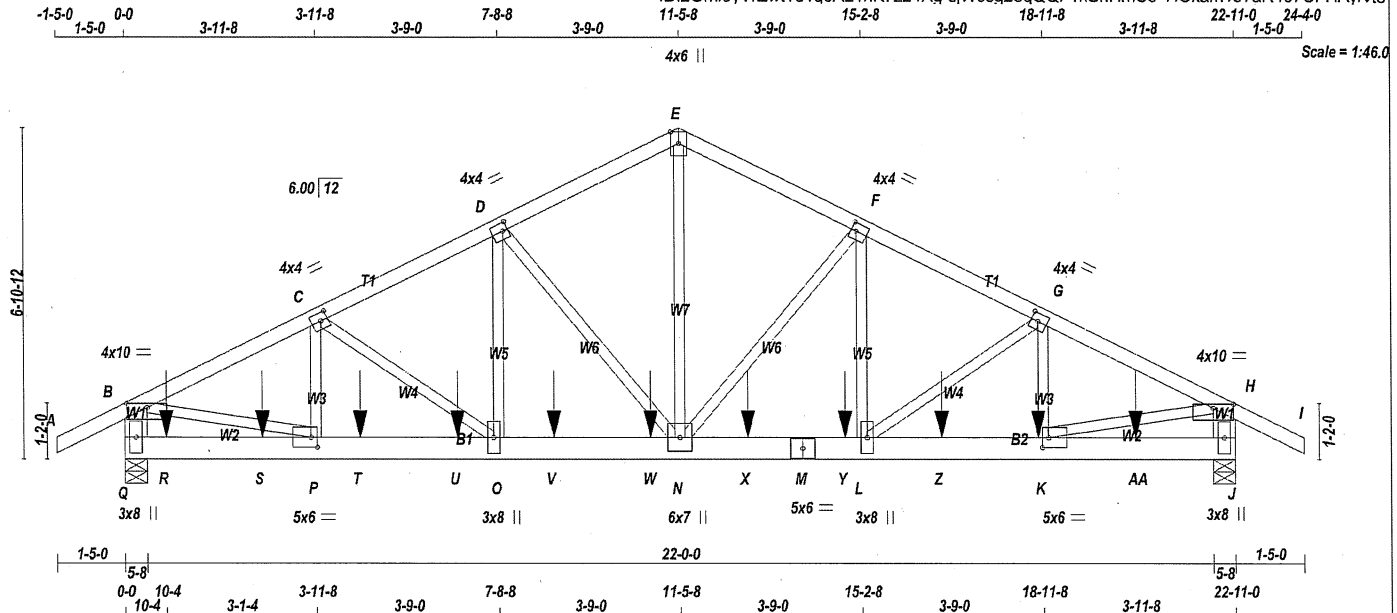
STRUCTURAL COMPONENT ONLY

DWG # TR22080169



|                                 |                  |               |          |                              |          |
|---------------------------------|------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427546              | TRUSS NAME<br>T5 | QUANTITY<br>1 | PLY<br>3 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                  |               |          |                              |          |

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Scale = 1:46.0



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

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

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 - E 1                                  | 12                   | TOP         |
| E - I 1                                  | 12                   | TOP         |
| Q - B 2                                  | 12                   | TOP         |
| J - H 2                                  | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| Q - M 2                                  | 10                   | SIDE(284.5) |
| M - J 2                                  | 10                   | SIDE(458.6) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    |             |

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT          |      | REQRD |      |
|----------|------|----------------|------|------------------|------|----------------|------|-------|------|
| JT       | VERT | GROSS REACTION | HORZ | JT               | VERT | GROSS REACTION | HORZ | JT    | VERT |
| Q        | 7747 | 0              | 0    | 7747             | 0    | 0              | 0    | 5-8   | 5-8  |
| J        | 7124 | 0              | 0    | 7124             | 0    | 0              | 0    | 5-8   | 5-8  |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |
|-----------|------------------------------|-----------|------------------------------|
| JT        | COMBINED                     | JT        | COMBINED                     |
| Q         | 5443 3775 / 0                | Q         | 5443 3775 / 0                |
| J         | 5005 3471 / 0                | J         | 5005 3471 / 0                |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.66 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED |                | MAX. FACTORED |        | WEBS      |             | FACTORED |          | MAX. FACTORED |        |
|--------|-------------|----------|----------------|---------------|--------|-----------|-------------|----------|----------|---------------|--------|
| MEMB.  | FORCE (LBS) | VERT.    | LOAD LC1       | MAX.          | UNBRAC | MEMB.     | FORCE (LBS) | VERT.    | LOAD LC1 | MAX.          | UNBRAC |
| FR-TO  |             | FROM     | TO             |               | LENGTH | FR-TO     |             | FROM     | TO       |               | LENGTH |
| A-B    | 0 / 32      | -95.2    | -95.2 0.05 (1) | 10.00         | N-E    | 0 / 6432  | 0.48 (1)    |          |          |               |        |
| B-C    | -10221 / 0  | -95.2    | -95.2 0.24 (1) | 3.66          | N-F    | -2627 / 0 | 0.52 (1)    |          |          |               |        |
| C-D    | -9419 / 0   | -95.2    | -95.2 0.18 (1) | 3.85          | L-F    | 0 / 2478  | 0.19 (1)    |          |          |               |        |
| D-E    | -7552 / 0   | -95.2    | -95.2 0.14 (1) | 4.25          | L-G    | -798 / 0  | 0.09 (1)    |          |          |               |        |
| E-F    | -7552 / 0   | -95.2    | -95.2 0.14 (1) | 4.25          | K-G    | 0 / 432   | 0.03 (1)    |          |          |               |        |
| F-G    | -9387 / 0   | -95.2    | -95.2 0.18 (1) | 3.85          | D-N    | -2673 / 0 | 0.53 (1)    |          |          |               |        |
| G-H    | -10108 / 0  | -95.2    | -95.2 0.23 (1) | 3.68          | O-D    | 0 / 2527  | 0.19 (1)    |          |          |               |        |
| H-I    | 0 / 32      | -95.2    | -95.2 0.05 (1) | 10.00         | C-O    | -887 / 0  | 0.10 (1)    |          |          |               |        |
| Q-B    | -6684 / 0   | 0.0      | 0.0 0.14 (1)   | 6.85          | P-C    | 0 / 522   | 0.04 (1)    |          |          |               |        |
| J-H    | -6613 / 0   | 0.0      | 0.0 0.14 (1)   | 6.88          | B-P    | 0 / 9318  | 0.70 (1)    |          |          |               |        |
|        |             |          |                |               | K-H    | 0 / 9215  | 0.69 (1)    |          |          |               |        |
| Q-R    | 0 / 0       | -18.5    | -18.5 0.20 (1) | 10.00         |        |           |             |          |          |               |        |
| R-S    | 0 / 0       | -18.5    | -18.5 0.20 (1) | 10.00         |        |           |             |          |          |               |        |
| S-P    | 0 / 0       | -18.5    | -18.5 0.20 (1) | 10.00         |        |           |             |          |          |               |        |
| P-T    | 0 / 9145    | -18.5    | -18.5 0.48 (1) | 10.00         |        |           |             |          |          |               |        |
| T-U    | 0 / 9145    | -18.5    | -18.5 0.48 (1) | 10.00         |        |           |             |          |          |               |        |
| U-O    | 0 / 9145    | -18.5    | -18.5 0.48 (1) | 10.00         |        |           |             |          |          |               |        |
| O-V    | 0 / 8430    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| V-W    | 0 / 8430    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| W-N    | 0 / 8430    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| N-X    | 0 / 8401    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| X-M    | 0 / 8401    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| M-Y    | 0 / 8401    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| Y-L    | 0 / 8401    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| L-Z    | 0 / 9044    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| Z-K    | 0 / 9044    | -18.5    | -18.5 0.52 (1) | 10.00         |        |           |             |          |          |               |        |
| K-AA   | 0 / 0       | -18.5    | -18.5 0.23 (1) | 10.00         |        |           |             |          |          |               |        |
| AA-J   | 0 / 0       | -18.5    | -18.5 0.23 (1) | 10.00         |        |           |             |          |          |               |        |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| K  | 18-10-4 | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| R  | 10-4    | -766 | -766 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| S  | 2-10-4  | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| T  | 4-10-4  | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| U  | 6-10-4  | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| V  | 8-10-4  | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| W  | 10-10-4 | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| X  | 12-10-4 | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 26.7 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 40.1 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 OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.76")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")  
ALLOWABLE DEFL.(TL)= L/360 (0.76")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.24/1.00 (B-C:1), BC=0.52/1.00 (K-L:1)  
WB=0.70/1.00 (B-P:1), SI=0.28/1.00 (N-O:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 (E) (INPUT = 0.90)  
JSI METAL= 0.69 (F) (INPUT = 1.00)



STRUCTURAL COMPONENT ONLY  
DWG # TR22080172 PG 1/2

CONTINUED ON PAGE 2

|                                 |            |          |     |                 |          |
|---------------------------------|------------|----------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
| 427546                          | T5         | 1        | 3   | GREENPARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.     |          |

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**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN  | Y    | X    |
|----|--------|--------|-----|------|------|------|
| B  | TMVW-p | MT20   | 4.0 | 10.0 | 1.00 | 5.00 |
| C  | TMWW-t | MT20   | 4.0 | 4.0  | 2.00 | 1.75 |
| D  | TMWW-t | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| E  | TTW+p  | MT20   | 4.0 | 6.0  | Edge |      |
| F  | TMWW-t | MT20   | 4.0 | 4.0  | 2.00 | 1.25 |
| G  | TMWW-t | MT20   | 4.0 | 4.0  | 2.00 | 1.75 |
| H  | TMVW-p | MT20   | 4.0 | 10.0 | 1.00 | 5.00 |
| J  | BMV1+p | MT20   | 3.0 | 8.0  |      |      |
| K  | BMWW-t | MT20   | 5.0 | 6.0  | 2.50 | 1.50 |
| L  | BMWW+t | MT20   | 3.0 | 8.0  |      |      |
| M  | BS-t   | MT20   | 5.0 | 6.0  |      |      |
| N  | BMWW+t | MT20   | 6.0 | 7.0  |      |      |
| O  | BMWW+t | MT20   | 3.0 | 8.0  |      |      |
| P  | BMWW-t | MT20   | 5.0 | 6.0  | 2.50 | 1.50 |
| Q  | BMV1+p | 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.

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| Y  | 14-10-4 | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Z  | 16-10-4 | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AA | 20-10-4 | -765 | -765 | ---  | BACK | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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

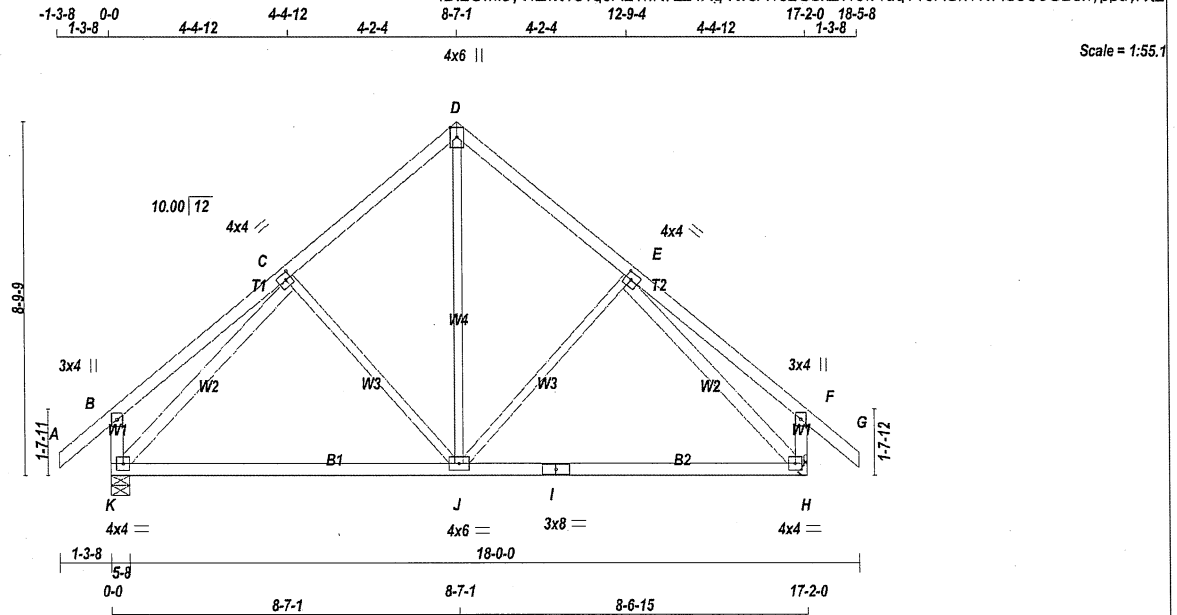


STRUCTURAL COMPONENT ONLY  
DWG # TR22080172 PG 2/2

|                    |                  |                |          |                              |          |
|--------------------|------------------|----------------|----------|------------------------------|----------|
| JOB NAME<br>427546 | TRUSS NAME<br>T6 | QUANTITY<br>11 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|------------------|----------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 11 X 83 = 911 lb [M][F]

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW+p   | MT20   | 4.0 | 6.0 | Edge |      |
| E  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| I  | BS-t    | MT20   | 3.0 | 8.0 |      |      |
| J  | BMWW-t  | MT20   | 4.0 | 6.0 |      |      |
| K  | BMVW1-t | MT20   | 4.0 | 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 | REQRD BRG  |
|----|-------------------------|---------------------------------|-----------|------------|
| K  | 1108                    | 0                               | 0         | 5-8        |
| H  | 1108                    | 0                               | 0         | MECHANICAL |

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

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX/MIN. SNOW | MAX/MIN. LIVE | MAX/MIN. PERM. LIVE | MAX/MIN. WIND | MAX/MIN. DEAD | MAX/MIN. SOIL |
|----|--------------------|---------------|---------------|---------------------|---------------|---------------|---------------|
| K  | 780                | 533 / 0       | 0 / 0         | 0 / 0               | 0 / 0         | 247 / 0       | 0 / 0         |
| H  | 780                | 533 / 0       | 0 / 0         | 0 / 0               | 0 / 0         | 247 / 0       | 0 / 0         |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC) | MAX. UNBRACED LENGTH | MEMB. | WEBS MAX. FACTORED FORCE (LBS) | MAX. FACTORED (LC) |
|-------|----------------------------------|---------------------------|--------------|----------------------|-------|--------------------------------|--------------------|
| FR-TO |                                  | FROM TO                   |              |                      | FR-TO |                                |                    |
| A-B   | 0 / 42                           | -95.2 -95.2               | 0.13 (1)     | 10.00                | C-J   | -231 / 0                       | 0.18 (1)           |
| B-C   | 0 / 31                           | -95.2 -95.2               | 0.29 (1)     | 10.00                | J-D   | 0 / 542                        | 0.12 (1)           |
| C-D   | -700 / 0                         | -95.2 -95.2               | 0.23 (1)     | 6.25                 | J-E   | -230 / 0                       | 0.18 (1)           |
| D-E   | -700 / 0                         | -95.2 -95.2               | 0.23 (1)     | 6.25                 | K-C   | -1013 / 0                      | 0.53 (1)           |
| E-F   | 0 / 31                           | -95.2 -95.2               | 0.29 (1)     | 10.00                | E-H   | -1013 / 0                      | 0.53 (1)           |
| F-G   | 0 / 42                           | -95.2 -95.2               | 0.13 (1)     | 10.00                |       |                                |                    |
| K-B   | -286 / 0                         | 0.0 0.0                   | 0.03 (1)     | 7.81                 |       |                                |                    |
| H-F   | -286 / 0                         | 0.0 0.0                   | 0.03 (1)     | 7.81                 |       |                                |                    |
| K-J   | 0 / 668                          | -18.5 -18.5               | 0.44 (4)     | 10.00                |       |                                |                    |
| J-I   | 0 / 668                          | -18.5 -18.5               | 0.44 (4)     | 10.00                |       |                                |                    |
| I-H   | 0 / 668                          | -18.5 -18.5               | 0.44 (4)     | 10.00                |       |                                |                    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                   |           |     |
|-------------------|-----------|-----|
| TOP CH.           | LL = 26.7 | PSF |
| DL = 6.0          | PSF       |     |
| BOT CH.           | LL = 0.0  | PSF |
| DL = 7.4          | PSF       |     |
| TOTAL LOAD = 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.57")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL)= L/360 (0.57")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.29/1.00 (B-C:1), BC=0.44/1.00 (J-K:4), WB=0.53/1.00 (C-K:1), SSI=0.15/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.85 (E) (INPUT = 0.90)  
JSI METAL= 0.34 (C) (INPUT = 1.00)

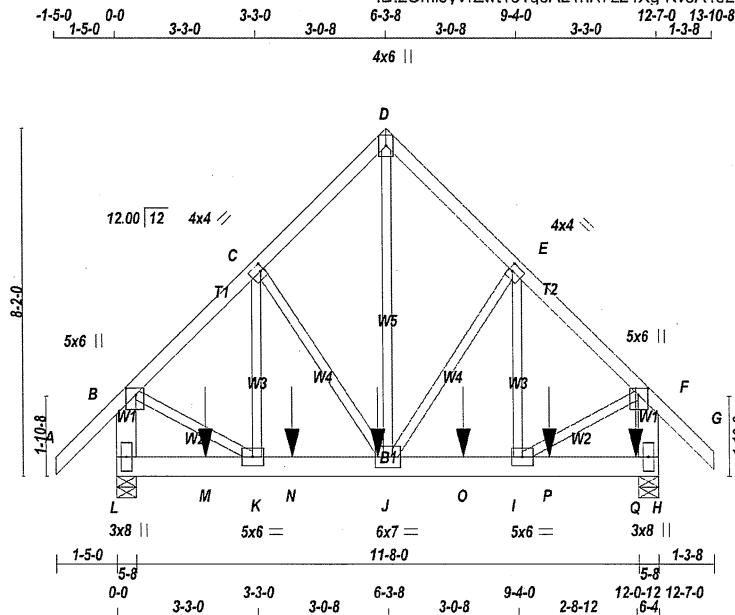


STRUCTURAL COMPONENT ONLY  
DWG # TR22080173

|                    |                  |               |          |                              |          |
|--------------------|------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427546 | TRUSS NAME<br>T7 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|------------------|---------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:51.9

TOTAL WEIGHT = 2 X 80 = 159 lb [M]

| 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  | 2x6 DRY No.2      | SPF    |      |        |        |
| H - F  | 2x6 DRY No.2      | SPF    |      |        |        |
| L - H  | 2x6 DRY No.2      | SPF    |      |        |        |

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |           |
| A-D 1 12                                 | TOP                  |           |
| D-G 1 12                                 | TOP                  |           |
| L-B 2 12                                 | TOP                  |           |
| H-F 2 12                                 | TOP                  |           |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| L-H 2 12                                 | TOP                  |           |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |           |
| 2x3 1 6                                  |                      |           |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| C  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| D  | TTW+p  | MT20   | 4.0 | 6.0 |      |      |
| E  | TMVW-t | MT20   | 4.0 | 4.0 | 2.00 | 1.00 |
| F  | TMVW+p | MT20   | 5.0 | 6.0 | 1.75 | 2.75 |
| H  | BMV1+p | MT20   | 3.0 | 8.0 |      |      |
| I  | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| J  | BMVW-t | MT20   | 6.0 | 7.0 |      |      |

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| L  | 3708                    | 0                               | 3708      | 0        |
| H  | 4541                    | 0                               | 4541      | 0        |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX /MIN. COMPONENT REACTIONS | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|-------------------------------|-------|-----------|-------|---------|-------|
| L  | 2604               | 1811 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 793 / 0 | 0 / 0 |
| H  | 3189               | 2216 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 974 / 0 | 0 / 0 |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13 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) | LC1 MAX  | MAX   | UNBRAC | WEBS     | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX |
|--------|-----------|---------------------------|---------------------------|----------|-------|--------|----------|----------|---------------------------|-----|
| FR-TO  |           |                           |                           |          |       |        | FR-TO    |          |                           |     |
| A-B    | 0 / 51    | -95.2                     | -95.2                     | 0.09 (1) | 10.00 | J-D    | 0 / 3206 | 0.40 (1) |                           |     |
| B-C    | -3049 / 0 | -95.2                     | -95.2                     | 0.11 (1) | 5.21  | J-E    | -950 / 0 | 0.25 (1) |                           |     |
| C-D    | -2456 / 0 | -95.2                     | -95.2                     | 0.08 (1) | 5.69  | I-E    | 0 / 972  | 0.12 (1) |                           |     |
| D-E    | -2456 / 0 | -95.2                     | -95.2                     | 0.08 (1) | 5.69  | C-J    | -811 / 0 | 0.22 (1) |                           |     |
| E-F    | -3157 / 0 | -95.2                     | -95.2                     | 0.11 (1) | 5.13  | K-C    | 0 / 779  | 0.10 (1) |                           |     |
| F-G    | 0 / 47    | -95.2                     | -95.2                     | 0.07 (1) | 10.00 | B-K    | 0 / 2370 | 0.29 (1) |                           |     |
| L-B    | -3405 / 0 | 0.0                       | 0.0                       | 0.13 (1) | 7.55  | I-F    | 0 / 2453 | 0.30 (1) |                           |     |
| H-F    | -3502 / 0 | 0.0                       | 0.0                       | 0.14 (1) | 7.48  |        |          |          |                           |     |
| L-M    | 0 / 0     | -18.5                     | -18.5                     | 0.22 (1) | 10.00 |        |          |          |                           |     |
| M-K    | 0 / 0     | -18.5                     | -18.5                     | 0.22 (1) | 10.00 |        |          |          |                           |     |
| K-N    | 0 / 2167  | -18.5                     | -18.5                     | 0.29 (1) | 10.00 |        |          |          |                           |     |
| N-J    | 0 / 2167  | -18.5                     | -18.5                     | 0.29 (1) | 10.00 |        |          |          |                           |     |
| J-O    | 0 / 2242  | -18.5                     | -18.5                     | 0.33 (1) | 10.00 |        |          |          |                           |     |
| O-I    | 0 / 2242  | -18.5                     | -18.5                     | 0.33 (1) | 10.00 |        |          |          |                           |     |
| I-P    | 0 / 0     | -18.5                     | -18.5                     | 0.20 (1) | 10.00 |        |          |          |                           |     |
| P-Q    | 0 / 0     | -18.5                     | -18.5                     | 0.20 (1) | 10.00 |        |          |          |                           |     |
| Q-H    | 0 / 0     | -18.5                     | -18.5                     | 0.20 (1) | 10.00 |        |          |          |                           |     |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1 MAX- | MAX+ | FACE | DIR. | TYPE | HEEL  | CONN. |
|----|---------|----------|------|------|------|------|-------|-------|
| J  | 6-0-12  | -765     | -765 | ---  | TOP  | VERT | TOTAL | C1    |
| M  | 2-0-12  | -765     | -765 | ---  | TOP  | VERT | TOTAL | C1    |
| N  | 4-0-12  | -765     | -765 | ---  | TOP  | VERT | TOTAL | C1    |
| O  | 8-0-12  | -765     | -765 | ---  | TOP  | VERT | TOTAL | C1    |
| P  | 10-0-12 | -765     | -765 | ---  | TOP  | VERT | TOTAL | C1    |
| Q  | 12-0-12 | -768     | -768 | ---  | TOP  | VERT | TOTAL | C1    |

##### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|                       |               |
|-----------------------|---------------|
| TOP CH.               | LL = 26.7 PSF |
| DL = 6.0 PSF          |               |
| BOT CH.               | LL = 0.0 PSF  |
| DL = 7.4 PSF          |               |
| TOTAL LOAD = 40.1 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 CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.42")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL)= L/360 (0.42")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.14/1.00 (F-H:1), BC=0.33/1.00 (I-J:1), WB=0.40/1.00 (D-J:1), SSI=0.40/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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     |
| MT20  | 650       | 371   | 1747    |
|       |           | 788   | 1987    |
|       |           | 1873  |         |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (D) (INPUT = 0.90 )  
JSI METAL= 0.47 (B) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080174

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427546   | T7         | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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| PLATES (table is in inches) |        |        |     |     |   |   |
|-----------------------------|--------|--------|-----|-----|---|---|
| JT                          | TYPE   | PLATES | W   | LEN | Y | X |
| K                           | BMWW-t | MT20   | 5.0 | 6.0 |   |   |
| L                           | BMV1+p | MT20   | 3.0 | 8.0 |   |   |

NOTES- (1)

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

LICENSED PROFESSIONAL ENGINEER

8/02/22

C. M. HEYENS

100505065

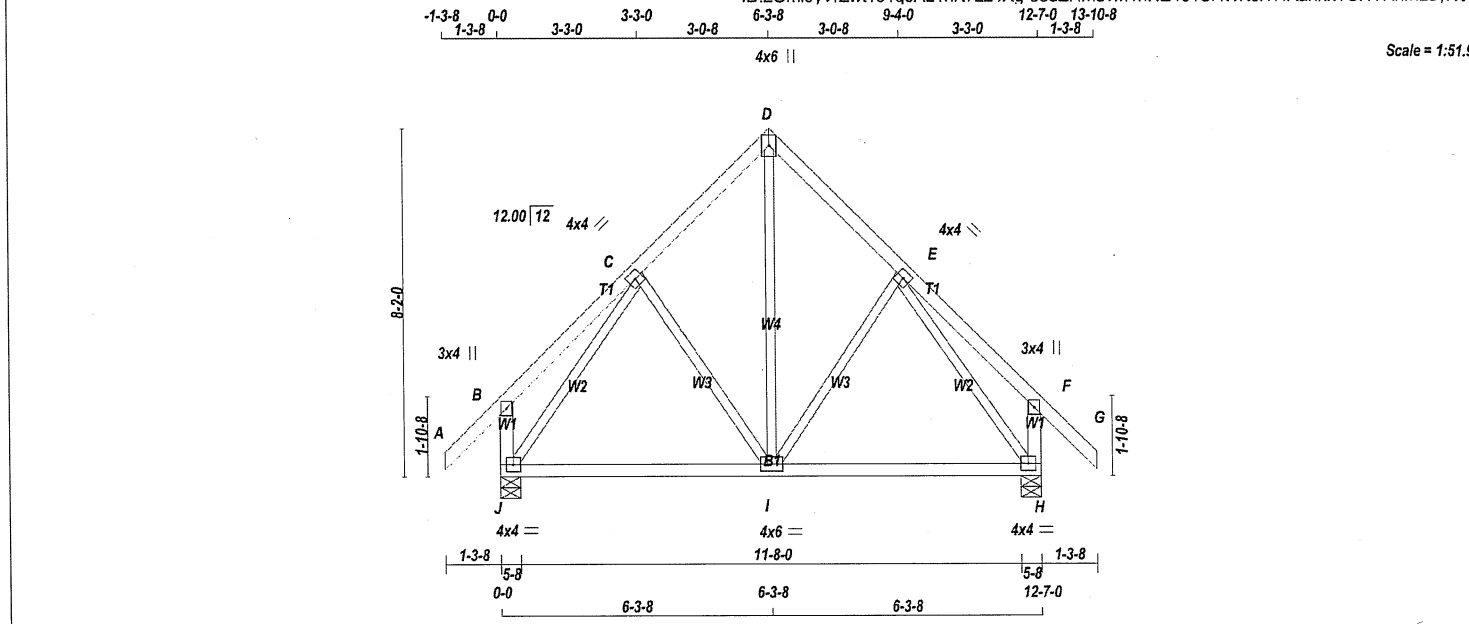
*C. Heyens*

PROVINCE OF ONTARIO

STRUCTURAL COMPONENT ONLY

DWG # TR22080174 PG 2/2





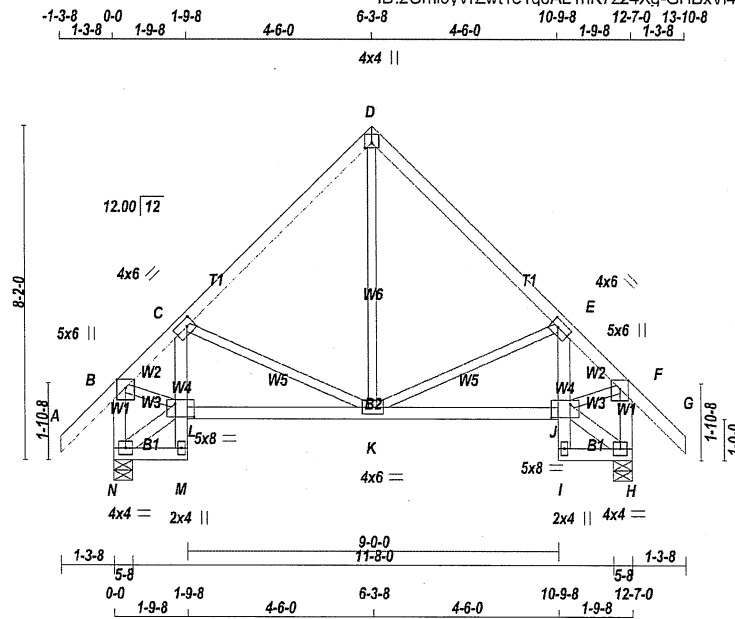
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|---------------------------------------------------|--|--|--|--|--------|--|--------|--|------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------|--|--|--|--|--|--|--|--|--|-----|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE |  |  |  |  | LUMBER |  | DESCR. |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b> |  |  |  |  |  |  |  |  |  | <b>DESIGN CRITERIA</b> |  |  |  |  |  |  |  |  |  | [M] |
|                                                   |  |  |  |  |        |  |        |  | <b>BEARINGS</b>                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
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|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |
|                                                   |  |  |  |  |        |  |        |  |                                                                                                      |  |  |  |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |     |

STRUCTURAL COMPONENT ONLY  
DWG # TR22080175

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

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427546</b>       | TRUSS NAME<br><b>T8S</b> | QUANTITY<br><b>2</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. Tue Aug 2 11:33:17 2022 Page 1  
ID:2Om0yVrZwt1e1q0AL1nK7z24Xg-GHBxVi4X7LpEsEAGyu1Zcv0Rq 8Fg39Wn5RvuVyrvt0  
Scale = 1:54.1



TOTAL WEIGHT = 2 X 68 = 137 lb  
[M][F]

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  | TMVW+p   | MT20   | 5.0 | 6.0 | Edge | 2.50 |
| C  | TMVW-t   | MT20   | 4.0 | 6.0 | 2.00 | 2.25 |
| D  | TTW+p    | MT20   | 4.0 | 4.0 | 1.50 | 2.00 |
| E  | TMVW-t   | MT20   | 4.0 | 6.0 | 2.00 | 2.25 |
| F  | TMVW+p   | MT20   | 5.0 | 6.0 | Edge | 2.50 |
| H  | BMVW1-t  | MT20   | 4.0 | 4.0 |      |      |
| I  | BMVW+w   | MT20   | 2.0 | 4.0 |      |      |
| J  | BMVWVW-t | MT20   | 5.0 | 8.0 | 3.75 | 5.50 |
| K  | BMVWVW-t | MT20   | 4.0 | 6.0 |      |      |
| L  | BMVWVW-t | MT20   | 5.0 | 8.0 | 3.75 | 5.50 |
| M  | BMVW+w   | MT20   | 2.0 | 4.0 |      |      |
| N  | BMVW1-t  | MT20   | 4.0 | 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 |      | FACTORED |          | MAXIMUM FACTORED |          | INPUT |       | REQRD |       |
|----------|------|----------|----------|------------------|----------|-------|-------|-------|-------|
| JT       | VERT | GROSS    | REACTION | GROSS            | REACTION | BRG   | IN-SX | BRG   | IN-SX |
| N        | 848  | 0        | 848      | 0                | 0        | 5-8   | 5-8   | 5-8   | 5-8   |
| H        | 848  | 0        | 848      | 0                | 0        | 5-8   | 5-8   | 5-8   | 5-8   |

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX /MIN. | COMPONENT REACTIONS | WIND  | DEAD    | SOIL  |
|----|-----------|-----------|---------------------|-------|---------|-------|
| N  | 596       | 411 / 0   | 0 / 0               | 0 / 0 | 185 / 0 | 0 / 0 |
| H  | 596       | 411 / 0   | 0 / 0               | 0 / 0 | 185 / 0 | 0 / 0 |

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

#### BRACING

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED |       | MAX. FACTORED |       | WEBS  |             | FACTORED |      | MAX. FACTORED |     |
|--------|-------------|----------|-------|---------------|-------|-------|-------------|----------|------|---------------|-----|
| MEMB.  | FORCE (LBS) | VERT.    | LOAD  | LC1           | MAX   | MEMB. | FORCE (LBS) | VERT.    | LOAD | LC1           | MAX |
| FR-TO  |             |          |       |               |       | FR-TO |             |          |      |               |     |
| A-B    | 0 / 47      | -95.2    | -95.2 | 0.13 (1)      | 10.00 | M-L   | 0 / 17      | 0.03 (1) |      |               |     |
| B-C    | -725 / 0    | -95.2    | -95.2 | 0.19 (1)      | 6.25  | L-C   | -69 / 16    | 0.02 (1) |      |               |     |
| C-D    | -484 / 0    | -95.2    | -95.2 | 0.25 (1)      | 6.25  | I-J   | 0 / 17      | 0.03 (1) |      |               |     |
| D-E    | -484 / 0    | -95.2    | -95.2 | 0.25 (1)      | 6.25  | J-E   | -69 / 16    | 0.02 (1) |      |               |     |
| E-F    | -725 / 0    | -95.2    | -95.2 | 0.19 (1)      | 6.25  | K-D   | 0 / 280     | 0.06 (1) |      |               |     |
| F-G    | 0 / 47      | -95.2    | -95.2 | 0.13 (1)      | 10.00 | K-E   | -246 / 0    | 0.11 (1) |      |               |     |
| N-B    | -823 / 0    | 0.0      | 0.0   | 0.09 (1)      | 7.81  | C-K   | -246 / 0    | 0.11 (1) |      |               |     |
| H-F    | -823 / 0    | 0.0      | 0.0   | 0.09 (1)      | 7.81  | N-L   | -18 / 0     | 0.00 (1) |      |               |     |
| N-M    | 0 / 15      | -18.5    | -18.5 | 0.02 (4)      | 10.00 | B-L   | 0 / 552     | 0.12 (1) |      |               |     |
| L-K    | 0 / 546     | -18.5    | -18.5 | 0.16 (4)      | 10.00 | J-H   | -18 / 0     | 0.00 (1) |      |               |     |
| K-J    | 0 / 546     | -18.5    | -18.5 | 0.16 (4)      | 10.00 | J-F   | 0 / 552     | 0.12 (1) |      |               |     |
| I-H    | 0 / 15      | -18.5    | -18.5 | 0.02 (4)      | 10.00 |       |             |          |      |               |     |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.42")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.42")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.25/1.00 (D-E:1), BC=0.16/1.00 (K-L:4), WB=0.12/1.00 (F-J:1), SSI=0.14/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.85 (D) (INPUT = 0.90)

JSI METAL= 0.26 (B) (INPUT = 1.00)

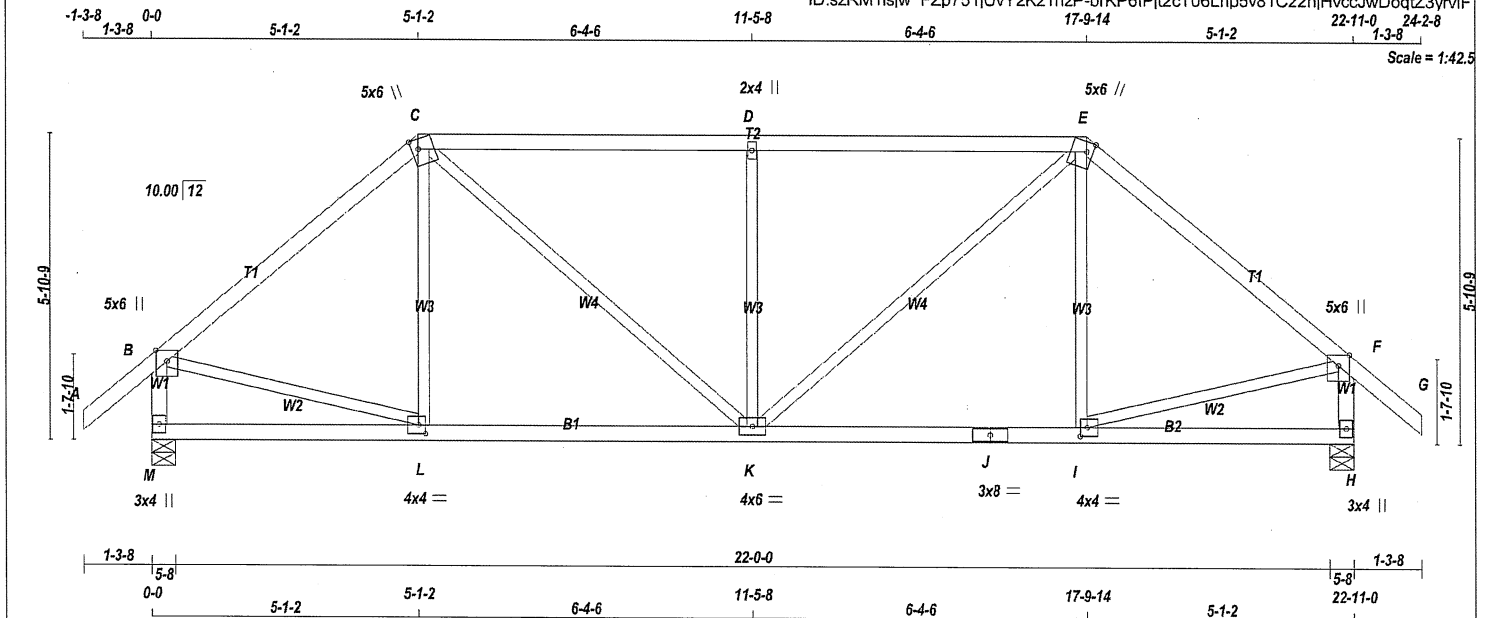


STRUCTURAL COMPONENT ONLY  
DWG # TR22080176

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | T9         | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.530 S Feb 23 2022 MiTek Industries, Inc. Tue Aug 2 11:44:46 2022 Page 1  
ID:szRM1Isjw FZp751jUvY2Kz1nzP-brKP6IPt2cT06Lhp5v81C22hjHvccJwDqqtZ3YrvfF



TOTAL WEIGHT = 97 lb [M]

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

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

| PLATES (table is in inches) |        |        |     |     |           |
|-----------------------------|--------|--------|-----|-----|-----------|
| JT                          | TYPE   | PLATES | W   | LEN | Y X       |
| B                           | TMVW+p | MT20   | 5.0 | 6.0 | Edge      |
| C                           | TTWW+m | MT20   | 5.0 | 6.0 | 2.25 1.50 |
| D                           | TMW+w  | MT20   | 2.0 | 4.0 |           |
| E                           | TTWW+m | MT20   | 5.0 | 6.0 | 2.25 1.50 |
| F                           | TMVW+p | MT20   | 5.0 | 6.0 | Edge      |
| H                           | BMV1+p | MT20   | 3.0 | 4.0 |           |
| I                           | BMVW-t | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| J                           | BS-t   | MT20   | 3.0 | 8.0 |           |
| K                           | BMVW-t | MT20   | 4.0 | 6.0 |           |
| L                           | BMVW-t | MT20   | 4.0 | 4.0 | 2.00 1.50 |
| M                           | BMV1+p | MT20   | 3.0 | 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 |      | FACTORED |      | MAXIMUM FACTORED |        | INPUT |     | REQRD |     |
|----------|------|----------|------|------------------|--------|-------|-----|-------|-----|
| JT       | VERT | HORZ     | DOWN | HORZ             | UPLIFT | IN-SX | BRG | IN-SX | BRG |
| M        | 1435 | 0        | 1435 | 0                | 0      | 5-8   | 5-8 | 5-8   | 5-8 |
| H        | 1435 | 0        | 1435 | 0                | 0      | 5-8   | 5-8 | 5-8   | 5-8 |

| UNFACTORED REACTIONS |          | 1ST LCASE |       | MAX./MIN. COMPONENT REACTIONS |       |
|----------------------|----------|-----------|-------|-------------------------------|-------|
| JT                   | COMBINED | SNOW      | LIVE  | PERM.LIVE                     | WIND  |
| M                    | 1010     | 687 / 0   | 0 / 0 | 0 / 0                         | 0 / 0 |
| H                    | 1010     | 687 / 0   | 0 / 0 | 0 / 0                         | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.04 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

| LOADING |                           | TOTAL LOAD CASES: (4) |                           |
|---------|---------------------------|-----------------------|---------------------------|
| CHORDS  |                           | WEBS                  |                           |
| MEMB.   | MAX. FACTORED FORCE (LBS) | MEMB.                 | MAX. FACTORED FORCE (LBS) |
| FR-TO   |                           | FR-TO                 |                           |
| A-B     | 0 / 42                    | L-C                   | -116 / 53                 |
| B-C     | -1228 / 0                 | C-K                   | 0 / 650                   |
| C-D     | -1428 / 0                 | K-D                   | -743 / 0                  |
| D-E     | -1428 / 0                 | E-K                   | 0 / 650                   |
| E-F     | -1228 / 0                 | I-E                   | -116 / 53                 |
| F-G     | 0 / 42                    | B-L                   | 0 / 970                   |
| M-B     | -1398 / 0                 | I-F                   | 0 / 970                   |
| H-F     | -1398 / 0                 |                       |                           |
| M-L     | 0 / 0                     |                       |                           |
| L-K     | 0 / 939                   |                       |                           |
| K-J     | 0 / 939                   |                       |                           |
| J-I     | 0 / 939                   |                       |                           |
| I-H     | 0 / 0                     |                       |                           |

### DESIGN CRITERIA

**SPECIFIED LOADS:**  
TOP CH. LL = 26.7 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 40.1 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 CBC 2018, ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.76")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.76")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.83/1.00 (C-D:1), BC=0.26/1.00 (K-L:1), WB=0.41/1.00 (D-K:1), SSI=0.32/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

| NAIL VALUES |           |          |           |
|-------------|-----------|----------|-----------|
| PLATE       | GRIP(DRY) | SHEAR    | SECTION   |
| (PSI)       | (PLI)     | (PLI)    | (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= 0.82 (I) (INPUT = 0.90 )  
JSI METAL= 0.49 (B) (INPUT = 1.00 )

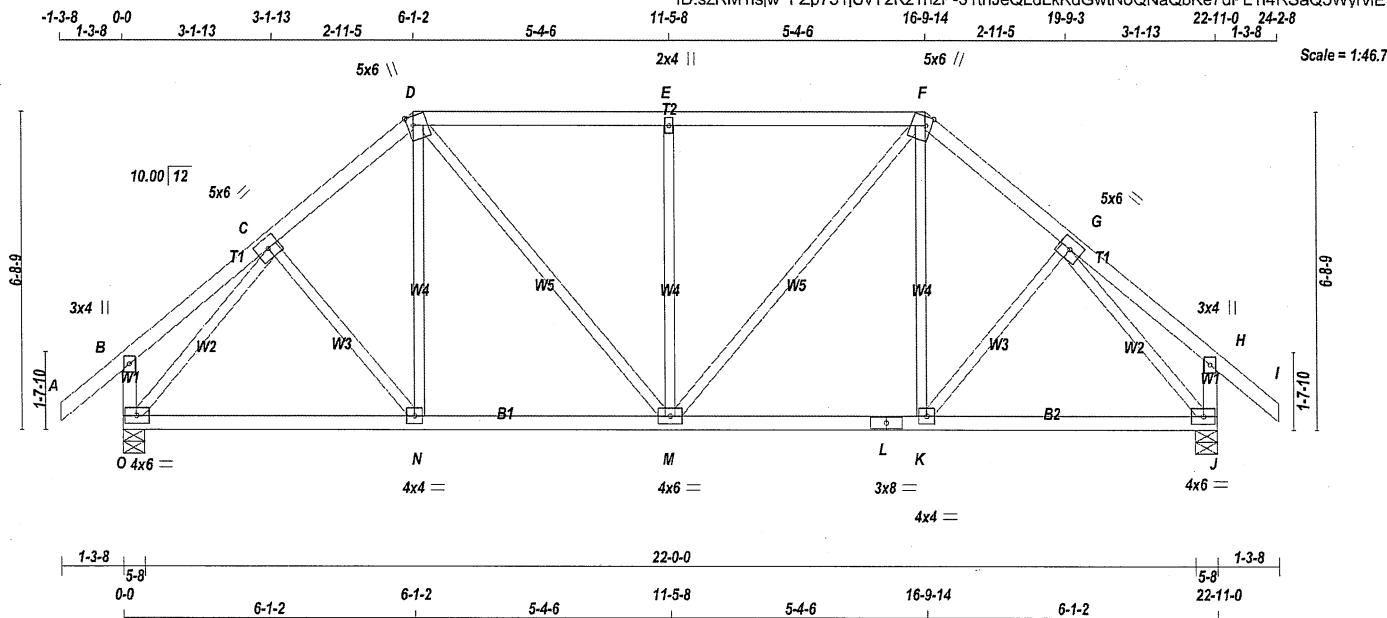


STRUCTURAL COMPONENT ONLY  
DWG # TR22080180

|                           |                          |                      |                 |                                     |          |
|---------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427556</b> | TRUSS NAME<br><b>T10</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: szRM1Isjw FZp751jUvY2Kz1nzP-31tnJeQLdKdGwtNoQNaQbKe7dPL1I4RSaQ5WyrviE



TOTAL WEIGHT = 106 lb  
(M/F)

| 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 - I  | 2x4               | DRY    | No.2 | SPF    |        |
| O - B  | 2x4               | DRY    | No.2 | SPF    |        |
| J - H  | 2x4               | DRY    | No.2 | SPF    |        |
| O - L  | 2x4               | DRY    | No.2 | SPF    |        |
| L - J  | 2x4               | DRY    | No.2 | SPF    |        |

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| D  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E  | TMWW-w  | MT20   | 2.0 | 4.0 |      |      |
| F  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G  | TMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| H  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW1-t | MT20   | 4.0 | 6.0 |      |      |
| K  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| L  | BS-t    | MT20   | 3.0 | 8.0 |      |      |
| M  | BMVWW-t | MT20   | 4.0 | 6.0 |      |      |
| N  | BMVW-t  | MT20   | 4.0 | 4.0 |      |      |
| O  | BMVW1-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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQD |
|----|-------------------------|---------------------------------|-------|------|
|    | VERT                    | HORZ                            | DOWN  | HORZ |
| JT | 1435                    | 0                               | 1435  | 0    |
| O  | 1435                    | 0                               | 1435  | 0    |
| J  | 1435                    | 0                               | 1435  | 0    |

##### UNFACTORED REACTIONS

|    | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |       |           |       |         |       |  |
|----|-----------|------------------------------|-------|-----------|-------|---------|-------|--|
| JT | COMBINED  | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| O  | 1010      | 687 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 324 / 0 | 0 / 0 |  |
| J  | 1010      | 687 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 324 / 0 | 0 / 0 |  |

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

##### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.36 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |          |
| A-B    | 0 / 42                    | -95.2 -95.2               | 0.13 (1)                  | 10.00 | C-N                       | 0 / 46                    | 0.02 (4) |
| B-C    | 0 / 20                    | -95.2 -95.2               | 0.13 (1)                  | 10.00 | N-D                       | 0 / 106                   | 0.04 (4) |
| C-D    | -1221 / 0                 | -95.2 -95.2               | 0.11 (1)                  | 5.69  | D-M                       | 0 / 460                   | 0.10 (1) |
| D-E    | -1217 / 0                 | -95.2 -95.2               | 0.37 (1)                  | 5.36  | M-E                       | -624 / 0                  | 0.47 (1) |
| E-F    | -1217 / 0                 | -95.2 -95.2               | 0.37 (1)                  | 5.36  | M-F                       | 0 / 460                   | 0.10 (1) |
| F-G    | -1221 / 0                 | -95.2 -95.2               | 0.11 (1)                  | 5.69  | K-F                       | 0 / 106                   | 0.04 (4) |
| G-H    | 0 / 20                    | -95.2 -95.2               | 0.13 (1)                  | 10.00 | K-G                       | 0 / 46                    | 0.02 (4) |
| H-I    | 0 / 42                    | -95.2 -95.2               | 0.13 (1)                  | 10.00 | O-C                       | -1457 / 0                 | 0.55 (1) |
| O-B    | -245 / 0                  | 0.0 0.0                   | 0.03 (1)                  | 7.81  | G-J                       | -1457 / 0                 | 0.55 (1) |
| J-H    | -245 / 0                  | 0.0 0.0                   | 0.03 (1)                  | 7.81  |                           |                           |          |
| O-N    | 0 / 904                   | -18.5 -18.5               | 0.23 (1)                  | 10.00 |                           |                           |          |
| N-M    | 0 / 922                   | -18.5 -18.5               | 0.24 (4)                  | 10.00 |                           |                           |          |
| M-L    | 0 / 922                   | -18.5 -18.5               | 0.24 (4)                  | 10.00 |                           |                           |          |
| L-K    | 0 / 922                   | -18.5 -18.5               | 0.24 (4)                  | 10.00 |                           |                           |          |
| K-J    | 0 / 904                   | -18.5 -18.5               | 0.23 (1)                  | 10.00 |                           |                           |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |               |
|------------|---------------|
| TOP CH.    | LL = 26.7 PSF |
|            | DL = 6.0 PSF  |
| BOT CH.    | LL = 0.0 PSF  |
|            | DL = 7.4 PSF  |
| TOTAL LOAD | = 40.1 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 CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.76")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.76")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.37/1.00 (D-E:1), BC=0.24/1.00 (M-N:4), WB=0.55/1.00 (C-O:1), SI=0.25/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| 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= 0.84 (J) (INPUT = 0.90)  
JSI METAL= 0.33 (L) (INPUT = 1.00)



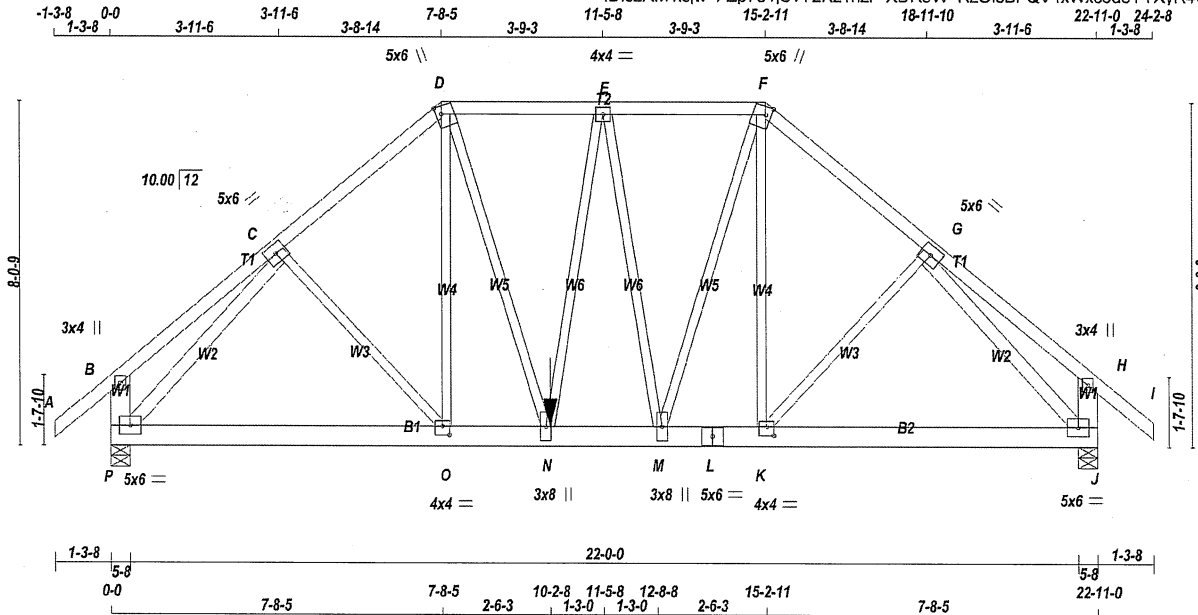
STRUCTURAL COMPONENT ONLY  
DWG # TR22080181

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | T11        | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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Scale = 1:51.8

TOTAL WEIGHT = 2 X 139 = 277 lb [M]

| 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 - I             | 2x4    | DRY  | No.2   | SPF    |
| P - B             | 2x6    | DRY  | No.2   | SPF    |
| J - H             | 2x6    | DRY  | No.2   | SPF    |
| P - L             | 2x6    | DRY  | No.2   | SPF    |
| L - J             | 2x6    | DRY  | No.2   | SPF    |
| ALL WEBS          | 2x3    | DRY  | No.2   | SPF    |
| EXCEPT            |        |      |        |        |
| P - C             | 2x4    | DRY  | No.2   | SPF    |
| G - J             | 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-D 1                                    | 12                   | TOP         |
| D-F 1                                    | 12                   | TOP         |
| F-I 1                                    | 12                   | TOP         |
| P-B 2                                    | 12                   | TOP         |
| J-H 2                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| P-L 2                                    | 12                   | SIDE(183.1) |
| L-J 2                                    | 12                   | TOP         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| N-E 1                                    | 6                    | SIDE(553.2) |
| 2x3 1                                    | 6                    |             |
| 2x4 1                                    | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| BEARINGS |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----------|------|-------------------------|---------------------------------|-----------|----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT   |
| P        | 3004 | 0                       | 3004                            | 0         | 5-8      |
| J        | 2687 | 0                       | 2687                            | 0         | 5-8      |

#### UNFACTORED REACTIONS

| 1ST LOASE | MAX/MIN. COMPONENT REACTIONS |          |       |           |       |         |       |
|-----------|------------------------------|----------|-------|-----------|-------|---------|-------|
| JT        | COMBINED                     | SNOW     | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| P         | 2112                         | 1457 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 655 / 0 | 0 / 0 |
| J         | 1890                         | 1301 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 588 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.02 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |          | WEBS        |       | MAX. FACTORED |               |
|--------|-------------|------------------|----------|-------------|-------|---------------|---------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX  | MAX. UNBRAC | MEMB. | FORCE (LBS)   | MAX. FACTORED |
| FR-TO  |             | FROM TO          |          | LENGTH      | FR-TO |               |               |
| A-B    | 0 / 42      | -95.2 -95.2      | 0.07 (1) | 10.00       | C-O   | 0 / 217       | 0.03 (1)      |
| B-C    | 0 / 25      | -95.2 -95.2      | 0.11 (1) | 10.00       | O-D   | 0 / 164       | 0.03 (4)      |
| C-D    | -3248 / 0   | -95.2 -95.2      | 0.17 (1) | 5.02        | K-F   | 0 / 93        | 0.02 (4)      |
| D-E    | -2989 / 0   | -95.2 -95.2      | 0.13 (1) | 5.21        | K-G   | 0 / 149       | 0.02 (1)      |
| E-F    | -2628 / 0   | -95.2 -95.2      | 0.12 (1) | 5.49        | P-C   | -3544 / 0     | 0.69 (1)      |
| F-G    | -2825 / 0   | -95.2 -95.2      | 0.16 (1) | 5.31        | G-J   | -3119 / 0     | 0.60 (1)      |
| G-H    | 0 / 26      | -95.2 -95.2      | 0.12 (1) | 10.00       | N-E   | 0 / 904       | 0.11 (1)      |
| H-I    | 0 / 42      | -95.2 -95.2      | 0.07 (1) | 10.00       | E-M   | -1300 / 0     | 0.80 (1)      |
| P-B    | -274 / 0    | 0.0 0.0          | 0.01 (1) | 7.81        | D-N   | 0 / 1677      | 0.21 (1)      |
| J-H    | -273 / 0    | 0.0 0.0          | 0.01 (1) | 7.81        | M-F   | 0 / 1568      | 0.19 (1)      |
| P-O    | 0 / 2323    | -18.5 -18.5      | 0.20 (1) | 10.00       |       |               |               |
| O-N    | 0 / 2471    | -18.5 -18.5      | 0.29 (1) | 10.00       |       |               |               |
| N-M    | 0 / 2830    | -18.5 -18.5      | 0.32 (1) | 10.00       |       |               |               |
| M-L    | 0 / 2145    | -18.5 -18.5      | 0.18 (1) | 10.00       |       |               |               |
| L-K    | 0 / 2145    | -18.5 -18.5      | 0.18 (1) | 10.00       |       |               |               |
| K-J    | 0 / 2045    | -18.5 -18.5      | 0.17 (1) | 10.00       |       |               |               |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|------|------|-------|------|-------|
| N  | 10-2-8 | -1981 | -1981 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.76")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL) = L/360 (0.76")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.17/1.00 (C-D:1), BC=0.32/1.00 (M-N:1), WB=0.80/1.00 (E-M:1), SSI=0.09/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

| NAIL VALUES |       | PLATE GRIP(DRY) |       | SHEAR |       | SECTION |       |
|-------------|-------|-----------------|-------|-------|-------|---------|-------|
| (PSI)       | (PLI) | (PSI)           | (PLI) | (PSI) | (PLI) | (PSI)   | (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= 0.76 (F) (INPUT = 0.90 )  
JSI METAL= 0.40 (G) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080182 PG 1/2

CONTINUED ON PAGE 2

|                                 |            |          |     |                 |          |
|---------------------------------|------------|----------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
| 427556                          | T11        | 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    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| D  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| E  | TMWW-t  | MT20   | 4.0 | 4.0 |      |      |
| F  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| G  | TMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| H  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| J  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |
| K  | BMWW-t  | MT20   | 4.0 | 4.0 | 2.50 | 2.00 |
| L  | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| M  | BMWW+t  | MT20   | 3.0 | 8.0 |      |      |
| N  | BMWW+t  | MT20   | 3.0 | 8.0 |      |      |
| O  | BMWW-t  | MT20   | 4.0 | 4.0 | 2.50 | 2.00 |
| P  | BMVW1-t | MT20   | 5.0 | 6.0 |      |      |

**NOTES- (1)**

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



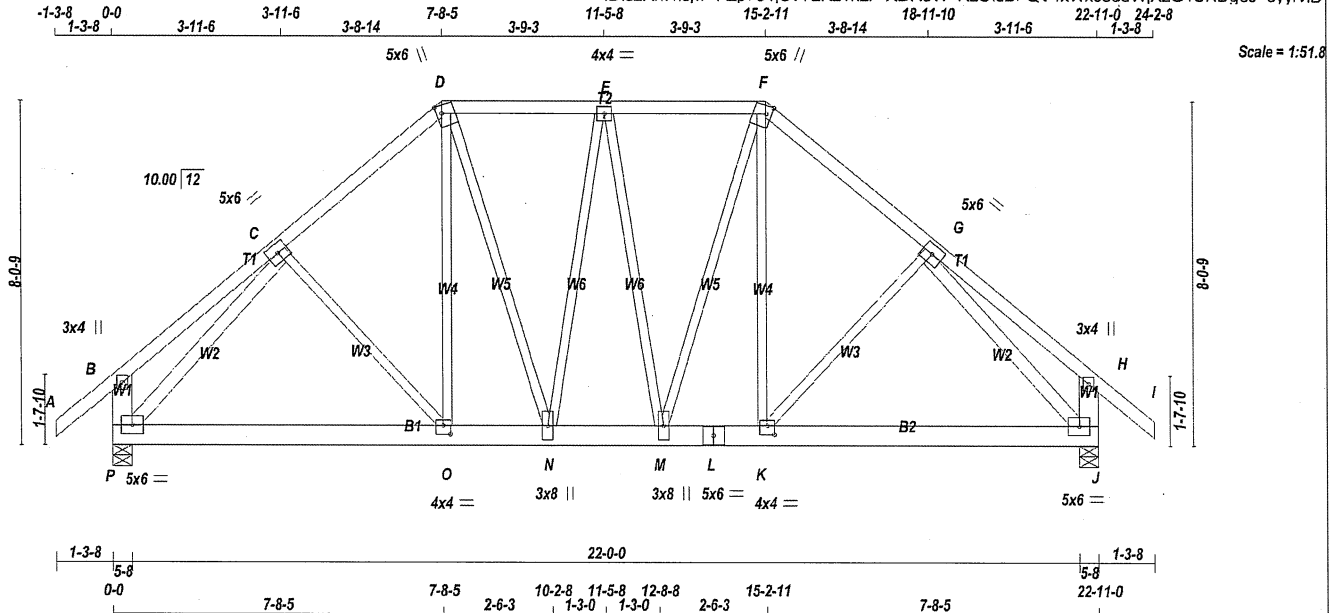
STRUCTURAL COMPONENT ONLY  
DWG # TR22080182 PG 2/2

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | T11Z       | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 139 lb

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

DRY: SEASONED LUMBER.

| PLATES (table is in inches) | JT      | TYPE | PLATES | W   | LEN  | Y    | X |
|-----------------------------|---------|------|--------|-----|------|------|---|
| B                           | TMV+p   | MT20 | 3.0    | 4.0 |      |      |   |
| C                           | TMVW-t  | MT20 | 5.0    | 6.0 |      |      |   |
| D                           | TTWW+m  | MT20 | 5.0    | 6.0 | 2.25 | 1.50 |   |
| E                           | TMVW-t  | MT20 | 4.0    | 4.0 |      |      |   |
| F                           | TTWW+m  | MT20 | 5.0    | 6.0 | 2.25 | 1.50 |   |
| G                           | TMVW-t  | MT20 | 5.0    | 6.0 |      |      |   |
| H                           | TMV+p   | MT20 | 3.0    | 4.0 |      |      |   |
| J                           | BMVW1-t | MT20 | 5.0    | 6.0 |      |      |   |
| K                           | BMVW-t  | MT20 | 4.0    | 4.0 | 2.50 | 2.00 |   |
| L                           | BS-t    | MT20 | 5.0    | 6.0 |      |      |   |
| M                           | BMVW-t  | MT20 | 3.0    | 8.0 |      |      |   |
| N                           | BMVW-t  | MT20 | 3.0    | 8.0 |      |      |   |
| O                           | BMVW-t  | MT20 | 4.0    | 4.0 | 2.50 | 2.00 |   |
| P                           | BMVW1-t | MT20 | 5.0    | 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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQRD |
|----------|-------------------------|---------------------------------|-------|-------|
| JT       | VERT                    | HORZ                            | DOWN  | HORZ  |
| P        | 1435                    | 0                               | 1435  | 0     |
| J        | 1435                    | 0                               | 1435  | 0     |

| UNFACTORED REACTIONS | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |
|----------------------|-----------|------------------------------|-----------|------------------------------|
| JT                   | COMBINED  | SNOW                         | LIVE      | PERM.LIVE                    |
| P                    | 1010      | 687 / 0                      | 0 / 0     | 0 / 0                        |
| J                    | 1010      | 687 / 0                      | 0 / 0     | 0 / 0                        |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.51 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) | LC1      | MAX   | MAX. UNBRAC LENGTH | MEMB.     | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
|--------|-----------|---------------------------|---------------------------|----------|-------|--------------------|-----------|---------------------------|------------------------|
| FR-TO  |           |                           |                           |          |       |                    | FR-TO     |                           |                        |
| A-B    | 0 / 42    | -95.2                     | -95.2                     | 0.14 (1) | 10.00 | C-O                | -116 / 10 | 0.07 (1)                  |                        |
| B-C    | 0 / 27    | -95.2                     | -95.2                     | 0.25 (1) | 10.00 | O-D                | 0 / 233   | 0.06 (4)                  |                        |
| C-D    | -1175 / 0 | -95.2                     | -95.2                     | 0.28 (1) | 5.51  | K-F                | 0 / 233   | 0.06 (4)                  |                        |
| D-E    | -952 / 0  | -95.2                     | -95.2                     | 0.26 (1) | 5.99  | K-G                | -116 / 10 | 0.07 (1)                  |                        |
| E-F    | -955 / 0  | -95.2                     | -95.2                     | 0.26 (1) | 5.99  | P-C                | -1460 / 0 | 0.57 (1)                  |                        |
| F-G    | -1175 / 0 | -95.2                     | -95.2                     | 0.28 (1) | 5.51  | G-J                | -1460 / 0 | 0.57 (1)                  |                        |
| G-H    | 0 / 27    | -95.2                     | -95.2                     | 0.25 (1) | 10.00 | N-E                | -215 / 0  | 0.26 (1)                  |                        |
| H-I    | 0 / 42    | -95.2                     | -95.2                     | 0.14 (1) | 10.00 | E-M                | -223 / 0  | 0.28 (1)                  |                        |
| P-B    | -271 / 0  | 0.0                       | 0.0                       | 0.02 (1) | 7.81  | D-N                | 0 / 226   | 0.06 (1)                  |                        |
| J-H    | -271 / 0  | 0.0                       | 0.0                       | 0.02 (1) | 7.81  | M-F                | 0 / 236   | 0.06 (1)                  |                        |
| P-O    | 0 / 957   | -18.5                     | -18.5                     | 0.20 (1) | 10.00 |                    |           |                           |                        |
| O-N    | 0 / 883   | -18.5                     | -18.5                     | 0.19 (4) | 10.00 |                    |           |                           |                        |
| N-M    | 0 / 990   | -18.5                     | -18.5                     | 0.15 (1) | 10.00 |                    |           |                           |                        |
| M-L    | 0 / 883   | -18.5                     | -18.5                     | 0.19 (4) | 10.00 |                    |           |                           |                        |
| L-K    | 0 / 883   | -18.5                     | -18.5                     | 0.19 (4) | 10.00 |                    |           |                           |                        |
| K-J    | 0 / 957   | -18.5                     | -18.5                     | 0.20 (1) | 10.00 |                    |           |                           |                        |

### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 26.7 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 40.1 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 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.76")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.76")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.28/1.00 (F-G:1), BC=0.20/1.00 (O-P:1), WB=0.57/1.00 (G-J:1), SSI=0.19/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

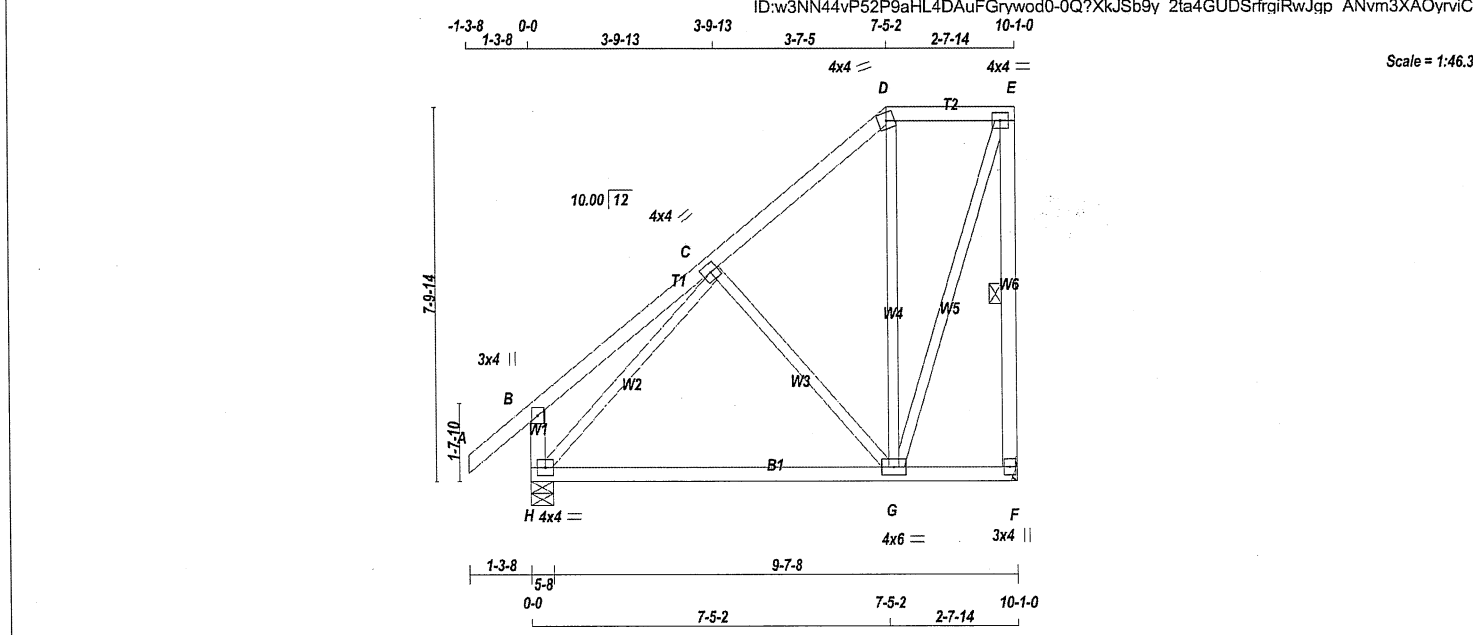
JSI GRIP= 0.74 (K) (INPUT = 0.90)  
JSI METAL= 0.33 (G) (INPUT = 1.00)



STRUCTURAL COMPONENT ONLY  
DWG # TR22080183

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | T12        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington



TOTAL WEIGHT = 58 lb

| LUMBER          | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------|-------------------|--------|------|--------|--------|
| A - D           | 2x4               | DRY    | No.2 | SPF    |        |
| D - E           | 2x4               | DRY    | No.2 | SPF    |        |
| F - E           | 2x4               | DRY    | No.2 | SPF    |        |
| H - B           | 2x4               | DRY    | No.2 | SPF    |        |
| H - F           | 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 |
|-----------------------------|---------|------|--------|-----|-----|---|---|
| B                           | TMV+p   | MT20 | 3.0    | 4.0 |     |   |   |
| C                           | TMVW-t  | MT20 | 4.0    | 4.0 |     |   |   |
| D                           | TTW-m   | MT20 | 4.0    | 4.0 |     |   |   |
| E                           | TMVW-t  | MT20 | 4.0    | 4.0 |     |   |   |
| F                           | BMV1+p  | MT20 | 3.0    | 4.0 |     |   |   |
| G                           | BMVWW-t | MT20 | 4.0    | 6.0 |     |   |   |
| H                           | BMVW1-t | MT20 | 4.0    | 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      |       | REQRD |  |
|----------------|------|----------------|------|------------------|--------|------------|-------|-------|--|
| GROSS REACTION |      | GROSS REACTION |      | GROSS REACTION   |        | BRG        |       | BRG   |  |
| JT             | VERT | HORZ           | DOWN | HORZ             | UPLIFT | IN-SX      | IN-SX |       |  |
| F              | 573  | 0              | 573  | 0                | 0      | MECHANICAL |       |       |  |
| H              | 705  | 0              | 705  | 0                | 0      | 5-8        |       |       |  |

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

# UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX / MIN | COMPONENT REACTIONS |            |       |         |       |  |
|----|-----------|-----------|---------------------|------------|-------|---------|-------|--|
| JT | COMBINED  | SNOW      | LIVE                | PERM. LIVE | WIND  | DEAD    | SOIL  |  |
| F  | 405       | 270 / 0   | 0 / 0               | 0 / 0      | 0 / 0 | 135 / 0 | 0 / 0 |  |
| H  | 495       | 344 / 0   | 0 / 0               | 0 / 0      | 0 / 0 | 152 / 0 | 0 / 0 |  |

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

# BRACING

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

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

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

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

# LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                | WEBS  |                           |                                |                                |
|--------|---------------------------|---------------------------|--------------------------------|-------|---------------------------|--------------------------------|--------------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (LC1) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC1) | MAX. FACTORED VERT. LOAD (LC1) |
| FR-TO  |                           | FROM                      | TO                             | FR-TO |                           | FROM                           | TO                             |
| A-B    | 0 / 42                    | -95.2                     | -95.2 0.13 (1)                 | 10.00 | C-G                       | -250 / 0                       | 0.15 (1)                       |
| B-C    | 0 / 28                    | -95.2                     | -95.2 0.22 (1)                 | 10.00 | G-D                       | -131 / 5                       | 0.15 (1)                       |
| C-D    | -233 / 0                  | -95.2                     | -95.2 0.17 (1)                 | 6.25  | G-E                       | 0 / 486                        | 0.11 (1)                       |
| D-E    | -156 / 0                  | -95.2                     | -95.2 0.09 (1)                 | 6.25  | H-C                       | -501 / 0                       | 0.27 (1)                       |
| F-E    | -585 / 0                  | 0.0                       | 0.0 0.16 (1)                   | 6.25  |                           |                                |                                |
| H-B    | -264 / 0                  | 0.0                       | 0.0 0.03 (1)                   | 7.81  |                           |                                |                                |
| H-G    | 0 / 323                   | -18.5                     | -18.5 0.25 (4)                 | 10.00 |                           |                                |                                |
| G-F    | 0 / 0                     | -18.5                     | -18.5 0.23 (4)                 | 10.00 |                           |                                |                                |

# DESIGN CRITERIA

| SPECIFIED LOADS:      |    |            |
|-----------------------|----|------------|
| TOP CH.               | LL | = 26.7 PSF |
|                       | DL | = 6.0 PSF  |
| BOT CH.               | LL | = 0.0 PSF  |
|                       | DL | = 7.4 PSF  |
| TOTAL LOAD = 40.1 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 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.34")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")

ALLOWABLE DEFL.(TL)= L/360 (0.34")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.22/1.00 (B-C:1) , BC=0.25/1.00 (G-H:4) , WB=0.27/1.00 (C-H:1) , SS=0.13/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.69 (G) (INPUT = 0.90 )

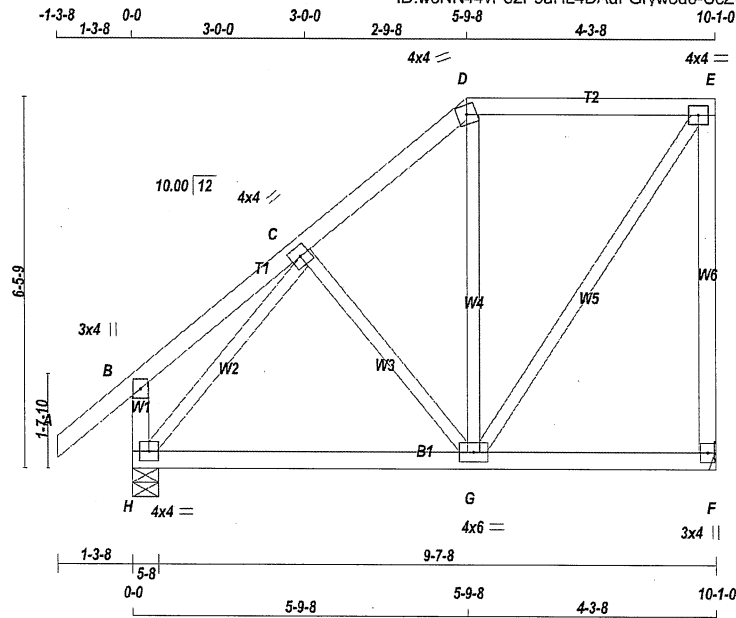
JSI METAL= 0.17 (C) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080184

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427556</b>       | TRUSS NAME<br><b>T13</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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Scale = 1:38.5

TOTAL WEIGHT = 53 lb

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT TYPE   | PLATES | W   | LEN | Y | X |
|-----------|--------|-----|-----|---|---|
| B TMV+p   | MT20   | 3.0 | 4.0 |   |   |
| C TMVW-t  | MT20   | 4.0 | 4.0 |   |   |
| D TTW-m   | MT20   | 4.0 | 4.0 |   |   |
| E TMVW-t  | MT20   | 4.0 | 4.0 |   |   |
| F BMV1+p  | MT20   | 3.0 | 4.0 |   |   |
| G BMVW-t  | MT20   | 4.0 | 6.0 |   |   |
| H BMVW1-t | MT20   | 4.0 | 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**

|         | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|---------|-------------------------|---------------------------------|-----------|----------|
| JT VERT |                         |                                 |           |          |
| F 573   | 0                       | 573                             | 0         | 0        |
| H 705   | 0                       | 705                             | 0         | 0        |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE COMBINED | MAX/MIN. COMPONENT REACTIONS | DEAD  | SOIL    |
|----|-------------------|------------------------------|-------|---------|
| F  | 405               | 270 / 0                      | 0 / 0 | 135 / 0 |
| H  | 495               | 344 / 0                      | 0 / 0 | 152 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                             | WEBS  |                           |                             |          |
|--------|---------------------------|---------------------------|-----------------------------|-------|---------------------------|-----------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED LC1 MAX. (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED LC1 MAX. (LC) |          |
| FR-TO  |                           | FROM                      | TO                          | FR-TO |                           | FROM                        | TO       |
| A-B    | 0 / 42                    | -95.2                     | -95.2 0.13 (1)              | 10.00 | C-G                       | -148 / 0                    | 0.06 (1) |
| B-C    | 0 / 21                    | -95.2                     | -95.2 0.13 (1)              | 10.00 | G-D                       | -114 / 16                   | 0.08 (1) |
| C-D    | -329 / 0                  | -95.2                     | -95.2 0.10 (1)              | 6.25  | G-E                       | 0 / 417                     | 0.09 (1) |
| D-E    | -234 / 0                  | -95.2                     | -95.2 0.22 (1)              | 6.25  | H-C                       | -538 / 0                    | 0.19 (1) |
| F-E    | -548 / 0                  | 0.0                       | 0.0 0.47 (1)                | 7.81  |                           |                             |          |
| H-B    | -236 / 0                  | 0.0                       | 0.0 0.03 (1)                | 7.81  |                           |                             |          |
| H-G    | 0 / 330                   | -18.5                     | -18.5 0.17 (4)              | 10.00 |                           |                             |          |
| G-F    | 0 / 0                     | -18.5                     | -18.5 0.14 (4)              | 10.00 |                           |                             |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |               |
|------------|---------------|
| TOP CH.    | LL = 26.7 PSF |
|            | DL = 6.0 PSF  |
| BOT CH.    | LL = 0.0 PSF  |
|            | DL = 7.4 PSF  |
| TOTAL LOAD | = 40.1 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 CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.47/1.00 (E-F:1), BC=0.17/1.00 (G-H:4), WB=0.19/1.00 (C-H:1), SSI=0.16/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.59 (C) (INPUT = 0.90 )  
JSI METAL= 0.18 (C) (INPUT = 1.00 )

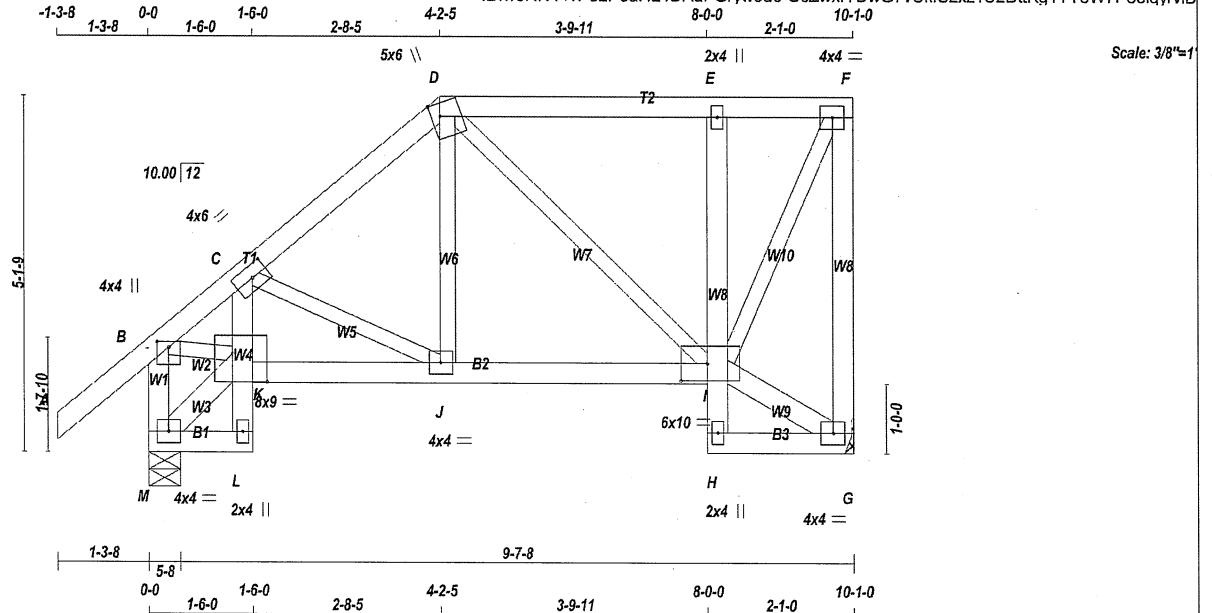


STRUCTURAL COMPONENT ONLY  
DWG # TR22080185

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | T14        | 1        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 58 lb  
[M]

| 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  |        |        |
| M - B           | 2x4 DRY           | No.2   | SPF  |        |        |
| M - L           | 2x4 DRY           | No.2   | SPF  |        |        |
| K - I           | 2x4 DRY           | No.2   | SPF  |        |        |
| H - G           | 2x4 DRY           | No.2   | SPF  |        |        |
| ALL WEBS EXCEPT | 2x4 DRY           | No.2   | SPF  |        |        |
| C - J           | 2x3 DRY           | No.2   | SPF  |        |        |
| J - D           | 2x3 DRY           | No.2   | SPF  |        |        |
| D - I           | 2x3 DRY           | No.2   | SPF  |        |        |
| B - K           | 2x3 DRY           | No.2   | SPF  |        |        |
| I - F           | 2x3 DRY           | No.2   | SPF  |        |        |

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE   | PLATES | W   | LEN  | Y    | X    |
|-----------|--------|-----|------|------|------|
| B TMVW+p  | MT20   | 4.0 | 4.0  | 1.00 | 2.00 |
| C TMWW-t  | MT20   | 4.0 | 6.0  | 2.00 | 2.75 |
| D TTWW+m  | MT20   | 5.0 | 6.0  | 2.25 | 1.50 |
| E TMW+w   | MT20   | 2.0 | 4.0  |      |      |
| F TMVW-t  | MT20   | 4.0 | 4.0  |      |      |
| G BMVW1-t | MT20   | 4.0 | 4.0  |      |      |
| H BMW+w   | MT20   | 2.0 | 4.0  |      |      |
| I BMVW1-t | MT20   | 6.0 | 10.0 | 3.00 | 4.50 |
| J BMVW-t  | MT20   | 4.0 | 4.0  |      |      |
| K BMVW1-t | MT20   | 8.0 | 9.0  | 4.75 | 6.00 |
| L BMW+w   | MT20   | 2.0 | 4.0  |      |      |
| M BMVW1-t | MT20   | 4.0 | 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|---------|-------------------------|---------------------------------|-----------|-----------|
| JT VERT | 564                     | 564                             | 0         | 0         |
| G VERT  | 714                     | 714                             | 0         | 0         |
| M VERT  | 0                       | 0                               | 5-8       | 5-8       |

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

##### UNFACTORED REACTIONS

| JT | COMBINED | 1ST LCASE | MAX /MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|-----------|-------------------------------|-------|-------|-----------|-------|---------|-------|
| G  | 398      | 264 / 0   | 0 / 0                         | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 134 / 0 | 0 / 0 |
| M  | 501      | 349 / 0   | 0 / 0                         | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 153 / 0 | 0 / 0 |

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

##### BRACING

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                  |                         | WEBS  |                           |                         |  |
|--------|---------------------------|------------------|-------------------------|-------|---------------------------|-------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. FACTORED (LC) (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED (LC) (LC) |  |
| FR-TO  |                           |                  |                         | FR-TO |                           |                         |  |
| A-B    | 0 / 42                    | -95.2            | -95.2 0.13 (1)          | L-K   | 0 / 14                    | 0.03 (1)                |  |
| B-C    | -674 / 0                  | -95.2            | -95.2 0.13 (1)          | K-C   | 0 / 30                    | 0.03 (1)                |  |
| C-D    | -477 / 0                  | -95.2            | -95.2 0.11 (1)          | H-I   | 0 / 20                    | 0.02 (1)                |  |
| D-E    | -263 / 0                  | -95.2            | -95.2 0.18 (1)          | I-E   | -378 / 0                  | 0.03 (1)                |  |
| E-F    | -262 / 0                  | -95.2            | -95.2 0.18 (1)          | C-J   | -179 / 0                  | 0.04 (1)                |  |
| G-F    | -538 / 0                  | 0.0              | 0.0 0.24 (1)            | J-D   | 0 / 118                   | 0.03 (4)                |  |
| M-B    | -684 / 0                  | 0.0              | 0.0 0.07 (1)            | D-I   | -136 / 0                  | 0.07 (1)                |  |
|        |                           |                  |                         | M-K   | -26 / 0                   | 0.00 (1)                |  |
| M-L    | 0 / 19                    | -18.5            | -18.5 0.01 (4)          | B-K   | 0 / 501                   | 0.11 (1)                |  |
| K-J    | 0 / 519                   | -18.5            | -18.5 0.12 (1)          | I-F   | 0 / 575                   | 0.13 (1)                |  |
| J-I    | 0 / 361                   | -18.5            | -18.5 0.09 (4)          | I-G   | -17 / 0                   | 0.00 (1)                |  |
| H-G    | 0 / 15                    | -18.5            | -18.5 0.02 (4)          |       |                           |                         |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(LL)= L/ 899 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(TL)= L/ 899 (0.02")

CSI: TC=0.24/1.00 (F-G:1), BC=0.12/1.00 (J-K:1), WB=0.13/1.00 (F-I:1), SSI=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE GRIP(DRY) | SHEAR (PSI) | 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= 0.72 (B) (INPUT = 0.90 )  
JSI METAL = 0.20 (B) (INPUT = 1.00 )

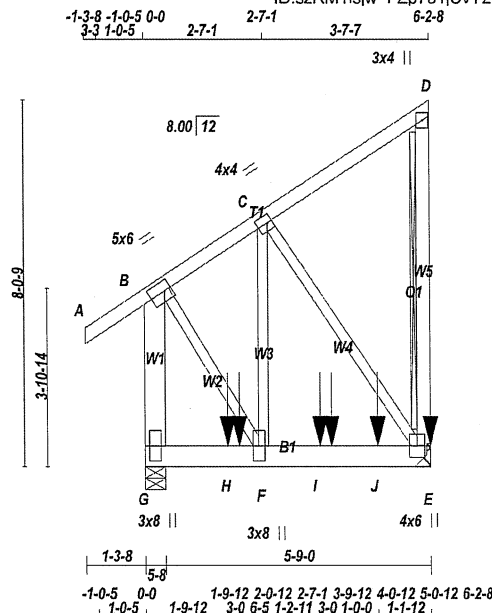


STRUCTURAL COMPONENT ONLY  
DWG # TR22080186

JSI GRIP= 0.73 (F) (INPUT = 0.90 )  
JSI METAL= 0.20 (F) (INPUT = 1.00 )

|                    |                   |               |          |                              |          |
|--------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427556 | TRUSS NAME<br>T16 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington



Scale = 1:48.6

TOTAL WEIGHT = 2 X 48 = 96 lb [M]

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD (PLF) |
|------------------------------------------|----------------------|------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |            |
| A - D 1                                  | 12                   | TOP        |
| E - D 1                                  | 12                   | TOP        |
| G - B 2                                  | 12                   | TOP        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |            |
| G - E 2                                  | 12                   | SIDE (0.0) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |            |
| 2x3 1                                    | 6                    |            |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| PLATES (table is in inches) | JT TYPE | PLATES | W   | LEN | Y    | X    |
|-----------------------------|---------|--------|-----|-----|------|------|
| B                           | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |



STRUCTURAL COMPONENT ONLY  
DWG # TR22080188 PG 1/2

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

| BEARINGS |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG  |       | REQRD BRG |  |
|----------|------|-------------------------|------|---------------------------------|--------|------------|-------|-----------|--|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX      | IN-SX |           |  |
| E        | 2841 | 0                       | 2841 | 0                               | 0      | MECHANICAL |       |           |  |
| G        | 2143 | 0                       | 2143 | 0                               | 0      | 5-8        | 5-8   |           |  |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | SNOW     | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|----------|-------|-----------|-------|---------|-------|
| JT | 1996               | 1385 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 611 / 0 | 0 / 0 |
| G  | 1504               | 1055 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 448 / 0 | 0 / 0 |

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

#### BRACING

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

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

2x4 DRY SPF No.2 T-BRACE AT D-E

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.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                  | WEBS  |                           |                           |                  |
|--------|---------------------------|---------------------------|------------------|-------|---------------------------|---------------------------|------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) |
| FR-TO  |                           | FROM TO                   |                  | FR-TO |                           | FROM TO                   |                  |
| A-B    | 0 / 36                    | -95.2 -95.2               | 0.07 (1)         | 10.00 | F-C                       | 0 / 1551                  | 0.19 (1)         |
| B-C    | -1069 / 0                 | -95.2 -95.2               | 0.09 (1)         | 6.25  | C-E                       | -1597 / 0                 | 0.55 (1)         |
| C-D    | -17 / 0                   | -95.2 -95.2               | 0.08 (1)         | 6.25  | B-F                       | 0 / 1528                  | 0.19 (1)         |
| E-D    | -142 / 0                  | 0.0 0.0                   | 0.03 (1)         | 7.81  |                           |                           |                  |
| G-B    | -2046 / 0                 | 0.0 0.0                   | 0.17 (1)         | 7.81  |                           |                           |                  |
| G-H    | 0 / 0                     | -18.5 -18.5               | 0.32 (1)         | 10.00 |                           |                           |                  |
| H-F    | 0 / 0                     | -18.5 -18.5               | 0.32 (1)         | 10.00 |                           |                           |                  |
| F-I    | 0 / 909                   | -18.5 -18.5               | 0.40 (1)         | 10.00 |                           |                           |                  |
| I-J    | 0 / 909                   | -18.5 -18.5               | 0.40 (1)         | 10.00 |                           |                           |                  |
| J-E    | 0 / 909                   | -18.5 -18.5               | 0.40 (1)         | 10.00 |                           |                           |                  |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 MAX- | MAX+ | FACE | DIR.  | TYPE | HEEL  | CONN. |
|----|--------|----------|------|------|-------|------|-------|-------|
| E  | 6-2-8  | -395     | -395 | ---  | FRONT | VERT | TOTAL | C1    |
| H  | 1-9-12 | -581     | -581 | ---  | BACK  | VERT | TOTAL | C1    |
| H  | 2-0-12 | -383     | -383 | ---  | FRONT | VERT | TOTAL | C1    |
| I  | 3-9-12 | -581     | -581 | ---  | BACK  | VERT | TOTAL | C1    |
| I  | 4-0-12 | -390     | -390 | ---  | FRONT | VERT | TOTAL | C1    |
| J  | 5-0-12 | -581     | -581 | ---  | BACK  | VERT | TOTAL | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.21")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL)= L/360 (0.21")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.17/1.00 (B-G:1), BC=0.40/1.00 (E-F:1), WB=0.55/1.00 (C-E:1), SS=0.48/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (C) (INPUT = 0.90)  
JSI METAL= 0.39 (F) (INPUT = 1.00)

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | T16        | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| C  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.25 |
| D  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| E  | BMVW1+p | MT20   | 4.0 | 6.0 |      |      |
| F  | BMWW+t  | MT20   | 3.0 | 8.0 |      |      |
| G  | BMV1+p  | MT20   | 3.0 | 8.0 |      |      |

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

**CONNECTION REQUIREMENTS**

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

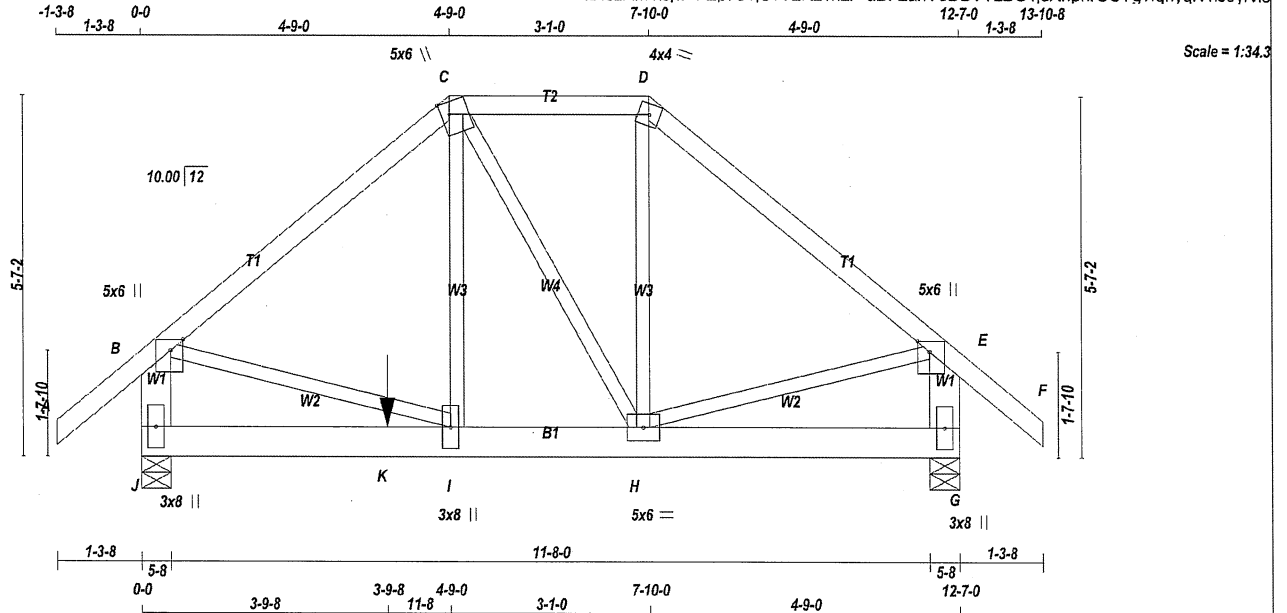


STRUCTURAL COMPONENT ONLY  
DWG # TR22080188 PG 2/2



|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427556</b>       | TRUSS NAME<br><b>T18</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREENPARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 |                                     |          |

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TOTAL WEIGHT = 2 X 68 = 137 lb

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

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |           |
| A - C                                    | 1                    | 12        |
| C - D                                    | 1                    | 12        |
| D - F                                    | 1                    | 12        |
| J - B                                    | 2                    | 12        |
| G - E                                    | 2                    | 12        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| J - G                                    | 2                    | 12        |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |           |
| 2x3                                      | 1                    | 6         |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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     |
| J        | 1586                    | 0                               | 1586      | 0        |
| G        | 1166                    | 0                               | 1166      | 0        |

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |
|-----------|-------------------------------|
| JT        | COMBINED                      |
| J         | 1112                          |
| G         | 819                           |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD (PLF) |
|--------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| MEMB.  |                           |                           |                                |                                |                                |                                |                                |                                |                                |
| FR-TO  |                           |                           |                                |                                |                                |                                |                                |                                |                                |
| A-B    | 0 / 42                    | -95.2                     | -95.2                          | 0.07 (1)                       | 10.00                          | I-C                            | 0 / 915                        | 0.11 (1)                       |                                |
| B-C    | -1250 / 0                 | -95.2                     | -95.2                          | 0.22 (1)                       | 6.25                           | C-H                            | -556 / 0                       | 0.17 (1)                       |                                |
| C-D    | -704 / 0                  | -95.2                     | -95.2                          | 0.09 (1)                       | 6.25                           | H-D                            | 0 / 212                        | 0.03 (1)                       |                                |
| D-E    | -910 / 0                  | -95.2                     | -95.2                          | 0.21 (1)                       | 6.25                           | B-I                            | 0 / 988                        | 0.12 (1)                       |                                |
| E-F    | 0 / 42                    | -95.2                     | -95.2                          | 0.07 (1)                       | 10.00                          | H-E                            | 0 / 719                        | 0.09 (1)                       |                                |
| J-B    | -1401 / 0                 | 0.0                       | 0.0                            | 0.05 (1)                       | 7.81                           |                                |                                |                                |                                |
| G-E    | -1115 / 0                 | 0.0                       | 0.0                            | 0.04 (1)                       | 7.81                           |                                |                                |                                |                                |
| J-K    | 0 / 0                     | -18.5                     | -18.5                          | 0.21 (1)                       | 10.00                          |                                |                                |                                |                                |
| K-I    | 0 / 0                     | -18.5                     | -18.5                          | 0.21 (1)                       | 10.00                          |                                |                                |                                |                                |
| I-H    | 0 / 977                   | -18.5                     | -18.5                          | 0.23 (1)                       | 10.00                          |                                |                                |                                |                                |
| H-G    | 0 / 0                     | -18.5                     | -18.5                          | 0.03 (4)                       | 10.00                          |                                |                                |                                |                                |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|-------|------|------|------|-------|------|-------|------|-------|
| K  | 3-9-8 | -739 | -739 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.42")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL)= L/360 (0.42")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.22/1.00 (B-C:1), BC=0.23/1.00 (H-I:1), WB=0.17/1.00 (C-H:1), SSI=0.32/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.64 (I) (INPUT = 0.90 )  
JSI METAL= 0.29 (I) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080190 PG 1/2

CONTINUED ON PAGE 2

|                                 |            |          |     |                 |          |
|---------------------------------|------------|----------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.       | DRWG NO. |
| 427556                          | T18        | 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    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| C  | TTWW+m  | MT20   | 5.0 | 6.0 | 2.25 | 1.50 |
| D  | TTW-m   | MT20   | 4.0 | 4.0 |      |      |
| E  | TMVW+p  | MT20   | 5.0 | 6.0 | 2.00 | 2.25 |
| G  | BMV1+p  | MT20   | 3.0 | 8.0 |      |      |
| H  | BMWWW-t | MT20   | 5.0 | 6.0 |      |      |
| I  | BMWW+t  | MT20   | 3.0 | 8.0 |      |      |
| J  | BMV1+p  | MT20   | 3.0 | 8.0 |      |      |

**NOTES- (1)**

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

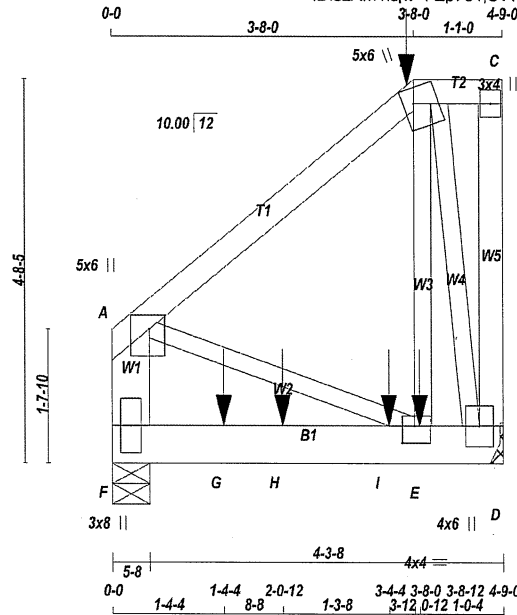


STRUCTURAL COMPONENT ONLY  
DWG # TR22080190 PG 2/2

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | T19        | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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Scale = 1:27.0

TOTAL WEIGHT = 2 X 31 = 63 lb [M]

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

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A - B 1                                  | 12                   | SIDE(61.0)  |
| B - C 1                                  | 12                   | SIDE(61.0)  |
| C - D 1                                  | 12                   | TOP         |
| F - A 2                                  | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| F - D 2                                  | 12                   | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF 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 | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| D  | 1076                    | 0                               | 1076      | 0         |
| F  | 944                     | 0                               | 944       | 0         |

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

##### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX /MIN | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|----------|-------|-------|-----------|-------|---------|-------|
| D  | 754                | 534 / 0  | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 220 / 0 | 0 / 0 |
| F  | 662                | 464 / 0  | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 198 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           | FACTORED         |                | WEBS  |                           |
|--------|---------------------------|------------------|----------------|-------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX. (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           | FROM             | TO             | FR-TO |                           |
| A-B    | -370 / 0                  | -95.2            | -95.2 0.12 (1) | E-B   | 0 / 977                   |
| B-C    | 0 / 0                     | -95.2            | -95.2 0.01 (1) | B-D   | -1255 / 0                 |
| D-C    | -52 / 0                   | 0.0              | 0.0 0.01 (1)   | A-E   | 0 / 298                   |
| F-A    | -504 / 0                  | 0.0              | 0.0 0.02 (1)   |       |                           |
| F-G    | 0 / 0                     | -18.5            | -18.5 0.21 (1) |       |                           |
| G-H    | 0 / 0                     | -18.5            | -18.5 0.21 (1) |       |                           |
| H-I    | 0 / 0                     | -18.5            | -18.5 0.21 (1) |       |                           |
| I-E    | 0 / 0                     | -18.5            | -18.5 0.21 (1) |       |                           |
| E-D    | 0 / 307                   | -18.5            | -18.5 0.09 (1) |       |                           |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|-------|------|-------|------|-------|
| B  | 3-8-0  | -174 | -174 | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| E  | 3-8-12 | -9   | -9   | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| G  | 1-4-4  | -422 | -422 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| H  | 2-0-12 | -6   | -6   | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| I  | 3-4-4  | -424 | -424 | ---  | FRONT | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.12/1.00 (A-B:1), BC=0.21/1.00 (E-F:1), WB=0.20/1.00 (B-D:1), SSI=0.28/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

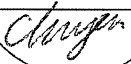
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (E) (INPUT = 0.90)  
JSI METAL= 0.14 (E) (INPUT = 1.00)

CONTINUED ON PAGE 2

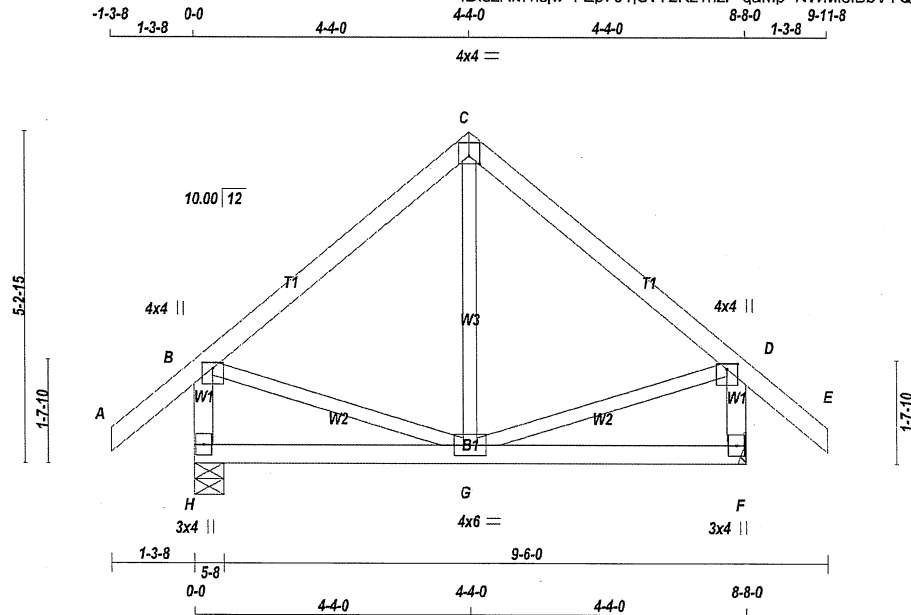


STRUCTURAL COMPONENT ONLY  
DWG # TR22080191 PG 1/2

| JOB NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                                                                                                                                      | GREENPARK HOMES | DRWG NO. |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|----|------|--------|---|-----|---|---|---|--------|------|-----|-----|------|------|---|--------|------|-----|-----|------|------|---|-------|------|-----|-----|--|--|---|---------|------|-----|-----|--|--|---|--------|------|-----|-----|------|------|---|--------|------|-----|-----|--|--|
| 427556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | T19        | 1        | 2   | TRUSS DESC.                                                                                                                                                    |                 |          |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| Tamarack Roof Truss, Burlington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |          |     | Version 8.530 S Feb 23 2022 MiTek Industries, Inc. Tue Aug 2 11:44:54 2022 Page 2<br>ID:szRM1lsjw FZp751jUvY2Kz1nzP-MNpQn1Wk VdKzLzDHm20MuNbix0SUGV621mlrcyrv7 |                 |          |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| <p><b>PLATES (table is in inches)</b></p> <table><thead><tr><th>JT</th><th>TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr></thead><tbody><tr><td>A</td><td>TMVW+p</td><td>MT20</td><td>5.0</td><td>6.0</td><td>2.00</td><td>2.25</td></tr><tr><td>B</td><td>TTWW+m</td><td>MT20</td><td>5.0</td><td>6.0</td><td>2.25</td><td>1.50</td></tr><tr><td>C</td><td>TMV+p</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr><tr><td>D</td><td>BMVW1+p</td><td>MT20</td><td>4.0</td><td>6.0</td><td></td><td></td></tr><tr><td>E</td><td>BMWW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td>2.50</td><td>1.75</td></tr><tr><td>F</td><td>BMV1+p</td><td>MT20</td><td>3.0</td><td>8.0</td><td></td><td></td></tr></tbody></table> <p><b>NOTES-</b> (1)<br/>1) Lateral braces to be a minimum of 2X4 SPF #2.</p> |            |          |     |                                                                                                                                                                |                 |          | JT | TYPE | PLATES | W | LEN | Y | X | A | TMVW+p | MT20 | 5.0 | 6.0 | 2.00 | 2.25 | B | TTWW+m | MT20 | 5.0 | 6.0 | 2.25 | 1.50 | C | TMV+p | MT20 | 3.0 | 4.0 |  |  | D | BMVW1+p | MT20 | 4.0 | 6.0 |  |  | E | BMWW-t | MT20 | 4.0 | 4.0 | 2.50 | 1.75 | F | BMV1+p | MT20 | 3.0 | 8.0 |  |  |
| JT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TYPE       | PLATES   | W   | LEN                                                                                                                                                            | Y               | X        |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TMVW+p     | MT20     | 5.0 | 6.0                                                                                                                                                            | 2.00            | 2.25     |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TTWW+m     | MT20     | 5.0 | 6.0                                                                                                                                                            | 2.25            | 1.50     |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TMV+p      | MT20     | 3.0 | 4.0                                                                                                                                                            |                 |          |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BMVW1+p    | MT20     | 4.0 | 6.0                                                                                                                                                            |                 |          |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BMWW-t     | MT20     | 4.0 | 4.0                                                                                                                                                            | 2.50            | 1.75     |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BMV1+p     | MT20     | 3.0 | 8.0                                                                                                                                                            |                 |          |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |
| <div><div><div>LICENSED PROFESSIONAL ENGINEER</div><div>8/02/22</div><div>C. M. HEYENS</div><div>100505065</div><div></div><div>PROVINCE OF ONTARIO</div></div><div>STRUCTURAL COMPONENT ONLY</div><div>DWG # TR22080191 PG 2/2</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |          |     |                                                                                                                                                                |                 |          |    |      |        |   |     |   |   |   |        |      |     |     |      |      |   |        |      |     |     |      |      |   |       |      |     |     |  |  |   |         |      |     |     |  |  |   |        |      |     |     |      |      |   |        |      |     |     |  |  |

|                                 |                          |                      |                 |                                     |          |
|---------------------------------|--------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427556</b>       | TRUSS NAME<br><b>T20</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. Tue Aug 2 11:44:55 2022 Page 1  
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Scale = 1:35.0



TOTAL WEIGHT = 40 lb

#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| C  | TTW-p   | MT20   | 4.0 | 4.0 | 1.50 | 2.00 |
| D  | TMVW+p  | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| F  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |
| G  | BMVWW-l | MT20   | 4.0 | 6.0 |      |      |
| 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

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| H  | 625                     | 0                               | 625       | 0         |
| F  | 625                     | 0                               | 625       | 0         |

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

##### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX/MIN | COMPONENT REACTIONS |
|----|----------|---------|---------------------|
| H  | 438      | 306 / 0 | 0 / 0               |
| F  | 438      | 306 / 0 | 0 / 0               |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX  | MAX. UNBRAC LENGTH | MEMB. | WEBS     | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
|-------|----------|---------------------------|---------------------------|----------|--------------------|-------|----------|---------------------------|------------------------|
| FR-TO |          |                           |                           |          |                    | FR-TO |          |                           |                        |
| A-B   | 0 / 42   | -95.2                     | -95.2                     | 0.13 (1) | 10.00              | G-C   | -37 / 63 | 0.02 (4)                  |                        |
| B-C   | -293 / 0 | -95.2                     | -95.2                     | 0.23 (1) | 6.25               | B-G   | 0 / 235  | 0.05 (1)                  |                        |
| C-D   | -293 / 0 | -95.2                     | -95.2                     | 0.23 (1) | 6.25               | G-D   | 0 / 235  | 0.05 (1)                  |                        |
| D-E   | 0 / 42   | -95.2                     | -95.2                     | 0.13 (1) | 10.00              |       |          |                           |                        |
| H-B   | -593 / 0 | 0.0                       | 0.0                       | 0.06 (1) | 7.81               |       |          |                           |                        |
| F-D   | -593 / 0 | 0.0                       | 0.0                       | 0.06 (1) | 7.81               |       |          |                           |                        |
| H-G   | 0 / 0    | -18.5                     | -18.5                     | 0.10 (4) | 10.00              |       |          |                           |                        |
| G-F   | 0 / 0    | -18.5                     | -18.5                     | 0.10 (4) | 10.00              |       |          |                           |                        |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.29")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.29")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.23/1.00 (C-D:1), BC=0.10/1.00 (G-H:4), WB=0.05/1.00 (B-G:1), SSI=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    | (PLI)     |
| MAX MIN | MAX MIN   | 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= 0.48 (B) (INPUT = 0.90 )  
JSI METAL= 0.13 (B) (INPUT = 1.00 )

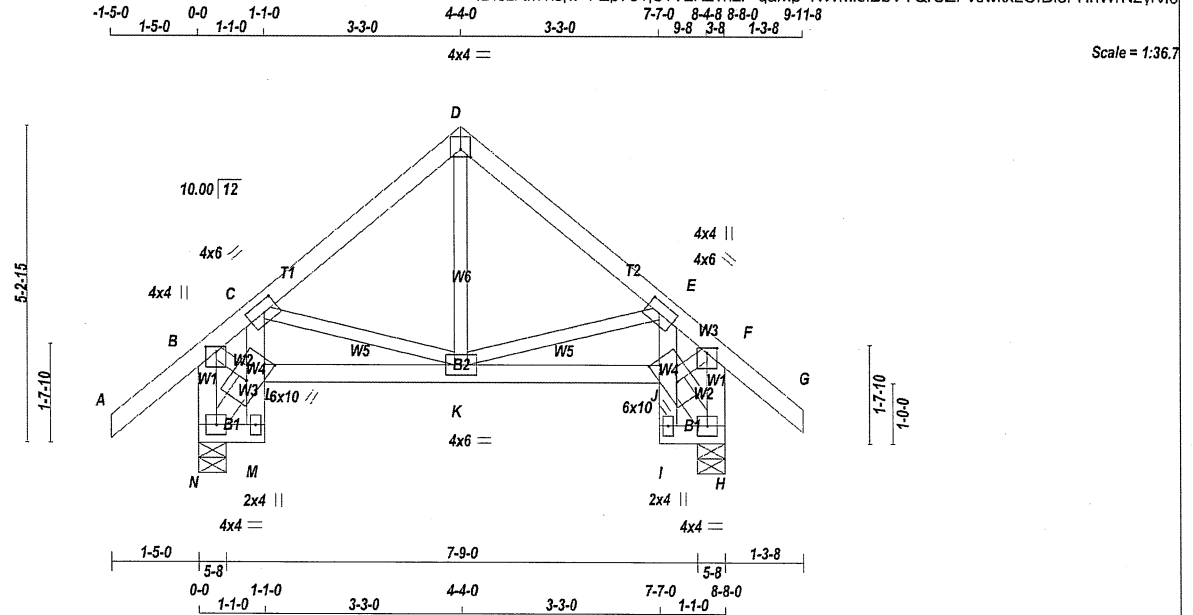


STRUCTURAL COMPONENT ONLY  
DWG # TR22080192

|                    |                    |               |          |                              |          |
|--------------------|--------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427556 | TRUSS NAME<br>T20S | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|--------------------|---------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 46 = 91 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE     | PLATES | W   | LEN  | Y    | X    |
|----|----------|--------|-----|------|------|------|
| B  | TMVW+p   | MT20   | 4.0 | 4.0  | 1.00 | 2.00 |
| C  | TMVW-t   | MT20   | 4.0 | 6.0  | 2.00 | 2.75 |
| D  | TTW-p    | MT20   | 4.0 | 4.0  | 1.50 | 2.00 |
| E  | TMVW-t   | MT20   | 4.0 | 6.0  | 2.00 | 2.75 |
| F  | TMVW+p   | MT20   | 4.0 | 4.0  | 1.00 | 2.00 |
| H  | BMVW1-t  | MT20   | 4.0 | 4.0  |      |      |
| I  | BMVW+w   | MT20   | 2.0 | 4.0  |      |      |
| J  | BMVWW*-w | MT20   | 6.0 | 10.0 | 2.75 | 5.75 |
| K  | BMVWW-t  | MT20   | 4.0 | 6.0  |      |      |
| L  | BMVWW*-w | MT20   | 6.0 | 10.0 | 2.75 | 5.75 |
| M  | BMVW+w   | MT20   | 2.0 | 4.0  |      |      |
| N  | BMVW1-t  | MT20   | 4.0 | 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 | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
|    | VERT                    | HORZ                            | DOWN      | UP        |
| N  | 638                     | 0                               | 638       | 0         |
| H  | 623                     | 0                               | 623       | 0         |

##### UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX./MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|-------------------------------|-------|-------|-----------|-------|---------|-------|
| N  | 448       | 314 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 135 / 0 | 0 / 0 |
| H  | 437       | 305 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 133 / 0 | 0 / 0 |

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

##### BRACING

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

MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                      | WEBS  |                           |                      |  |
|--------|---------------------------|---------------------------|----------------------|-------|---------------------------|----------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |  |
| FR-TO  |                           |                           |                      | FR-TO |                           |                      |  |
| A-B    | 0 / 46                    | -95.2 -95.2               | 0.16 (1)             | M-L   | 0 / 10                    | 0.02 (1)             |  |
| B-C    | -428 / 0                  | -95.2 -95.2               | 0.12 (1)             | L-C   | -132 / 0                  | 0.02 (1)             |  |
| C-D    | -346 / 0                  | -95.2 -95.2               | 0.13 (1)             | I-J   | 0 / 10                    | 0.02 (1)             |  |
| D-E    | -347 / 0                  | -95.2 -95.2               | 0.12 (1)             | J-E   | -137 / 0                  | 0.02 (1)             |  |
| E-F    | -431 / 0                  | -95.2 -95.2               | 0.13 (1)             | K-D   | 0 / 151                   | 0.04 (4)             |  |
| F-G    | 0 / 42                    | -95.2 -95.2               | 0.11 (1)             | K-E   | -96 / 0                   | 0.02 (1)             |  |
| N-B    | -611 / 0                  | 0.0 0.0                   | 0.06 (1)             | C-K   | -83 / 0                   | 0.02 (1)             |  |
| H-F    | -595 / 0                  | 0.0 0.0                   | 0.06 (1)             | B-L   | 0 / 346                   | 0.08 (1)             |  |
|        |                           |                           |                      | N-L   | -27 / 0                   | 0.00 (1)             |  |
| N-M    | 0 / 19                    | -18.5 -18.5               | 0.01 (4)             | J-F   | 0 / 360                   | 0.08 (1)             |  |
| L-K    | 0 / 333                   | -18.5 -18.5               | 0.09 (4)             | J-H   | -27 / 0                   | 0.00 (1)             |  |
| K-J    | 0 / 345                   | -18.5 -18.5               | 0.09 (4)             |       |                           |                      |  |
| I-H    | 0 / 19                    | -18.5 -18.5               | 0.01 (4)             |       |                           |                      |  |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | PSF |

##### SPACING = 24.0 IN./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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.29")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.29")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.16/1.00 (A-B-1), BC=0.09/1.00 (J-K-4), WB=0.08/1.00 (F-J-1), SSI=0.11/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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     |
| MT20            | 650   | 371     |
|                 | 1747  | 788     |
|                 | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (L) (INPUT = 0.90 )  
JSI METAL= 0.14 (F) (INPUT = 1.00 )

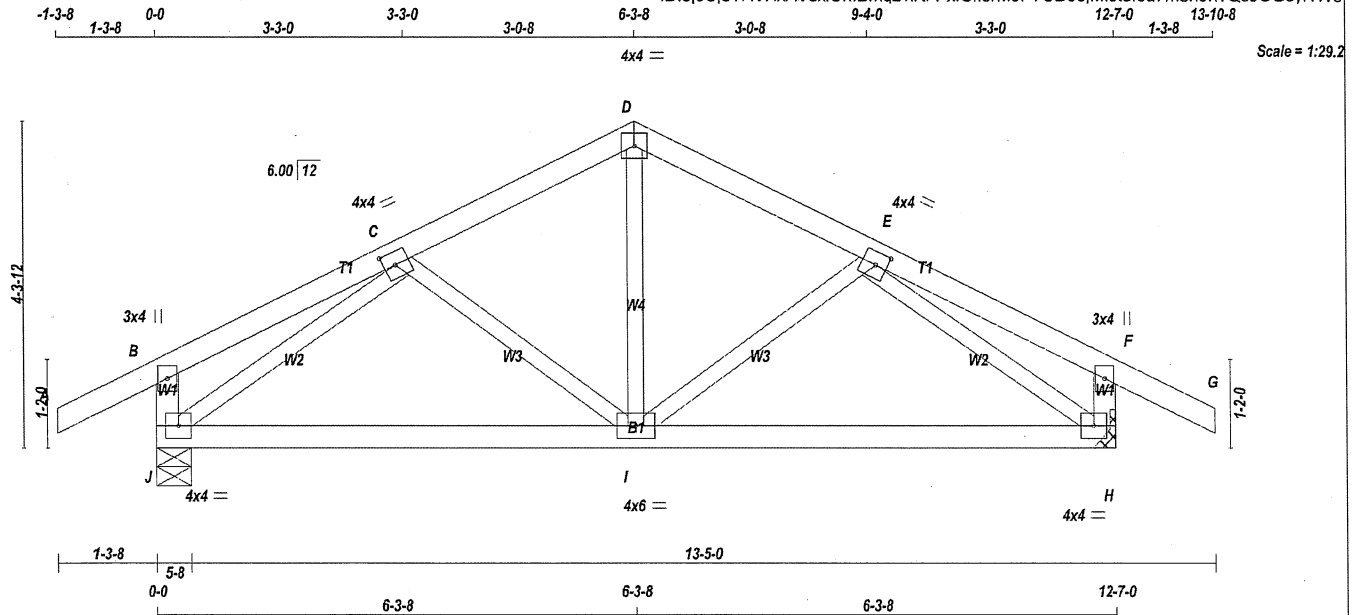


STRUCTURAL COMPONENT ONLY  
DWG # TR22080193

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427574   | T21        | 2        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.530 S Feb 23 2022 MiTek Industries, Inc. Tue Aug 2 11:57:41 2022 Page 1  
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TOTAL WEIGHT = 2 X 51 = 101 lb  
[M][F]

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| C  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TTW-p   | MT20   | 4.0 | 4.0 |      |      |
| E  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| H  | BMVW1-t | MT20   | 4.0 | 4.0 |      |      |
| I  | BMWWW-t | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW1-t | MT20   | 4.0 | 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      |        | REQRD |       |
|----------|----------------|----------|------|------------------|------|------------|--------|-------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | HORZ       | UPLIFT | BRG   | IN-SX |
| J        | 845            | 0        | 845  | 0                | 0    | 5-8        | 5-8    |       |       |
| H        | 845            | 0        | 845  | 0                | 0    | MECHANICAL |        |       |       |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|------------------------------|-------|-------|-----------|-------|---------|-------|
| J  | 594       | 409 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 185 / 0 | 0 / 0 |
| H  | 594       | 409 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 185 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |             | FACTORED         |       | MAX. FACTORED |        | MEMB. |             | MAX. FACTORED |          |
|--------|-------------|------------------|-------|---------------|--------|-------|-------------|---------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1   | MAX           | UNBRAC | MEMB. | FORCE (LBS) | MAX           | CSI (LC) |
| FR-TO  |             | FROM             | TO    |               | LENGTH | FR-TO |             |               |          |
| A-B    | 0 / 29      | -95.2            | -95.2 | 0.12 (1)      | 10.00  | I-D   | 0 / 348     | 0.08 (1)      |          |
| B-C    | 0 / 14      | -95.2            | -95.2 | 0.14 (1)      | 10.00  | I-E   | -168 / 0    | 0.05 (1)      |          |
| C-D    | -665 / 0    | -95.2            | -95.2 | 0.11 (1)      | 6.25   | C-I   | -168 / 0    | 0.05 (1)      |          |
| D-E    | -665 / 0    | -95.2            | -95.2 | 0.11 (1)      | 6.25   | J-C   | -903 / 0    | 0.24 (1)      |          |
| E-F    | 0 / 14      | -95.2            | -95.2 | 0.14 (1)      | 10.00  | E-H   | -903 / 0    | 0.24 (1)      |          |
| F-G    | 0 / 29      | -95.2            | -95.2 | 0.12 (1)      | 10.00  |       |             |               |          |
| J-B    | -248 / 0    | 0.0              | 0.0   | 0.03 (1)      | 7.81   |       |             |               |          |
| H-F    | -248 / 0    | 0.0              | 0.0   | 0.03 (1)      | 7.81   |       |             |               |          |
| J-I    | 0 / 715     | -18.5            | -18.5 | 0.26 (4)      | 10.00  |       |             |               |          |
| I-H    | 0 / 715     | -18.5            | -18.5 | 0.26 (4)      | 10.00  |       |             |               |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.42")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.42")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.14/1.00 (E-F:1), BC=0.26/1.00 (I-J:4), WB=0.24/1.00 (E-H:1), SSI=0.13/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

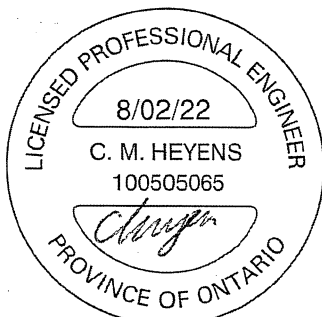
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

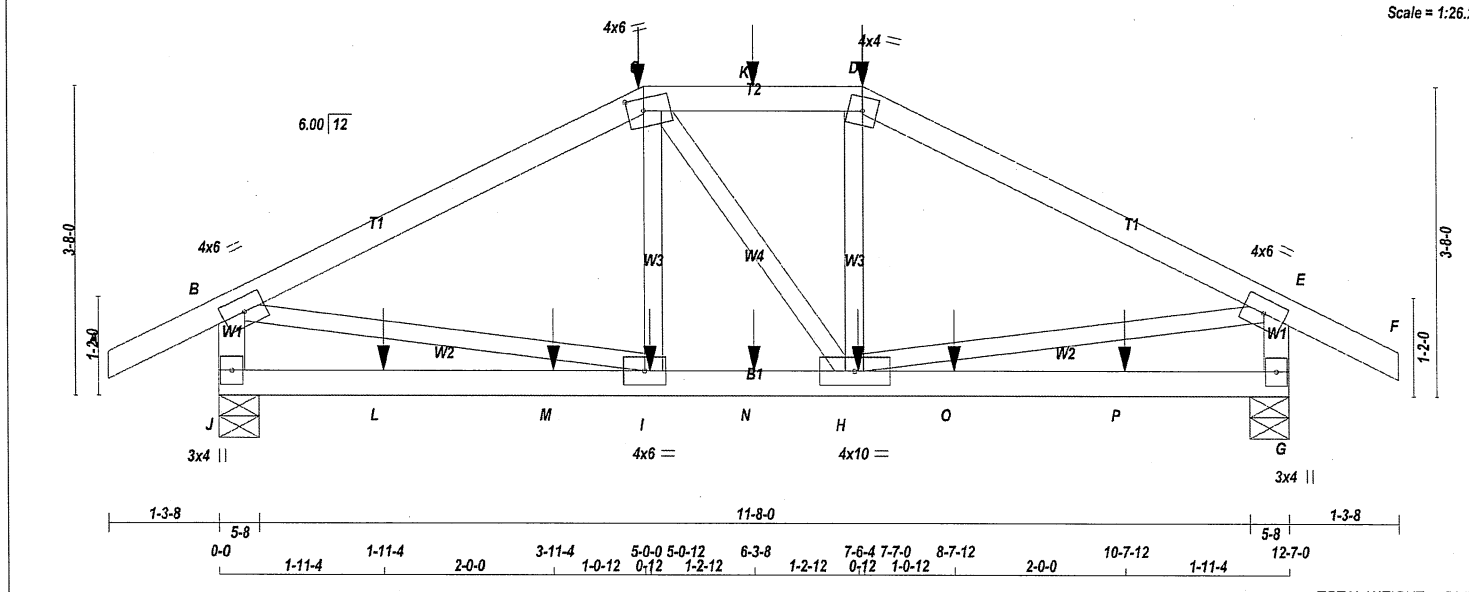
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (J) (INPUT = 0.90)  
JSI METAL= 0.28 (E) (INPUT = 1.00)



STRUCTURAL COMPONENT ONLY  
DWG # TR22080201



LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

A - C

2x4

DRY

No.2

SPF

C - D

2x4

DRY

No.2

SPF

D - F

2x4

DRY

No.2

SPF

J - B

2x4

DRY

No.2

SPF

G - E

2x4

DRY

No.2

SPF

J - G

2x4

DRY

No.2

SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN  | Y    | X    |
|----|---------|--------|-----|------|------|------|
| B  | TMVW-t  | MT20   | 4.0 | 6.0  |      |      |
| C  | TTWW-m  | MT20   | 4.0 | 6.0  | 1.75 | 2.25 |
| D  | TTW-m   | MT20   | 4.0 | 4.0  |      |      |
| E  | TMVW-t  | MT20   | 4.0 | 6.0  |      |      |
| G  | BMV1+p  | MT20   | 3.0 | 4.0  |      |      |
| H  | BMWVW-t | MT20   | 4.0 | 10.0 |      |      |
| I  | BMWVW-t | MT20   | 4.0 | 6.0  |      |      |
| J  | 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 | REQRD |        |       |       |
|----|----------------|------------------|-------|-------|--------|-------|-------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |        |       |       |
| JT | VERT           | HORZ             | DOWN  | HORZ  | UPLIFT | IN-SX | IN-SX |
| J  | 1323           | 0                | 1323  | 0     | 0      | 5-8   | 5-8   |
| G  | 1327           | 0                | 1327  | 0     | 0      | 5-8   | 5-8   |

UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |           |       |         |       |
|----|-----------|-----------|---------------------|-----------|-------|---------|-------|
|    | COMBINED  | SNOW      | LIVE                | PERM.LIVE | WIND  | DEAD    | SOIL  |
| J  | 933       | 627 / 0   | 0 / 0               | 0 / 0     | 0 / 0 | 305 / 0 | 0 / 0 |
| G  | 935       | 631 / 0   | 0 / 0               | 0 / 0     | 0 / 0 | 305 / 0 | 0 / 0 |

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.62 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.

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                | WEBS  |                           |                      |               |
|--------|---------------------------|---------------------------|----------------|-------|---------------------------|----------------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | MAX. LC1 (LC) |
| FR-TO  |                           | FROM                      | TO             | FR-TO |                           |                      |               |
| A-B    | 0 / 29                    | -95.2                     | -95.2 0.14 (1) | I-C   | -58 / 79                  | 10.00                | 0.03 (4)      |
| B-C    | -1505 / 0                 | -95.2                     | -95.2 0.53 (1) | C-H   | 0 / 13                    | 4.63                 | 0.00 (1)      |
| C-K    | -1351 / 0                 | -95.2                     | -95.2 0.25 (1) | H-D   | -65 / 77                  | 5.26                 | 0.03 (4)      |
| K-D    | -1351 / 0                 | -95.2                     | -95.2 0.25 (1) | B-I   | 0 / 1364                  | 5.26                 | 0.34 (1)      |
| D-E    | -1515 / 0                 | -95.2                     | -95.2 0.53 (1) | H-E   | 0 / 1372                  | 4.62                 | 0.34 (1)      |
| E-F    | 0 / 29                    | -95.2                     | -95.2 0.14 (1) |       |                           | 10.00                |               |
| J-B    | -1268 / 0                 | 0.0                       | 0.0 0.14 (1)   |       |                           | 7.11                 |               |
| G-E    | -1271 / 0                 | 0.0                       | 0.0 0.14 (1)   |       |                           | 7.11                 |               |
| J-L    | 0 / 0                     | -18.5                     | -18.5 0.18 (4) |       |                           | 10.00                |               |
| L-M    | 0 / 0                     | -18.5                     | -18.5 0.18 (4) |       |                           | 10.00                |               |
| M-I    | 0 / 0                     | -18.5                     | -18.5 0.18 (4) |       |                           | 10.00                |               |
| I-N    | 0 / 1343                  | -18.5                     | -18.5 0.31 (1) |       |                           | 10.00                |               |
| N-H    | 0 / 1343                  | -18.5                     | -18.5 0.31 (1) |       |                           | 10.00                |               |
| H-O    | 0 / 0                     | -18.5                     | -18.5 0.18 (4) |       |                           | 10.00                |               |
| O-P    | 0 / 0                     | -18.5                     | -18.5 0.18 (4) |       |                           | 10.00                |               |
| P-G    | 0 / 0                     | -18.5                     | -18.5 0.18 (4) |       |                           | 10.00                |               |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| C  | 5-0-0   | -215 | -215 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| D  | 7-7-0   | -230 | -230 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| H  | 7-6-4   | -30  | -30  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| I  | 5-0-12  | -30  | -30  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 6-3-8   | -72  | -72  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L  | 1-11-4  | -15  | -15  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| M  | 3-11-4  | -22  | -22  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| N  | 6-3-8   | -30  | -30  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| O  | 8-7-12  | -22  | -22  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| P  | 10-7-12 | -14  | -14  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

|              |      |      |     |
|--------------|------|------|-----|
| TOP CH.      | LL = | 26.7 | PSF |
|              | DL = | 6.0  | PSF |
| BOT CH.      | LL = | 0.0  | PSF |
|              | DL = | 7.4  | PSF |
| TOTAL LOAD = |      | 40.1 | 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 CBC 2018 , ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.42")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")  
ALLOWABLE DEFL.(TL)= L/360 (0.42")  
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.06")  
CSI: TC=0.53/1.00 (D-E:1), BC=0.31/1.00 (H-I:1), WB=0.34/1.00 (E-H:1), SSI=0.18/1.00 (D-E:1)  
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00  
COMPANION LIVE LOAD FACTOR = 1.00  
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .  
NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 788 1987 1873  
PLATE PLACEMENT TOL. = 0.250 inches  
PLATE ROTATION TOL. = 5.0 Deg.  
JSI GRIP= 0.81 (I) (INPUT = 0.90 )  
JSI METAL= 0.38 (E) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER

8/02/22

C. M. HEYENS

100505065

*Clayton*

PROVINCE OF ONTARIO

STRUCTURAL COMPONENT ONLY

DWG # TR22080202

8/02/22

C. M. HEYENS

100505065

LICENSED PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

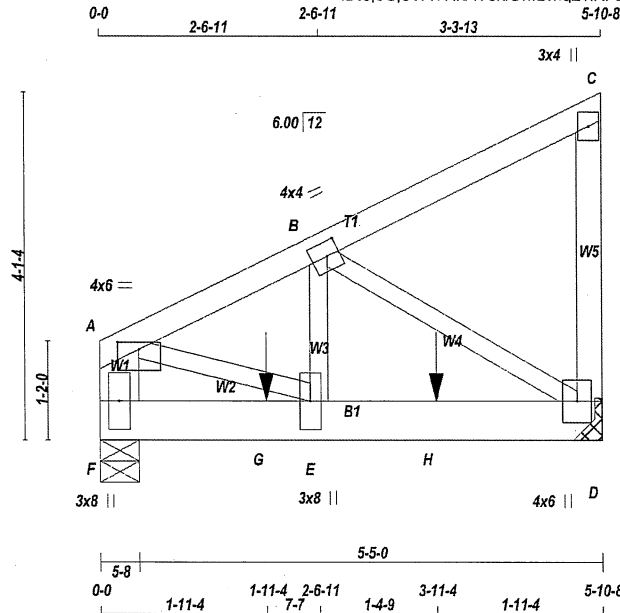
STRUCTURAL COMPONENT ONLY

DWG # TR22080202

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427574   | T23        | 1        | 2   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

Version 8.530 S Feb 23 2022 MiTek Industries, Inc. Tue Aug 2 11:57:43 2022 Page 1  
ID:ej0CjeYAVHxAVskiOhfBmqz1lKf-LKrm8Azp5umVDkWF0qnLL13k?SxSV94BiuAYVLXyrWw6



TOTAL WEIGHT = 2 X 29 = 58 lb

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

ALL WEBS 2x3 DRY No.2 SPF  
EXCEPT

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |           |
| A - C 1                                  | 12                   | TOP       |
| D - C 1                                  | 12                   | TOP       |
| F - A 2                                  | 12                   | TOP       |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| F - D 2                                  | 12                   | SIDE(0.0) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |           |
| 2x3 1                                    | 6                    |           |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X         |
|---------|--------|------|-----|-----|-----------|
| A       | TMVW-p | MT20 | 4.0 | 6.0 | 1.00 3.00 |

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

#### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | UPLIFT    |
| D  | 1160                    | 0                               | 1160      | 0         |
| F  | 1160                    | 0                               | 1160      | 0         |

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

#### UNFACTORED REACTIONS

|    | 1ST CASE | MAX./MIN. | COMPONENT REACTIONS |
|----|----------|-----------|---------------------|
| JT | COMBINED | SNOW      | LIVE                |
| D  | 815      | 566 / 0   | 0 / 0               |
| F  | 815      | 566 / 0   | 0 / 0               |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX  | MAX. UNBRACED LENGTH | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|--------|---------------------------|---------------------------|----------|----------------------|-------|---------------------------|----------------------|
| FR-TO  |                           | FROM TO                   |          |                      | FR-TO |                           |                      |
| A - B  | -1328 / 0                 | -95.2 -95.2               | 0.07 (1) | 6.25                 | E - B | 0 / 1007                  | 0.12 (1)             |
| B - C  | -11 / 0                   | -95.2 -95.2               | 0.07 (1) | 6.25                 | B - D | -1410 / 0                 | 0.18 (1)             |
| D - C  | -134 / 0                  | 0.0 0.0                   | 0.02 (1) | 7.81                 | A - E | 0 / 1254                  | 0.16 (1)             |
| F - A  | -1054 / 0                 | 0.0 0.0                   | 0.04 (1) | 7.81                 |       |                           |                      |
| F - G  | 0 / 0                     | -18.5 -18.5               | 0.11 (1) | 10.00                |       |                           |                      |
| G - E  | 0 / 0                     | -18.5 -18.5               | 0.11 (1) | 10.00                |       |                           |                      |
| E - H  | 0 / 1200                  | -18.5 -18.5               | 0.27 (1) | 10.00                |       |                           |                      |
| H - D  | 0 / 1200                  | -18.5 -18.5               | 0.27 (1) | 10.00                |       |                           |                      |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| G  | 1-11-4 | -579 | -579 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| H  | 3-11-4 | -579 | -579 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 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 (0.02")

CSI: TC=0.07/1.00 (B-C:1), BC=0.27/1.00 (D-E:1), WB=0.18/1.00 (B-D:1), SSI=0.25/1.00 (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

AUTOSOLVE RIGHT HEEL ONLY

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

#### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (E) (INPUT = 0.90 )

JSI METAL= 0.36 (E) (INPUT = 1.00 )

CONTINUED ON PAGE 2



STRUCTURAL COMPONENT ONLY  
DWG # TR22080203 PG 1/2

|                                 |            |             |     |                 |          |
|---------------------------------|------------|-------------|-----|-----------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY    | PLY | JOB DESC.       | DRWG NO. |
| 427574                          | T23        | 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    |
|----|---------|--------|-----|-----|------|------|
| B  | TMWW-t  | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| C  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |      |      |
| E  | BMWW+t  | MT20   | 3.0 | 8.0 |      |      |
| F  | BMV1+p  | MT20   | 3.0 | 8.0 |      |      |

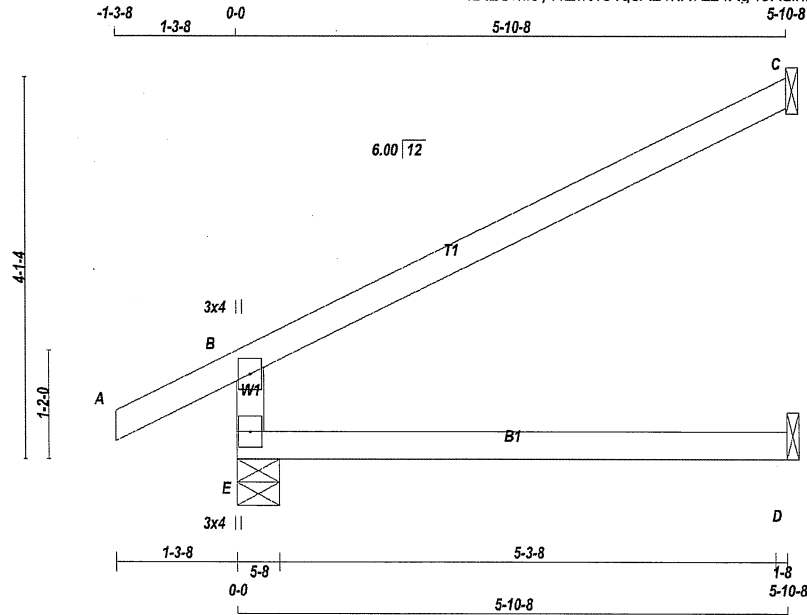
**NOTES-** (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.



|                    |                  |               |          |                              |          |
|--------------------|------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427546 | TRUSS NAME<br>J1 | QUANTITY<br>7 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|------------------|---------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale: 1/2"=1'

TOTAL WEIGHT = 7 X 17 = 118 lb [M]

#### LUMBER

N. L. G. A. RULES

| CHORDS | SIZE | DRY | 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 IN-SX | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| E  | 542                     | 0    | 542                             | 0    | 5-8             | 5-8             |
| C  | 210                     | 0    | 210                             | 0    | 1-8             | 1-8             |
| D  | 45                      | 0    | 50                              | 0    | 1-8             | 1-8             |

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| JT | 1ST LOASE COMBINED | MAX/MIN. COMPONENT REACTIONS |       |           |       |         |
|----|--------------------|------------------------------|-------|-----------|-------|---------|
|    |                    | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD    |
| E  | 380                | 269 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 111 / 0 |
| C  | 144                | 118 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 26 / 0  |
| D  | 36                 | 0 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 36 / 0  |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                  | WEBS  |                           |               |                     |
|--------|---------------------------|---------------------------|------------------|-------|---------------------------|---------------|---------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) | UNBRAC LENGTH FR-TO |
| FR-TO  |                           | FROM TO                   |                  | FR-TO |                           |               |                     |
| E-B    | -479 / 0                  | 0.0                       | 0.0 0.13 (4)     | 7.81  |                           |               |                     |
| A-B    | 0 / 29                    | -95.2                     | -95.2 0.12 (1)   | 10.00 |                           |               |                     |
| B-C    | -31 / 0                   | -95.2                     | -95.2 0.56 (1)   | 6.25  |                           |               |                     |
| E-D    | 0 / 0                     | -18.5                     | -18.5 0.13 (4)   | 10.00 |                           |               |                     |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 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=0.56/1.00 (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 (PSI) | 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.

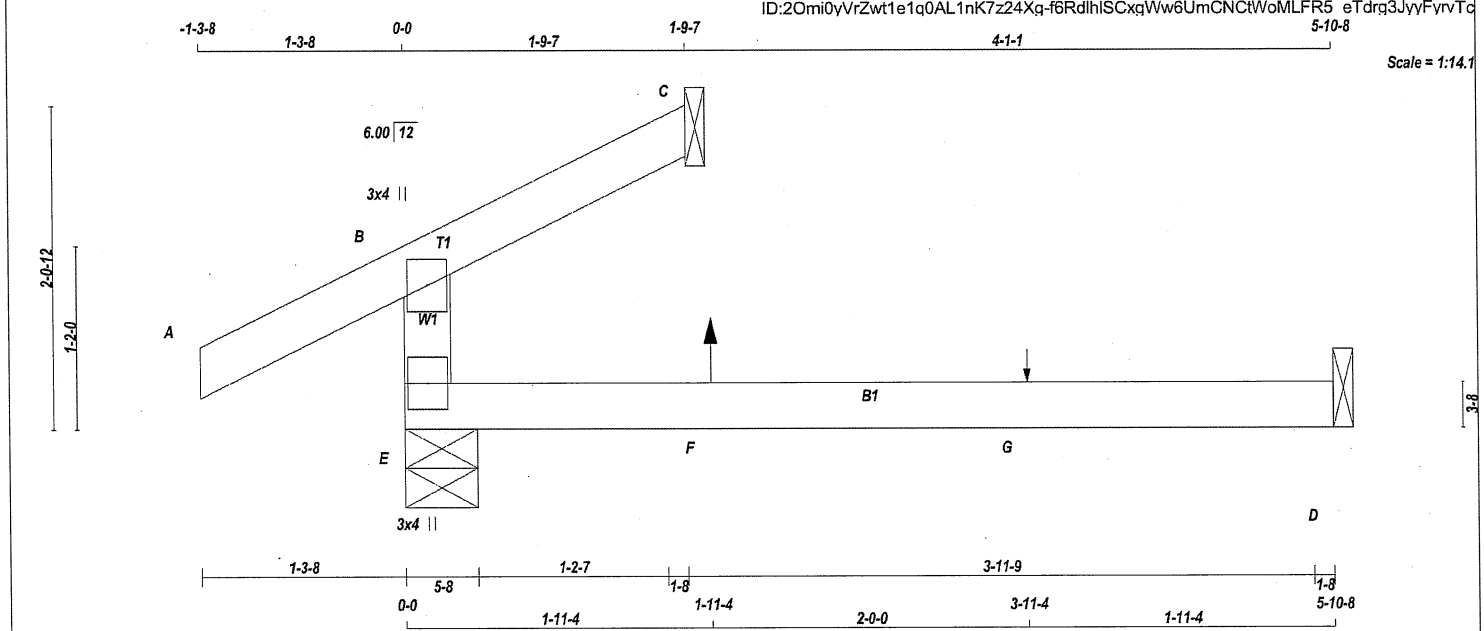
JSI GRIP= 0.19 (E) (INPUT = 0.90 )  
JSI METAL= 0.13 (B) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080160

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427546   | J2         | 2        | 1   | TRUSS DESC. |                 |          |

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TOTAL WEIGHT = 2 X 12 = 23 lb

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG |       | REQRD BRG |       |
|----|-------------------------|------|---------------------------------|------|-----------|-------|-----------|-------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX | IN-SX     | IN-SX |
| E  | 293                     | 0    | 293                             | 0    | 5-8       | 5-8   | 5-8       | 5-8   |
| C  | 64                      | 0    | 64                              | 0    | 1-8       | 1-8   | 1-8       | 1-8   |
| D  | 43                      | 0    | 52                              | 0    | 1-8       | 1-8   | 1-8       | 1-8   |

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | SNOW    | MAX/MIN. LIVE | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|---------|---------------|------------|-------|--------|-------|
| E  | 206       | 144 / 0 | 0 / 0         | 0 / 0      | 0 / 0 | 62 / 0 | 0 / 0 |
| C  | 47        | 22 / 0  | 0 / 0         | 0 / 0      | 0 / 0 | 25 / 0 | 0 / 0 |
| D  | 35        | 0 / -3  | 0 / 0         | 0 / 0      | 0 / 0 | 37 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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: (7)

| MEMB. | CHORDS        |             | WEBS          |             | MEMB. | MAX. FACTORED |             |
|-------|---------------|-------------|---------------|-------------|-------|---------------|-------------|
|       | MAX. FACTORED | FORCE (LBS) | MAX. FACTORED | FORCE (LBS) |       | MAX. FACTORED | FORCE (LBS) |
| FR-TO | FROM          | TO          | FROM          | TO          | FR-TO | FROM          | TO          |
| E-B   | -237 / 0      | 0.0         | 0.0           | 0.11 (4)    | 7.81  |               |             |
| A-B   | 0 / 29        | -95.2       | -95.2         | 0.12 (1)    | 10.00 |               |             |
| B-C   | -10 / 9       | -95.2       | -95.2         | 0.08 (4)    | 6.25  |               |             |
| E-F   | 0 / 0         | -18.5       | -18.5         | 0.14 (4)    | 10.00 |               |             |
| F-G   | 0 / 0         | -18.5       | -18.5         | 0.14 (4)    | 10.00 |               |             |
| G-D   | 0 / 0         | -18.5       | -18.5         | 0.14 (4)    | 10.00 |               |             |

#### 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 = | 26.7 | PSF |
|            | DL = | 6.0  | PSF |
| BOT CH.    | LL = | 0.0  | PSF |
|            | DL = | 7.4  | PSF |
| TOTAL LOAD | =    | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

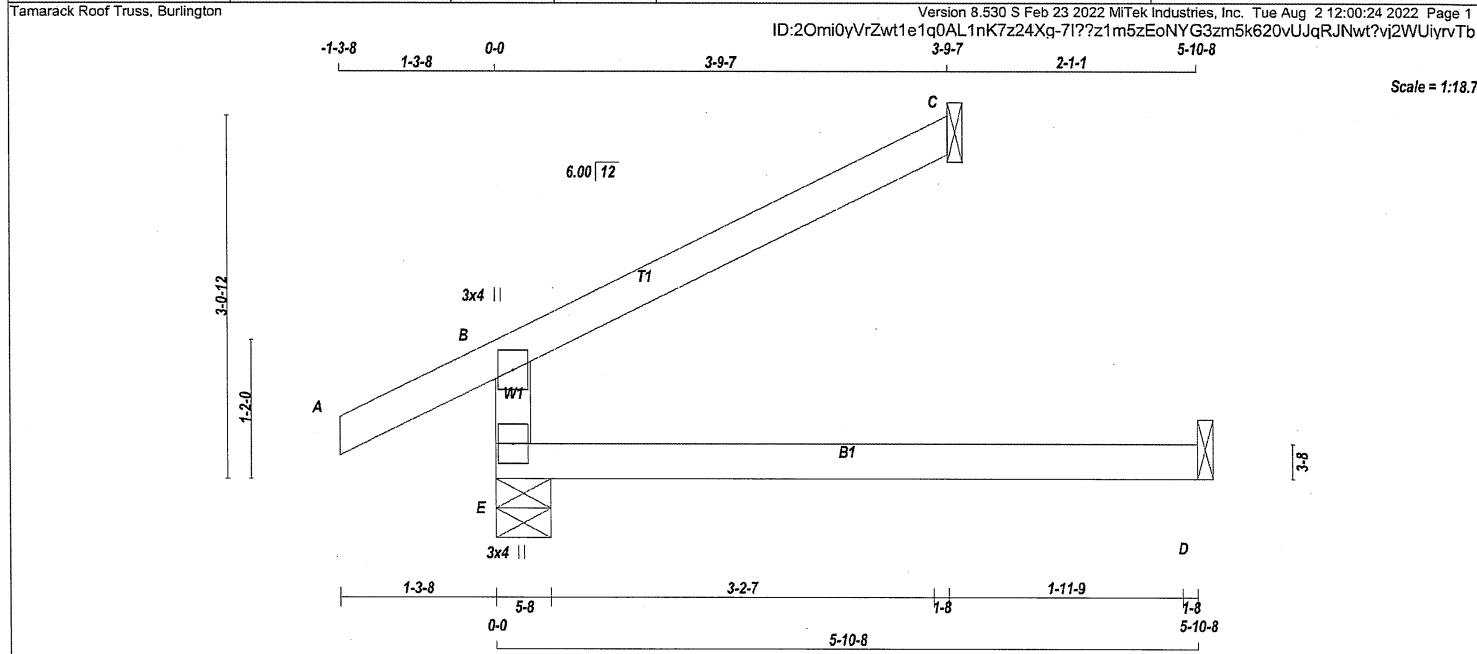
JSI GRIP= 0.09 (E) (INPUT = 0.90)

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



STRUCTURAL COMPONENT ONLY  
DWG # TR22080161

|                    |                  |               |          |                              |          |
|--------------------|------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427546 | TRUSS NAME<br>J3 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|------------------|---------------|----------|------------------------------|----------|



TOTAL WEIGHT = 2 X 14 = 28 lb

**LUMBER**

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

**PLATES** (table is in inches)

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

**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 | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
|    | VERT                    | HORZ                            | DOWN      | HORZ      |
| E  | 418                     | 0                               | 418       | 0         |
| C  | 135                     | 0                               | 135       | 0         |
| D  | 45                      | 0                               | 50        | 0         |

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|---------|-------|-----------|-------|--------|-------|
| E  | 295       | 199 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 96 / 0 | 0 / 0 |
| C  | 93        | 76 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 17 / 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, 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 VERT. LOAD (PLF) | LC1 MAX (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC) |
|-------|--------|---------------------------|---------------------------|--------------|----------|---------------------------|---------------------------|--------------|
| FR-TO |        |                           |                           |              | FR-TO    |                           |                           |              |
| E-B   |        | -354 / 0                  | 0.0                       | 0.0          | 0.13 (4) | 7.81                      |                           |              |
| A-B   |        | 0 / 29                    | -95.2                     | -95.2        | 0.12 (1) | 10.00                     |                           |              |
| B-C   |        | -20 / 0                   | -95.2                     | -95.2        | 0.23 (1) | 6.25                      |                           |              |
| E-D   |        | 0 / 0                     | -18.5                     | -18.5        | 0.13 (4) | 10.00                     |                           |              |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH. LL = 26.7 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 40.1 PSF

**SPACING = 24.0 IN./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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

**DESIGN ASSUMPTIONS**

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 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=0.23/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.16/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------|-----------|-------------|---------------|
| MT20  | 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= 0.10 (B) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080162

Tamarack Roof Truss, Burlington

ID:2OmiQyVrZwt1e1q0AL1nK7z24Xg-cUZOANnjYwEAQE9KoFLbDRhkEp?6N788No308yvrvTa

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Scale = 1:13.6

The diagram shows a gable-style roof truss. The main rafters are labeled A-C and B-D. Vertical supports at joints E and D are shown with cross-bracing. Horizontal bracing includes T1 at joint C and W1 between joints B and E. Dimensions include rafter lengths of -1-3-8, 1-3-8, 0-0, 1-9-7, 1-9-7, and 1-10-8. Vertical heights are 2'-0"-12" from support E to peak C, and 1'-2-0" from support D to peak C. Member sizes are specified as 3x4 || for rafters and verticals, and 2x4 for horizontal bracing. Connections at joints C and D show bolted end plates.

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  
SPF  
DRY; SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER  
BEARINGS  
FACTORED MAXIMUM FACTORED INPUT REQD  
GROSS REACTION GROSS REACTION BRG BRG  
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX  
C 280 0 280 0 0 5-8 5-8  
E 46 0 46 0 -24 1-8 1-8  
D 8 0 17 0 -2 1-8 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  
1ST LCASE MAX./MIN. COMPONENT REACTIONS  
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL  
E 195 148 / 0 0 / 0 0 / 0 0 / 0 47 / 0 0 / 0  
C 32 25 / -19 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 WEBS  
MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX.  
(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)  
FR-TO FROM TO  
E-B -253 / 0 0.0 0.0 0.04 (5) 7.81  
A-B 0 / 29 -95.2 -95.2 0.12 (1) 10.00  
B-C -17 / 0 -95.2 -95.2 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

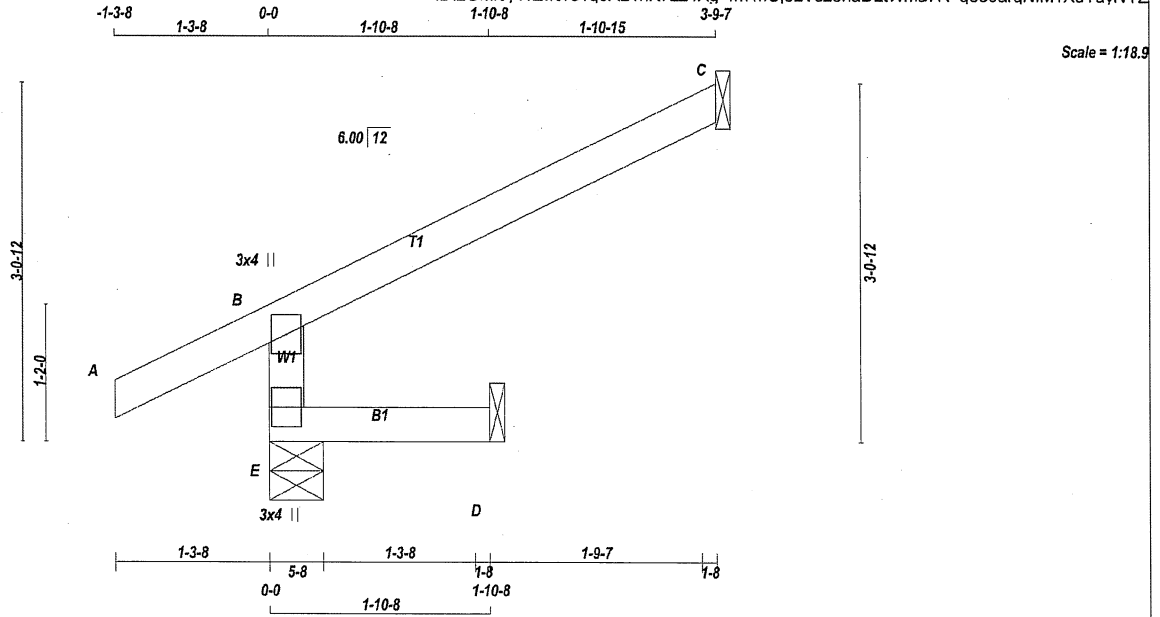
DESIGN CRITERIA  
SPECIFIED LOADS:  
TOP CH. LL = 26.7 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 40.1 PSF  
SPACING = 24.0 IN. C/C  
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015  
THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018 , ABC 2019  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014  
DESIGN ASSUMPTIONS  
- OVERHANG NOT TO BE ALTERED OR CUT OFF.  
(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD  
ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")  
CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5)  
, WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)  
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10  
COMPANION LIVE LOAD FACTOR = 1.00  
AUTOSOLVE RIGHT HEEL ONLY  
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .  
NAIL VALUES  
PLATE GRIP(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= 0.10 (E) (INPUT = 0.90 )  
JSI METAL= 0.07 (B) (INPUT = 1.00 )

LICENSED PROFESSIONAL ENGINEER  
8/02/22  
C. M. HEYENS  
100505065  
CHANGE  
PROVINCE OF ONTARIO

STRUCTURAL COMPONENT ONLY  
DWG # TR22080163

|                                 |                  |               |          |                              |          |
|---------------------------------|------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427546              | TRUSS NAME<br>J5 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                  |               |          |                              |          |

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TOTAL WEIGHT = 2 X 10 = 19 lb

| LUMBER |      |        |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                |                  |       | DESIGN CRITERIA |                   |     |  |
|--------|------|--------|--------|-----------------------------------------------------------------------------------------------|----------------|------------------|-------|-----------------|-------------------|-----|--|
| CHORDS | SIZE | LUMBER | DESCR. | BEARINGS                                                                                      | FACTORED       | MAXIMUM FACTORED | INPUT | REQRD           | SPECIFIED LOADS:  |     |  |
| E - B  | 2x4  | DRY    | No.2   | SPF                                                                                           | GROSS REACTION | GROSS REACTION   | BRG   | BRG             | TOP CH. LL = 26.7 | PSF |  |
| A - C  | 2x4  | DRY    | No.2   | SPF                                                                                           | VERT           | DOWN             | HORZ  | IN-SX           | DL = 6.0          | PSF |  |
| E - D  | 2x4  | DRY    | No.2   | SPF                                                                                           | E              | 374              | 0     | 5-8             | BOT CH. LL = 0.0  | PSF |  |
|        |      |        |        |                                                                                               | C              | 135              | 0     | 1-8             | DL = 7.4          | PSF |  |
|        |      |        |        |                                                                                               | D              | 16               | 0     | 1-8             | TOTAL LOAD = 40.1 | PSF |  |

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.

SEE MITTEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX / MIN | COMPONENT REACTIONS |       |       |        |       |
|----|----------|-----------|---------------------|-------|-------|--------|-------|
| E  | 259      | 199 / 0   | 0 / 0               | 0 / 0 | 0 / 0 | 60 / 0 | 0 / 0 |
| C  | 93       | 76 / 0    | 0 / 0               | 0 / 0 | 0 / 0 | 17 / 0 | 0 / 0 |
| D  | 12       | 0 / 0     | 0 / 0               | 0 / 0 | 0 / 0 | 12 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| CHORDS |                           |                           |              | WEBS     |                           |              |                     |
|--------|---------------------------|---------------------------|--------------|----------|---------------------------|--------------|---------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX LC1 (LC) | UNBRAC LENGTH FR-TO |
| FR-TO  |                           | FROM                      | TO           | FR-TO    |                           |              |                     |
| E-B    | -354 / 0                  | 0.0                       | 0.0          | 0.01 (4) | 7.81                      |              |                     |
| A-B    | 0 / 29                    | -95.2                     | -95.2        | 0.13 (5) | 10.00                     |              |                     |
| B-C    | -20 / 0                   | -95.2                     | -95.2        | 0.23 (1) | 6.25                      |              |                     |
| E-D    | 0 / 0                     | -18.5                     | -18.5        | 0.02 (4) | 10.00                     |              |                     |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN



STRUCTURAL COMPONENT ONLY  
DWG # TR22080164

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")

CS: TC=0.23/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.16/1.00 (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.

| PLATE 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

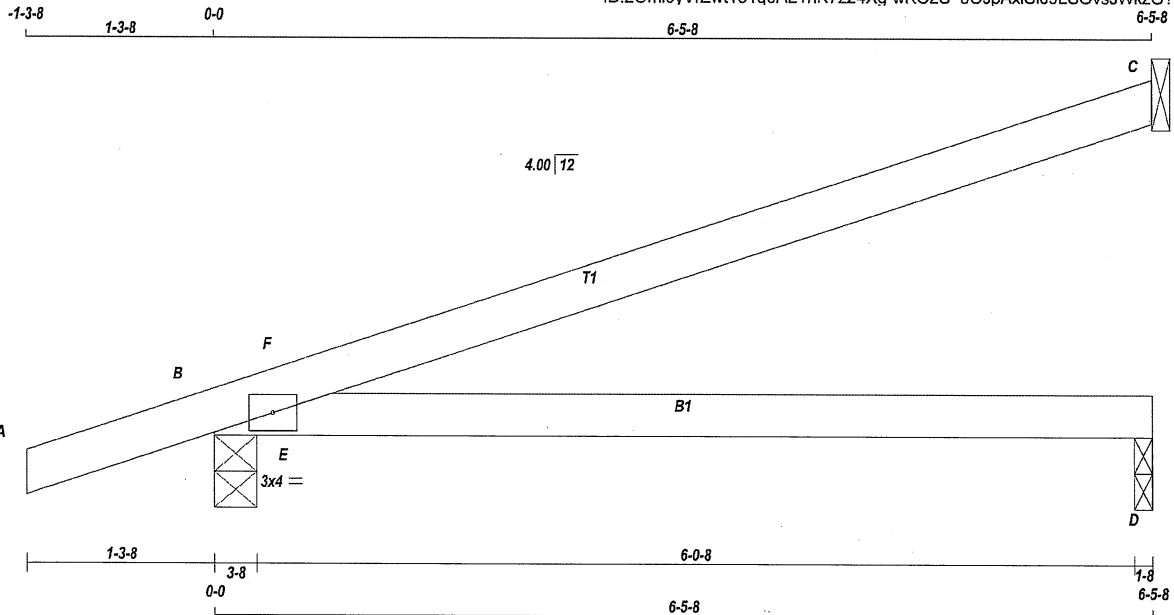
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90 )  
JSI METAL= 0.10 (B) (INPUT = 1.00 )

|                    |                  |               |          |                              |          |
|--------------------|------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427546 | TRUSS NAME<br>J6 | QUANTITY<br>5 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|------------------|---------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 5 X 17 = 84 lb

| LUMBER                |      |     |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |                |                  |       | DESIGN CRITERIA |                  |      |     |
|-----------------------|------|-----|--------|-----------------------------------------------------------------------------------------------|----------------|------------------|-------|-----------------|------------------|------|-----|
| N. L. G. A. RULES     | SIZE | DRY | LUMBER | DESCR.                                                                                        | FACTORED       | MAXIMUM FACTORED | INPUT | REQRD           | SPECIFIED LOADS: |      |     |
| CHORDS                |      |     | No.2   | SPF                                                                                           | GROSS REACTION | GROSS REACTION   | BRG   | BRG             | TOP CH. LL =     | 26.7 | PSF |
| A - C                 | 2x4  | DRY | No.2   | SPF                                                                                           | VERT           | DOWN             | IN-SX | IN-SX           | DL =             | 6.0  | PSF |
| B - D                 | 2x4  | DRY | No.2   | SPF                                                                                           | HORZ           | HORZ             | IN-SX | IN-SX           | BOT CH. LL =     | 0.0  | PSF |
| DRY: SEASONED LUMBER. |      |     |        |                                                                                               |                |                  |       |                 | DL =             | 7.4  | PSF |
|                       |      |     |        |                                                                                               |                |                  |       |                 | TOTAL LOAD =     | 40.1 | PSF |

| PLATES (table is in inches) |        |      |     |     |
|-----------------------------|--------|------|-----|-----|
| JT TYPE                     | PLATES | W    | LEN | Y X |
| B                           | TMB1-I | MT20 | 3.0 | 4.0 |

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

SEE MITTEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C

| UNFACTORED REACTIONS |           |         |                     |       |       |         |       |
|----------------------|-----------|---------|---------------------|-------|-------|---------|-------|
| JT                   | 1ST LCASE | MAX/MIN | COMPONENT REACTIONS |       |       |         |       |
| C                    | 186       | 146 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 40 / 0  | 0 / 0 |
| B                    | 347       | 244 / 0 | 0 / 0               | 0 / 0 | 0 / 0 | 103 / 0 | 0 / 0 |
| D                    | 73        | 27 / 0  | 0 / 0               | 0 / 0 | 0 / 0 | 47 / 0  | 0 / 0 |

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

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

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

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

| CHORDS |                           |                           |                | WEBS  |                           |               |               |
|--------|---------------------------|---------------------------|----------------|-------|---------------------------|---------------|---------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. LC1 (LC) | UNBRAC LENGTH |
| FR-TO  |                           |                           |                | FR-TO |                           |               |               |
| A-B    | 0 / 19                    | -95.2                     | -95.2 0.12 (1) | E-F   | -408 / 15                 | 0.00 (1)      | 10.00         |
| B-F    | -22 / 32                  | -95.2                     | -95.2 0.08 (1) |       |                           |               | 6.25          |
| F-C    | -3 / 2                    | -95.2                     | -95.2 0.51 (1) |       |                           |               | 10.00         |
| B-E    | 0 / 0                     | -18.5                     | -18.5 0.35 (1) |       |                           |               | 10.00         |
| E-D    | 0 / 0                     | -18.5                     | -18.5 0.35 (1) |       |                           |               | 10.00         |

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 OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.22")  
CALCULATED VERT. DEFL.(LL)= L/733 (0.11")  
ALLOWABLE DEFL.(TL)= L/360 (0.22")  
CALCULATED VERT. DEFL.(TL)= L/362 (0.21")

CSI: TC=0.51/1.00 (C-F:1), BC=0.35/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.33/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (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= 0.33 (B) (INPUT = 0.90 )  
JSI METAL= 0.08 (B) (INPUT = 1.00 )

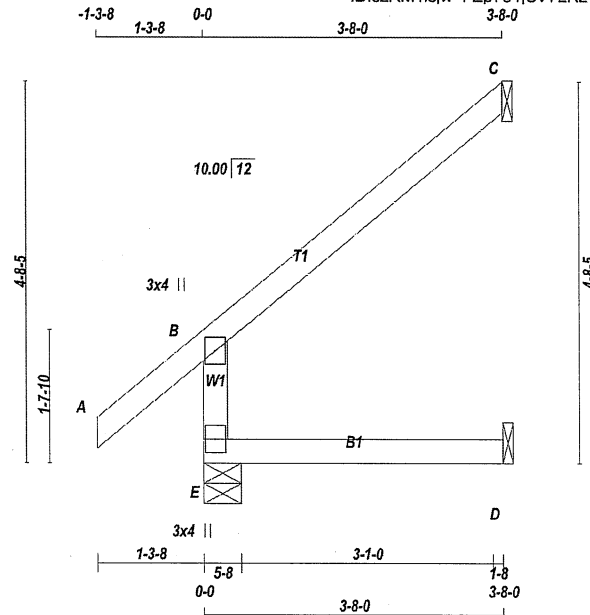


STRUCTURAL COMPONENT ONLY  
DWG # TR22080170



|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427556              | TRUSS NAME<br>J21 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                              |          |

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Scale = 1:27.2

TOTAL WEIGHT = 13 lb

| LUMBER            |        |      |        | DESCR. | SPF |
|-------------------|--------|------|--------|--------|-----|
| 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**

**BEARINGS**

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQRD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|-----------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX     |
| E  | 388                     | 0    | 388                             | 0    | 5-8       | 5-8       |
| C  | 131                     | 0    | 131                             | 0    | 1-8       | 1-8       |
| D  | 30                      | 0    | 33                              | 0    | 1-8       | 1-8       |

SEE MITTEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX/MIN. COMPONENT REACTIONS |       |           |       |        |       |
|----|--------------------|------------------------------|-------|-----------|-------|--------|-------|
|    |                    | SNOW                         | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| E  | 271                | 196 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 75 / 0 | 0 / 0 |
| C  | 90                 | 74 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 17 / 0 | 0 / 0 |
| D  | 24                 | 0 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 24 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (5)

| CHORDS |                           |                           |               | WEBS                 |       |                           |           |
|--------|---------------------------|---------------------------|---------------|----------------------|-------|---------------------------|-----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. (LC) |
| FR-TO  |                           | FROM                      | TO            |                      | FR-TO |                           |           |
| E-B    | -350 / 0                  | 0.0                       | 0.0           | 0.04 (4)             | 7.81  |                           |           |
| A-B    | 0 / 42                    | -95.2                     | -95.2         | 0.15 (5)             | 10.00 |                           |           |
| B-C    | -28 / 0                   | -95.2                     | -95.2         | 0.22 (1)             | 6.25  |                           |           |
| E-D    | 0 / 0                     | -18.5                     | -18.5         | 0.06 (4)             | 10.00 |                           |           |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | PSF |

**SPACING = 24.0 IN./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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.06/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

**NAIL VALUES**

| PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) | (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= 0.16 (B) (INPUT = 0.90 )

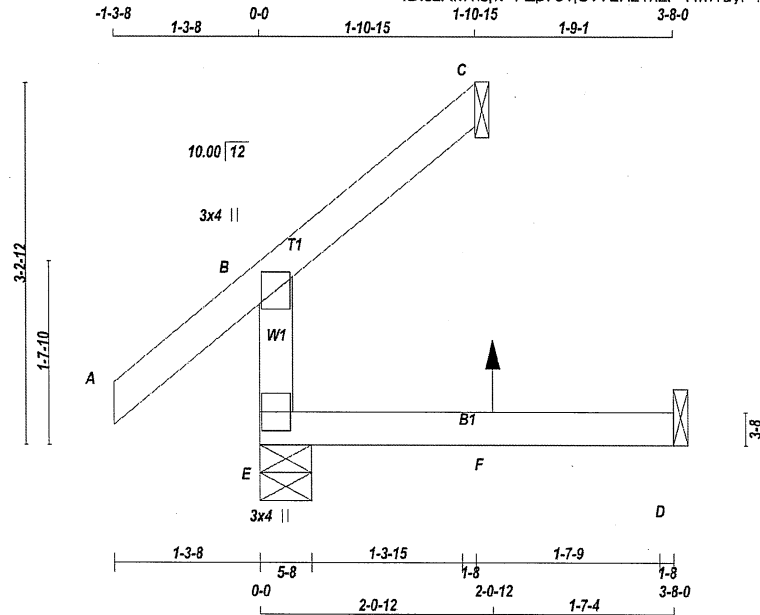
JSI METAL= 0.12 (B) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080177

|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427556              | TRUSS NAME<br>J22 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                              |          |

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ID:szRM1lsiw FZp751jUvY2Kz1nzP-7fm1uyP46kUcOynVFNNvV?W1dJ ItFQn 85K1dyrvig



Scale = 1:19.8

TOTAL WEIGHT = 11 lb

| LUMBER            |        |      |        | DESCR. | SPF |
|-------------------|--------|------|--------|--------|-----|
| 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**

| FACTORED       |      | MAXIMUM FACTORED |      | INPUT |       | REQRD |       |
|----------------|------|------------------|------|-------|-------|-------|-------|
| GROSS REACTION |      | GROSS REACTION   |      | BRG   |       | BRG   |       |
| JT             | VERT | JT               | DOWN | JT    | IN-SX | JT    | IN-SX |
| E              | 296  | E                | 296  | E     | 5-8   | E     | 5-8   |
| C              | 55   | C                | 55   | C     | 1-8   | C     | 1-8   |
| D              | 24   | D                | 34   | D     | 1-8   | D     | 1-8   |

SEE MITTEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

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

**UNFACTORED REACTIONS**

| 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |       |           |       |        |       |
|-----------|-----------|---------------------|-------|-----------|-------|--------|-------|
| JT        | COMBINED  | SNOW                | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| E         | 207       | 149 / 0             | 0 / 0 | 0 / 0     | 0 / 0 | 59 / 0 | 0 / 0 |
| C         | 38        | 27 / -20            | 0 / 0 | 0 / 0     | 0 / 0 | 11 / 0 | 0 / 0 |
| D         | 20        | 0 / -6              | 0 / 0 | 0 / 0     | 0 / 0 | 24 / 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: (9)

| CHORDS |          | WEBS  |          |
|--------|----------|-------|----------|
| MEMB.  | FORCE    | MEMB. | FORCE    |
| (LBS)  | (LBS)    | (LBS) | (LBS)    |
| FR-TO  | FR-TO    | FR-TO | FR-TO    |
| E-B    | -260 / 0 | E-B   | -260 / 0 |
| A-B    | 0 / 42   | A-B   | 0 / 42   |
| B-C    | -24 / 0  | B-C   | -24 / 0  |
| E-F    | 0 / 0    | E-F   | 0 / 0    |
| F-D    | 0 / 0    | F-D   | 0 / 0    |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|-------|------|-------|------|-------|
| F  | 2-0-12 | 4   | 1    | 8    | FRONT | VERT | TOTAL | -    | C1    |

**CONNECTION REQUIREMENTS**

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.15/1.00 (A-B:5), BC=0.06/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:5)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

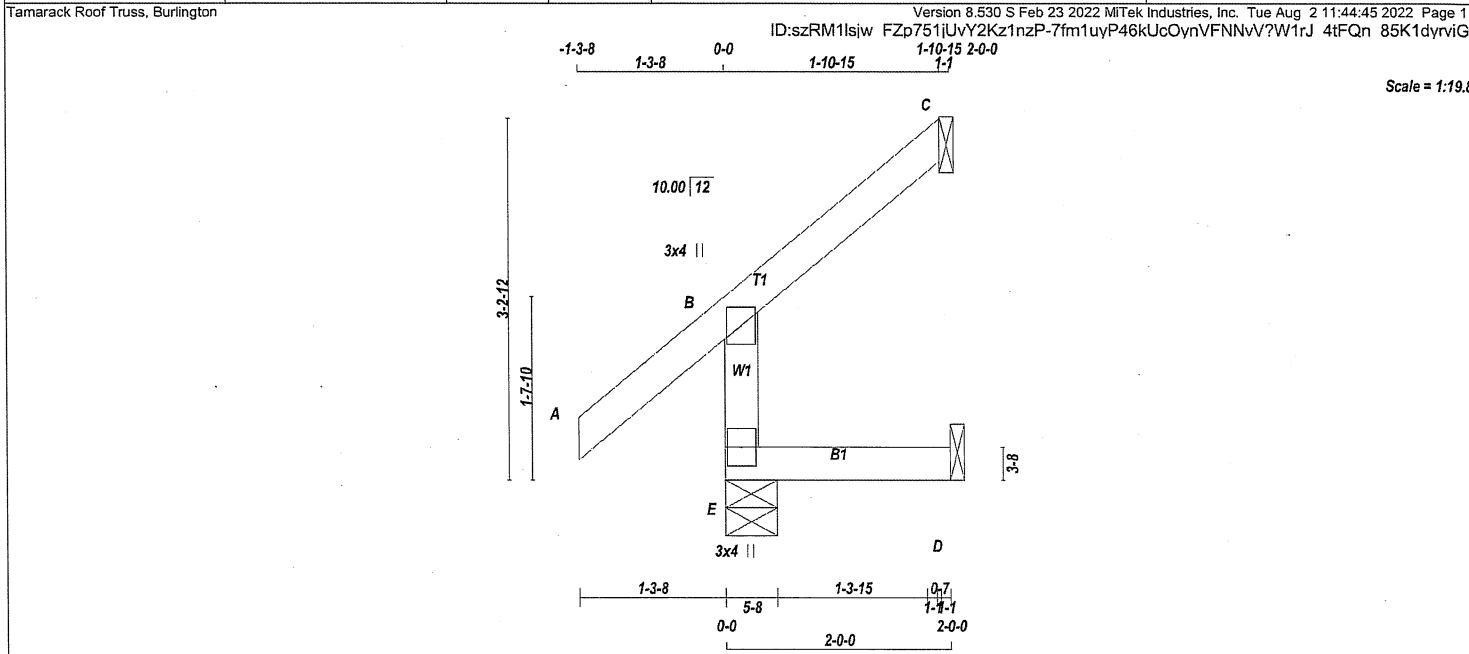
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (B) (INPUT = 0.90 )  
JSI METAL= 0.09 (B) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080178

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427556   | J23        | 1        | 1   | TRUSS DESC. |                 |          |

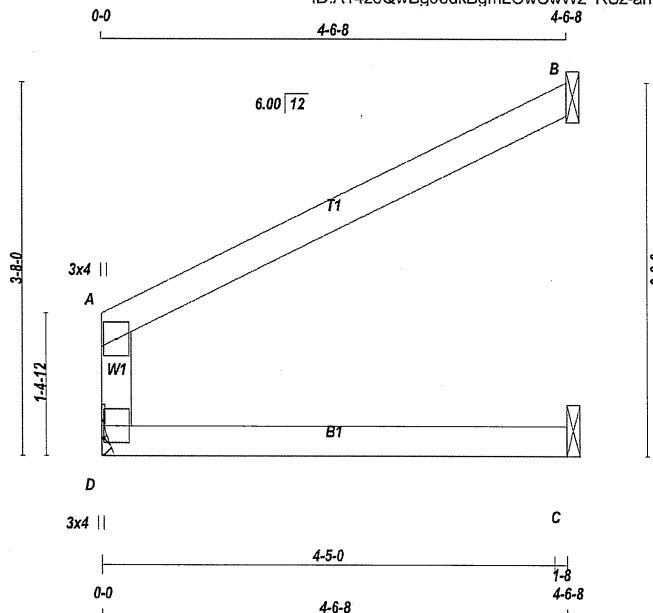


|                                                                                                                                                                    |  |  |  |                                                                                                                                                                                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                      |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------|--|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR. SPF<br>E - B 2x4 DRY No.2<br>A - C 2x4 DRY No.2<br>E - D 2x4 DRY No.2<br><br>DRY: SEASONED LUMBER. |  |  |  | <b>PLATES (table is in inches)</b><br>JT TYPE PLATES W LEN Y X<br>B TMV+p MT20 3.0 4.0<br>E BMV1+p MT20 3.0 4.0<br><br><b>NOTES-</b> (1)<br>1) Lateral braces to be a minimum of 2X4 SPF #2. |  |  |  | <b>DESIGN CRITERIA</b><br><br>SPECIFIED LOADS:<br>TOP CH. LL = 26.7 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 40.1 PSF<br><br><b>SPACING = 24.0 IN./C</b><br><br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015<br><br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF BCBC 2018 , ABC 2019<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br><br>DESIGN ASSUMPTIONS<br>-OVERHANG NOT TO BE ALTERED OR CUT OFF.<br><br>(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD<br><br>ALLOWABLE DEFL.(LL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")<br>ALLOWABLE DEFL.(TL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")<br><br>CSI: TC=0.13/1.00 (A-B:1) , BC=0.04/1.00 (D-E:5) , WB=0.00/1.00 (n/a:0) , SSI=0.08/1.00 (A-B:1)<br><br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10<br>COMP=1.10 SHEAR=1.10 TENS= 1.10<br><br>COMPANION LIVE LOAD FACTOR = 1.00<br><br>AUTOSOLVE RIGHT HEEL ONLY<br><br>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .<br><br>NAIL VALUES<br>PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)<br>MAX MIN MAX MIN MAX MIN<br>MT20 650 371 1747 788 1987 1873<br><br>PLATE PLACEMENT TOL. = 0.250 inches<br><br>PLATE ROTATION TOL. = 5.0 Deg.<br><br>JSI GRIP= 0.12 (B) (INPUT = 0.90 )<br>JSI METAL = 0.09 (B) (INPUT = 1.00 ) |  |  |  | <b>STRUCTURAL COMPONENT ONLY</b><br>DWG # TR22080179 |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------|--|--|--|

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427574   | J31A       | 3        | 1   | TRUSS DESC. |                 |          |

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ID:A14z6QwBq06dkBgmLQwCwWz RSz-anH7VEj4mJVMmleUM5CTINPbKilmHV172xc33?yrWWE



Scale = 1:21.7

TOTAL WEIGHT = 3 X 12 = 37 lb

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

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**

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |            | REQRD |       |
|----------|----------------|----------|------|------------------|------|-------|------------|-------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | UP    | IN-SX      | BRG   | IN-SX |
| D        | 258            | 0        | 0    | 258              | 0    | 0     | MECHANICAL |       |       |
| B        | 199            | 0        | 0    | 199              | 0    | 0     | 1-8        | 1-8   |       |
| C        | 60             | 0        | 0    | 60               | 0    | 0     | 1-8        | 1-8   |       |

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

SEE MITTEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B , C

| UNFACTORED REACTIONS |          | 1ST LCASE |       | MAX./MIN. COMPONENT REACTIONS |       |        |       |  |  |
|----------------------|----------|-----------|-------|-------------------------------|-------|--------|-------|--|--|
| JT                   | COMBINED | SNOW      | LIVE  | PERM.LIVE                     | WIND  | DEAD   | SOIL  |  |  |
| D                    | 182      | 121 / 0   | 0 / 0 | 0 / 0                         | 0 / 0 | 61 / 0 | 0 / 0 |  |  |
| B                    | 137      | 109 / 0   | 0 / 0 | 0 / 0                         | 0 / 0 | 28 / 0 | 0 / 0 |  |  |
| C                    | 45       | 12 / 0    | 0 / 0 | 0 / 0                         | 0 / 0 | 33 / 0 | 0 / 0 |  |  |

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

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

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

| CHORDS |             | FACTORED   |         | WEBS     |             | MAX. FACTORED |          |
|--------|-------------|------------|---------|----------|-------------|---------------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX | MEMB.    | FORCE (LBS) | MAX. FACTORED | CS1 (LC) |
| FR-TO  |             | FROM       | TO      | FR-TO    |             |               |          |
| D-A    | -234 / 0    | 0.0        | 0.0     | 0.09 (1) | 7.81        |               |          |
| A-B    | -8 / 0      | -95.2      | -95.2   | 0.27 (1) | 10.00       |               |          |
| D-C    | 0 / 0       | -18.5      | -18.5   | 0.13 (1) | 10.00       |               |          |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**  
TOP CH. LL = 26.7 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 40.1 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 OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.02")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.04")

CSI: TC=0.27/1.00 (A-B:1) , BC=0.13/1.00 (C-D:1)  
WB=0.00/1.00 (n/a:0) , SSI=0.16/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

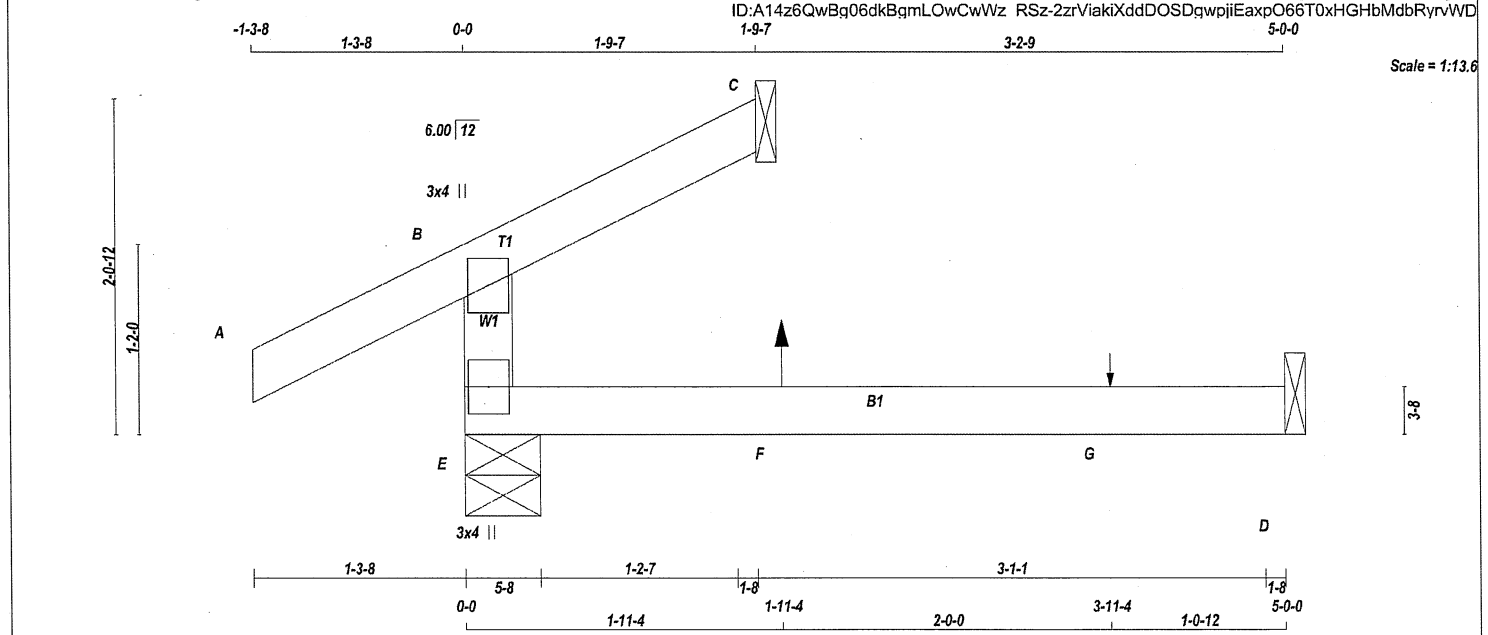
JSI GRIP= 0.09 (D) (INPUT = 0.90 )  
JSI METAL= 0.06 (A) (INPUT = 1.00 )



STRUCTURAL COMPONENT ONLY  
DWG # TR22080194

|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427574              | TRUSS NAME<br>J32 | QUANTITY<br>1 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                              |          |

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TOTAL WEIGHT = 11 lb

| LUMBER            |      |        |      | DESCR. |  |  |
|-------------------|------|--------|------|--------|--|--|
| N. L. G. A. RULES | SIZE | LUMBER |      | SPF    |  |  |
| 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 |       | REQRD BRG |       |
|----|-------------------------|------|---------------------------------|------|-----------|-------|-----------|-------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX | IN-SX     | IN-SX |
| E  | 292                     | 0    | 292                             | 0    | 5-8       | 5-8   |           |       |
| C  | 57                      | 0    | 57                              | 0    | 1-8       | 1-8   |           |       |
| D  | 36                      | 0    | 45                              | 0    | 1-8       | 1-8   |           |       |

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED |         | MAX/MIN. COMPONENT REACTIONS |       | WIND  | DEAD   | SOIL  |
|----|--------------------|---------|------------------------------|-------|-------|--------|-------|
|    | SNOW               | LIVE    | PERM.LIVE                    | WIND  |       |        |       |
| E  | 205                | 144 / 0 | 0 / 0                        | 0 / 0 | 0 / 0 | 61 / 0 | 0 / 0 |
| C  | 41                 | 22 / 0  | 0 / 0                        | 0 / 0 | 0 / 0 | 19 / 0 | 0 / 0 |
| D  | 29                 | 0 / -4  | 0 / 0                        | 0 / 0 | 0 / 0 | 32 / 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: (7)

| CHORDS |                           |                           |                | WEBS  |                           |                      |       |
|--------|---------------------------|---------------------------|----------------|-------|---------------------------|----------------------|-------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX (LC)   | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | FR-TO |
| FR-TO  |                           | FROM TO                   |                | FR-TO |                           |                      |       |
| E-B    | -244 / 0                  | 0.0                       | 0.0 0.07 (4)   |       |                           | 7.81                 |       |
| A-B    | 0 / 29                    | -95.2                     | -95.2 0.12 (1) |       |                           | 10.00                |       |
| B-C    | -13 / 5                   | -95.2                     | -95.2 0.07 (5) |       |                           | 6.25                 |       |
| E-F    | 0 / 0                     | -18.5                     | -18.5 0.10 (4) |       |                           | 10.00                |       |
| F-G    | 0 / 0                     | -18.5                     | -18.5 0.10 (4) |       |                           | 10.00                |       |
| G-D    | 0 / 0                     | -18.5                     | -18.5 0.10 (4) |       |                           | 10.00                |       |

##### 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 | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.02")

CSI: TC=0.12/1.00 (A-B:1), BC=0.10/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE   | GRIP(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.

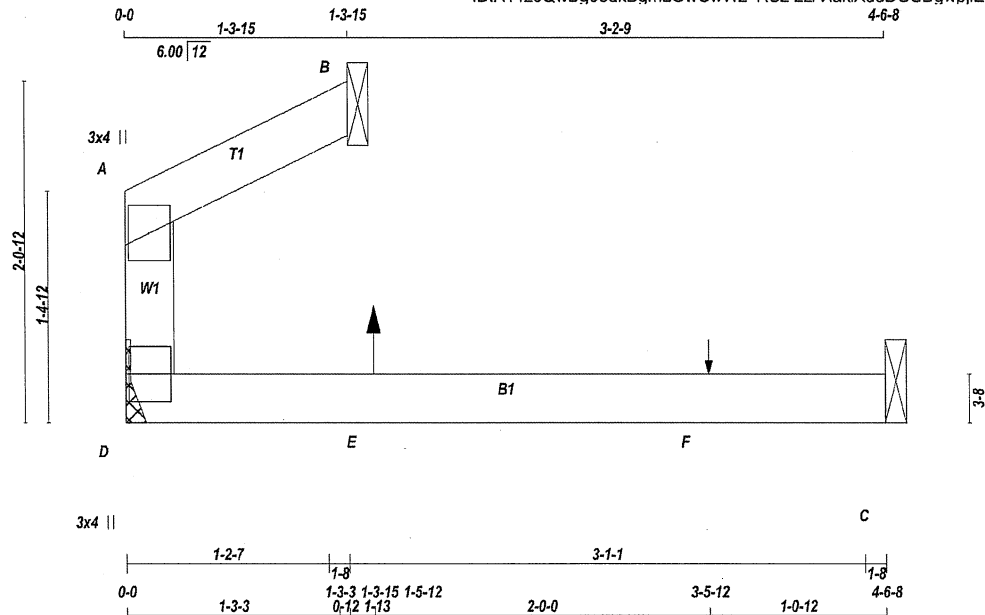
JSI GRIP= 0.10 (E) (INPUT = 0.90)  
JSI METAL = 0.07 (B) (INPUT = 1.00)



STRUCTURAL COMPONENT ONLY  
DWG # TR22080195

|                                 |                           |                      |                 |                                     |          |
|---------------------------------|---------------------------|----------------------|-----------------|-------------------------------------|----------|
| JOB NAME<br><b>427574</b>       | TRUSS NAME<br><b>J32A</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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TOTAL WEIGHT = 8 lb

#### LUMBER

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

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

##### BEARINGS

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| D  | 91                      | 0                               | 91        | 0         |
| B  | 76                      | 0                               | 76        | 0         |
| C  | 36                      | 0                               | 41        | 0         |

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

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B, C

##### UNFACTORED REACTIONS

| 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |      |      |           |      |      |      |
|-----------|------------------------------|------|------|-----------|------|------|------|
| JT        | COMBINED                     | SNOW | LIVE | PERM.LIVE | WIND | DEAD | SOIL |
| D         | 66                           | 34/0 | 0/0  | 0/0       | 0/0  | 32/0 | 0/0  |
| B         | 54                           | 33/0 | 0/0  | 0/0       | 0/0  | 22/0 | 0/0  |
| C         | 29                           | 0/-2 | 0/0  | 0/0       | 0/0  | 30/0 | 0/0  |

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (7)

| CHORDS |                           |                  |         | WEBS     |                           |                      |       |
|--------|---------------------------|------------------|---------|----------|---------------------------|----------------------|-------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH | FR-TO |
| D-A    | -52/8                     | 0.0              | 0.0     | 0.06 (4) | 7.81                      |                      |       |
| A-B    | 0/9                       | -95.2            | -95.2   | 0.06 (4) | 10.00                     |                      |       |
| D-E    | 0/0                       | -18.5            | -18.5   | 0.09 (4) | 10.00                     |                      |       |
| E-F    | 0/0                       | -18.5            | -18.5   | 0.09 (4) | 10.00                     |                      |       |
| F-C    | 0/0                       | -18.5            | -18.5   | 0.09 (4) | 10.00                     |                      |       |

##### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|-------|------|-------|------|-------|
| E  | 1-5-12 | 5   | 1    | 8    | FRONT | VERT | TOTAL | ---  | C1    |
| F  | 3-5-12 | 1   | 1    | ---  | FRONT | VERT | TOTAL | ---  | C1    |

##### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.06/1.00 (A-B:4), BC=0.09/1.00 (C-D:4), WB=0.00/1.00 (n/a:0), SSI=0.06/1.00 (C-D:4)

DOL LUMBER=0.88 NAIL=0.88 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

| NAIL VALUES | PLATE GRIP(DRY) (PSI) | SHEAR (PLI) | SECTION (PLI) |
|-------------|-----------------------|-------------|---------------|
|             | 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= 0.02 (D) (INPUT = 0.90 )  
JSI METAL= 0.02 (A) (INPUT = 1.00 )

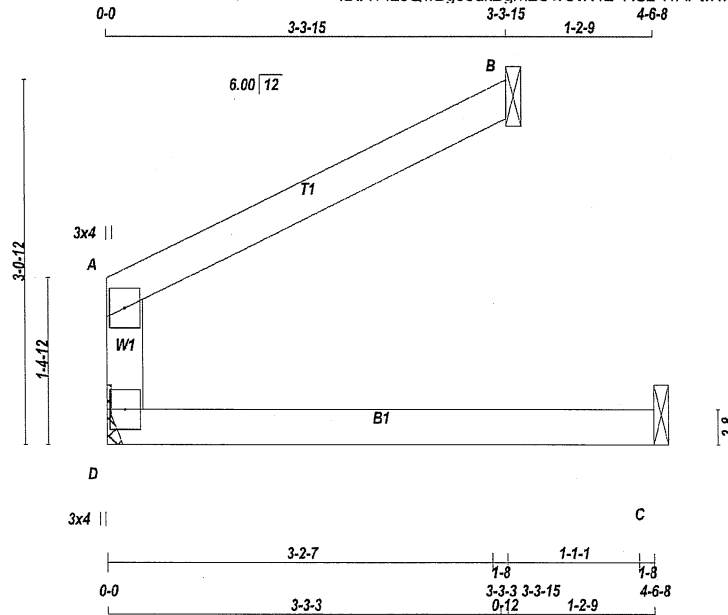


STRUCTURAL COMPONENT ONLY  
DWG # TR22080196

|                    |                    |               |          |                              |          |
|--------------------|--------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427574 | TRUSS NAME<br>J33A | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
|--------------------|--------------------|---------------|----------|------------------------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:18.6

TOTAL WEIGHT = 2 X 11 = 21 lb

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

**BEARINGS**

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| D  | 202                     | 202                             | 0         | 0         |
| B  | 151                     | 151                             | 0         | 0         |
| C  | 47                      | 47                              | 0         | 0         |

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

SEE MITTEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B, C

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|-------------------------------|-------|-------|-----------|-------|--------|-------|
| D  | 144       | 91 / 0                        | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 53 / 0 | 0 / 0 |
| B  | 105       | 82 / 0                        | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 23 / 0 | 0 / 0 |
| C  | 37        | 5 / 0                         | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 31 / 0 | 0 / 0 |

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX  | MAX. UNBRACED LENGTH | FR-TO |
|--------|----------|---------------------------|---------------------------|----------|----------------------|-------|
| D-A    | -166 / 0 | 0.0                       | 0.0                       | 0.03 (1) | 7.81                 |       |
| A-B    | -3 / 2   | -95.2                     | -95.2                     | 0.15 (1) | 10.00                |       |
| D-C    | 0 / 0    | -18.5                     | -18.5                     | 0.10 (4) | 10.00                |       |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.15/1.00 (A-B:1), BC=0.10/1.00 (C-D:4), WB=0.00/1.00 (n/a:0), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE GRIP(DRY) | SHEAR (PSI) | 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= 0.07 (D) (INPUT= 0.90 )  
JSI METAL= 0.05 (A) (INPUT= 1.00 )

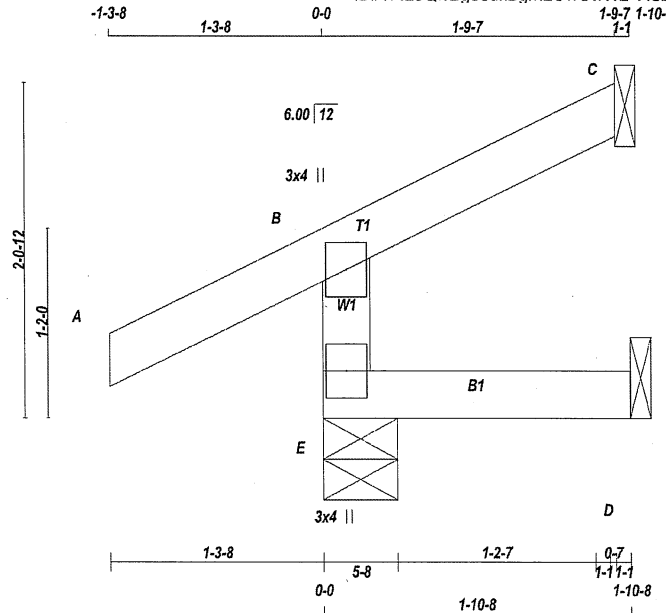


STRUCTURAL COMPONENT ONLY  
DWG # TR22080197

|          |            |          |     |             |                 |          |
|----------|------------|----------|-----|-------------|-----------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK HOMES | DRWG NO. |
| 427574   | J34        | 2        | 1   | TRUSS DESC. |                 |          |

Tamarack Roof Truss, Burlington

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Scale = 1:13.6

TOTAL WEIGHT = 2 X 7 = 14 lb [M]

| LUMBER            |        |      |        |  | DESCR. |
|-------------------|--------|------|--------|--|--------|
| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |  |        |
| 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 IN-SX | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| E  | 280                     | 0    | 280                             | 0    | 5-8             | 5-8             |
| C  | 46                      | 0    | 46                              | 0    | 1-8             | 1-8             |
| D  | 8                       | 0    | 17                              | 0    | 1-8             | 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 LCASE COMBINED |          | MAX/MIN. COMPONENT REACTIONS |       | WIND  | DEAD   | SOIL  |
|----|--------------------|----------|------------------------------|-------|-------|--------|-------|
|    | SNOW               | LIVE     | PERM.LIVE                    |       |       |        |       |
| E  | 195                | 148 / 0  | 0 / 0                        | 0 / 0 | 0 / 0 | 47 / 0 | 0 / 0 |
| C  | 32                 | 25 / -19 | 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 |                           |                           |                        | WEBS  |                           |                    |  |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|--------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. FACTORED (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED (LC) |  |
| FR-TO  |                           | FROM                      | TO                     | FR-TO |                           |                    |  |
| E-B    | -253 / 0                  | 0.0                       | 0.0 0.04 (5)           | 7.81  |                           |                    |  |
| A-B    | 0 / 29                    | -95.2                     | -95.2 0.12 (1)         | 10.00 |                           |                    |  |
| B-C    | -17 / 0                   | -95.2                     | -95.2 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

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

|            |    |   |      |     |
|------------|----|---|------|-----|
| TOP CH.    | LL | = | 26.7 | PSF |
|            | DL | = | 6.0  | PSF |
| BOT CH.    | LL | = | 0.0  | PSF |
|            | DL | = | 7.4  | PSF |
| TOTAL LOAD |    | = | 40.1 | 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 OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIIC 2014

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5)  
WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

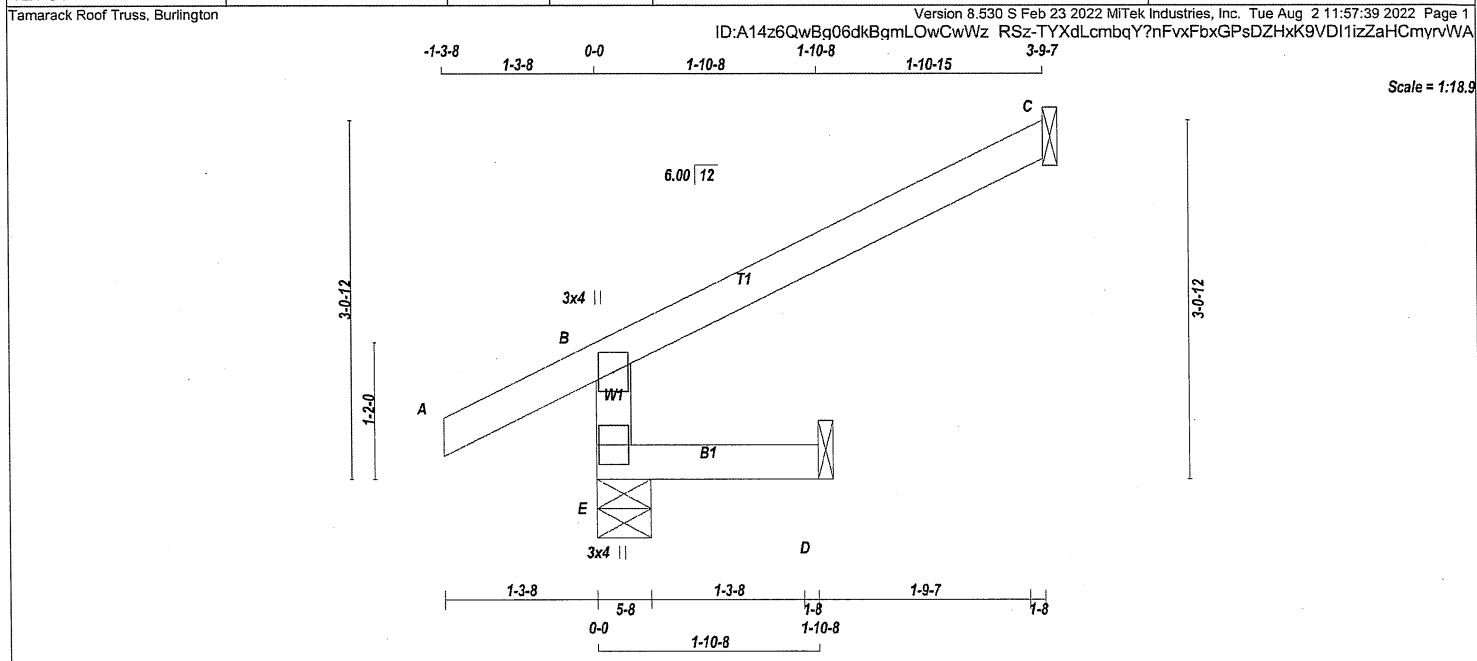
PLATE ROTATION TOL. = 5.0 Deg.

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



STRUCTURAL COMPONENT ONLY  
DWG # TR22080198

|                                 |                   |               |          |                              |          |
|---------------------------------|-------------------|---------------|----------|------------------------------|----------|
| JOB NAME<br>427574              | TRUSS NAME<br>J35 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREENPARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          |                              |          |



TOTAL WEIGHT = 2 X 10 = 19 lb [M]

| LUMBER                |        |      |      | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER |        |     |     | DESIGN CRITERIA |     |     |     |
|-----------------------|--------|------|------|-----------------------------------------------------------------------------------------------|--------|-----|-----|-----------------|-----|-----|-----|
| N. L. G. A. RULES     | CHORDS | SIZE | DRY  | LUMBER                                                                                        | DESCR. | SPF | SPF | SPF             | SPF | SPF | SPF |
| 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.

#### BEARINGS

| JT | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT | REQRD |
|----|-------------------------|---------------------------------|-------|-------|
|    | VERT                    | HORZ                            | DOWN  | HORZ  |
| E  | 374                     | 0                               | 374   | 0     |
| C  | 135                     | 0                               | 135   | 0     |
| D  | 16                      | 0                               | 17    | 0     |

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

#### UNFACTORED REACTIONS

| JT | 1ST LOASE | MAX/MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|------------------------------|-------|-------|-----------|-------|--------|-------|
| E  | 259       | 199 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 60 / 0 | 0 / 0 |
| C  | 93        | 76 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 17 / 0 | 0 / 0 |
| D  | 12        | 0 / 0                        | 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 |                           |                           |                       | WEBS     |                           |                           |                       |
|--------|---------------------------|---------------------------|-----------------------|----------|---------------------------|---------------------------|-----------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | FACTORED LC1 MAX (LC) |
| FR-TO  |                           | FROM                      | TO                    | FR-TO    |                           | FROM                      | TO                    |
| E-B    | -354 / 0                  | 0.0                       | 0.0                   | 0.01 (4) | 7.81                      |                           |                       |
| A-B    | 0 / 29                    | -95.2                     | -95.2                 | 0.13 (5) | 10.00                     |                           |                       |
| B-C    | -20 / 0                   | -95.2                     | -95.2                 | 0.23 (1) | 6.25                      |                           |                       |
| E-D    | 0 / 0                     | -18.5                     | -18.5                 | 0.02 (4) | 10.00                     |                           |                       |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

SPECIFIED LOADS:  
TOP CH. LL = 26.7 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.4 PSF  
TOTAL LOAD = 40.1 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 OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

(55% OF 33.4 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.7 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=0.23/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES  
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)  
MAX MIN MAX MIN MAX MIN  
MT20 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= 0.10 (B) (INPUT = 1.00)



STRUCTURAL COMPONENT ONLY  
DWG # TR22080199

# EWP DESIGN INC.

(905) 832-2250

FAX (905) 832-0286

## RESPONSIBILITIES AND SPECIFICATIONS

### RESPONSIBILITIES

1. EWP DESIGN 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 each drawing meet or exceed the actual dead load imposed by the structure, the live load imposed by the intended use and the snow load imposed by local building code or authorities with jurisdictions.
3. All dimensions are to be verified by the owner, contractor, architect or other authorities with jurisdictions before truss fabrication.
4. EWP DESIGN INC. bears no responsibility for the erection of trusses. Persons erecting trusses are cautioned to seek professional advice regarding the temporary and permanent bracing for the system. Bracing shown on EWP DESIGN INC. drawing is specified for the truss as a component only and forms an integral part of the truss design.
5. It is the truss manufacturer's responsibility to ensure that trusses are manufactured in conformance with specifications of EWP DESIGN INC. as outlined below.

### SPECIFICATIONS

1. Trusses designed by EWP DESIGN INC. conform to the relevant section of the Ontario Building Code of Canada (Part 9 or Part 4) or to the Canadian code for farm buildings, whichever applies to the building type, as indicated on the EWP DESIGN INC. drawings, and conform to the design procedures established by the Truss Plate Institute of Canada. Unit stresses used for truss designs are as per the edition of CSA-O86 shown on EWP DESIGN INC. drawings.
2. Lumber is to be the size, species and grade as specified on EWP DESIGN INC. drawings.
3. Moisture content of lumber shall not exceed 19% in service unless specified otherwise.
4. Metal connector plates shall be applied to both faces of truss at each joint and shall be positioned as specified.
5. Top chords of trusses are assumed to be continuously braced laterally by roof sheathing or by purlins at intervals not exceeding 12.5 times the thickness of top chord member.
6. Bottom chords shall be laterally braced at intervals not exceeding 3M (10') o.c., where rigid ceiling is not applied directly to the underside of chords.

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

February 1, 2019

### TOE-NAIL CAPACITY DETAILS

#### LATERAL AND WITHDRAWAL RESISTANCE OF BEARING ANCHORAGE BY TOE-NAILS

|                |      |       | SPF | D. FIR | SPF | D. FIR |
|----------------|------|-------|-----|--------|-----|--------|
| COMMON WIRE    | 3.00 | 0.144 | 122 | 139    | 30  | 42     |
|                | 3.25 | 0.144 | 127 | 144    | 32  | 45     |
|                | 3.50 | 0.160 | 152 | 173    | 38  | 52     |
| COMMON SPIRAL  | 3.00 | 0.122 | 96  | 108    | 26  | 36     |
|                | 3.25 | 0.122 | 97  | 108    | 28  | 40     |
|                | 3.50 | 0.152 | 142 | 161    | 36  | 50     |
| 3.25" Gun nail | 3.25 | 0.120 | 94  | 105    | 28  | 39     |

**Note:** If using truss with D. Fir lumber and SPF bearing plate, use tabulated SPF values in table.

| Nail type:     | Common wire | Common spiral | Common wire | Common spiral | Gun Nail |
|----------------|-------------|---------------|-------------|---------------|----------|
| Diameter (in.) | 0.160       | 0.152         | 0.144       | 0.122         | 0.120    |
| Length (in.)   | 3.50        | 3.50          | 3.00        | 3.00          | 3.25     |
| 2x4 SPF        | 2           | 2             | 3           | 3             | 3        |
| 2x6 SPF        | 4           | 4             | 4           | 5             | 5        |
| 2x4 D. FIR     | 2           | 2             | 2           | 2             | 2        |
| 2x6 D. FIR     | 3           | 3             | 3           | 4             | 4        |

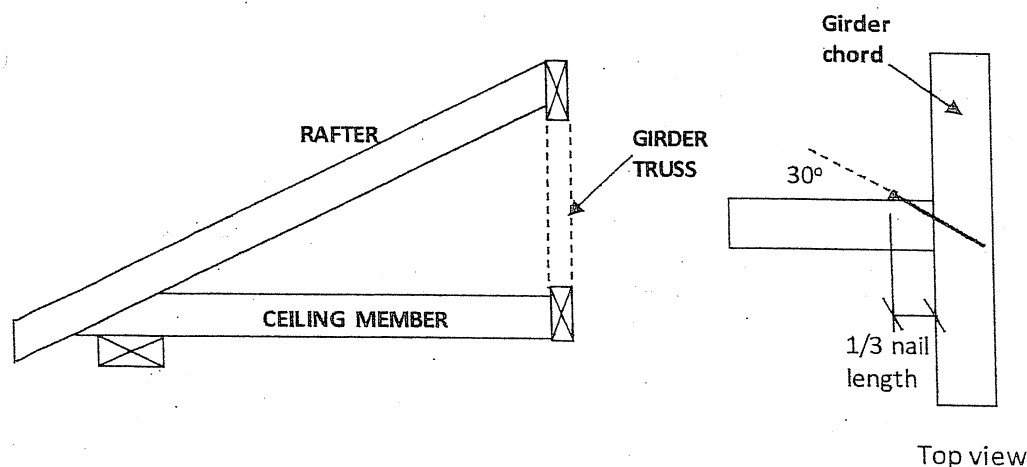
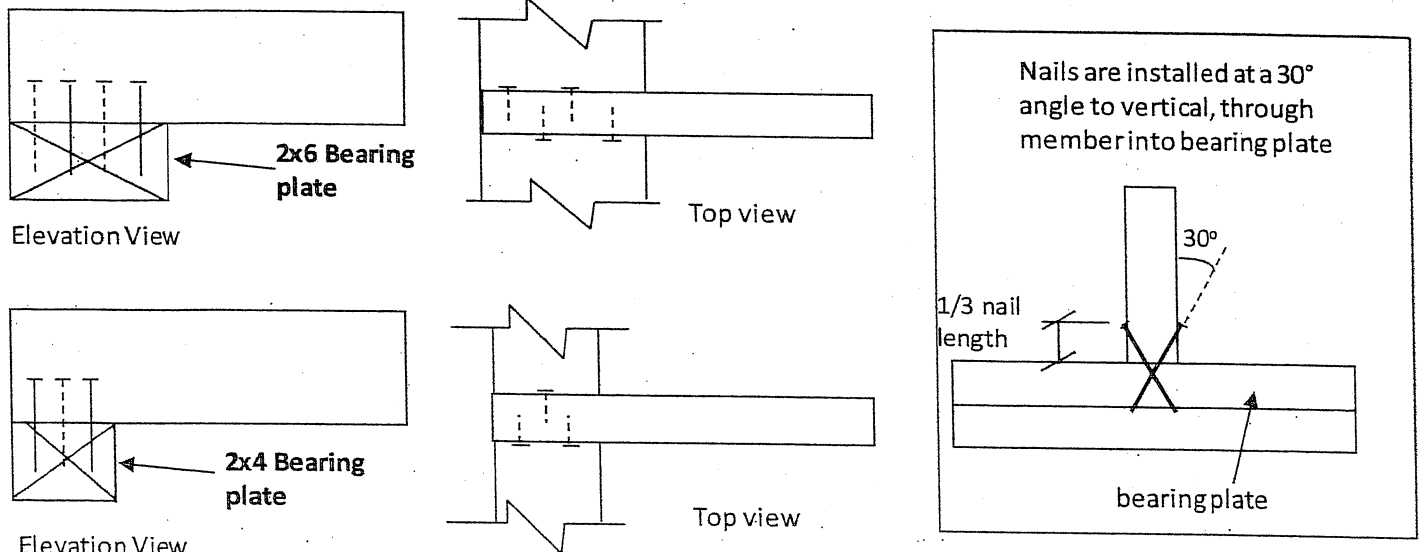


Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss



### TOE-NAIL CAPACITY DETAILS

Figure 2: Toe-Nail Anchorage to Bearing Plate for Uplift



#### NOTES:

1. Rafter and ceiling members may be connected to top and bottom chords of girder truss by toe-nailing the members into the girder chords (see fig. 1), provided the factored vertical reactions of the supported members do not exceed the lateral resistance of the toe-nails. Mechanical connectors (hangers) are required if factored vertical reactions exceed the toe-nail capacity, or if the connection must resist horizontal loads (loads perpendicular to the face of girder or rafter).
2. Trusses, rafters or ceiling members may be anchored to the bearing plate with toe-nails (see fig. 2), provided that the factored uplift reactions due to **wind or earthquake loads** do not exceed the **withdrawal resistance of the toe-nails**. Mechanical anchors (tie-downs) are required for reactions that exceed the toe-nail withdrawal capacity. Toe-nail anchorage to bearing plates is **NOT** permitted if uplift reactions are generated from gravity loads (snow, floor live, dead).
3. Tabulated toe-nail resistances on page 1 are for **one** toe-nail. Multiply unit values by the number of nails used in the connection. Maximum number of nails in a connection shall not exceed the tabulated limits shown on page 1 for a given lumber size /species.
4. Nail values are based on specific gravity of  $G = 0.42$  (SPF) and  $G = 0.49$  (D. Fir).
5. 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  $30^\circ$  to the grain of the member.
6. For wind / earthquake loads, tabulated lateral resistances may be multiplied by 1.15 ( $K_D$  factor). No increases are permitted for tabulated withdrawal resistances.
7. Lumber must be dry ( $< 19\%$  moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-19, Clause 12.9.

PEO  
Certificate No. 10889485



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

## Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of a) easier installation, b) higher capacities, c) lower installed cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

**Material:** See table on pp. 217–218.

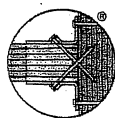
**Finish:** Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, pp. 18–20.

### Installation:

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

### Options:

- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on pp. 105–107.



Double-Shear Nailing Top View

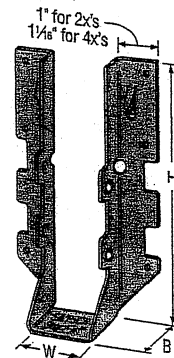
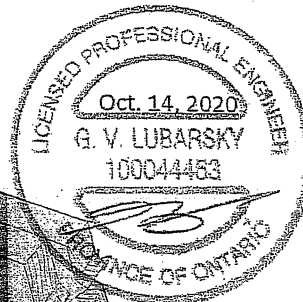
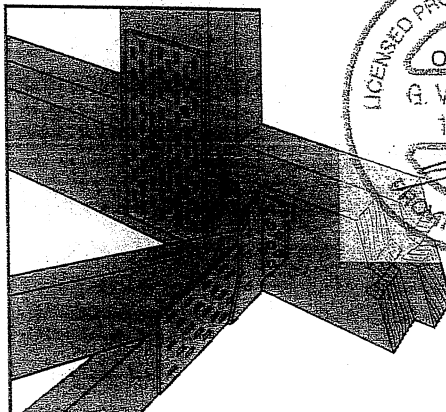


Double-Shear Nailing Side View; Do not bend tab

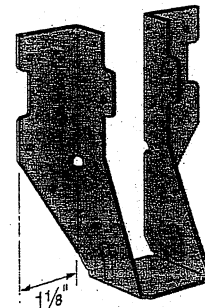


Dome Double-Shear Nailing Side View (available on some models)

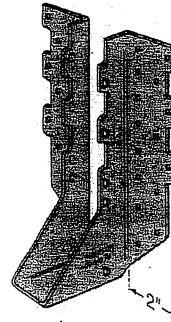
Typical HUS26 Installation with Reduced Heel Height (Truss Designer to provide fastener quantity for connecting multiple members together)



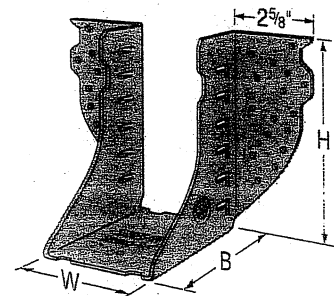
**LUS28**



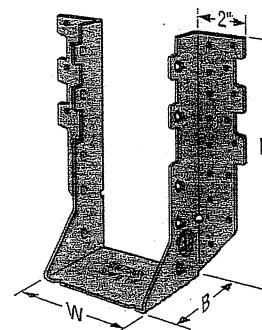
**LU26L**



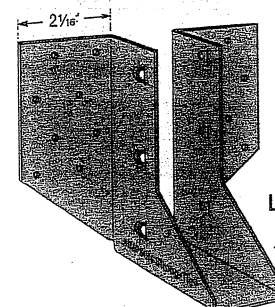
**HUS210**  
(HUS26, HUS28, and HHUS similar)



**HGUS28-2**



**HHUS210-2**



**LJS26DS**

# 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:

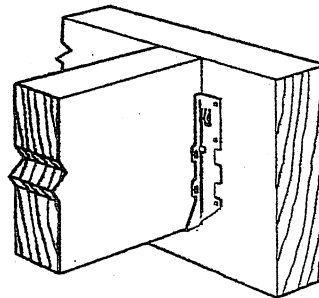
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

## Installation:

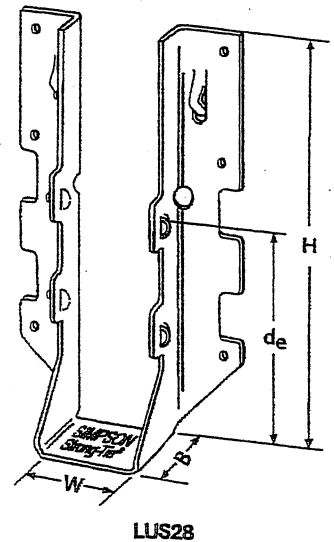
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire,  
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

## Options:

- These hangers cannot be modified

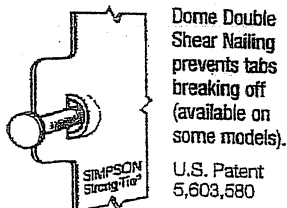


Typical LUS  
Installation



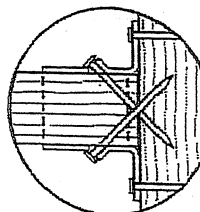
| Model No. | Ga. | Dimensions (in.) |         |       |                             | Fasteners |         | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|---------|-------|-----------------------------|-----------|---------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H       | B     | d <sub>e</sub> <sup>1</sup> | Face      | Joist   | D-Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |         |       |                             |           |         | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) |
| LUS24     | 18  | 1 1/16           | 3 1/8   | 1 1/4 | 1 15/16                     | (4) 10d   | (2) 10d | 710                              | 1630                             | 645                              | 1155                             |
| LUS24-2   | 18  | 3 1/8            | 3 1/8   | 2     | 1 15/16                     | (4) 16d   | (2) 16d | 835                              | 2020                             | 590                              | 1435                             |
| LUS26     | 18  | 1 1/16           | 4 3/4   | 1 1/4 | 3 3/8                       | (4) 10d   | (4) 10d | 1420                             | 2170                             | 1290                             | 1630                             |
| LUS26-2   | 18  | 3 1/8            | 4 7/8   | 2     | 4                           | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 1920                             |
| LUS26-3   | 18  | 4 3/8            | 4 3/8   | 2     | 3 1/4                       | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 2340                             |
| LUS28     | 18  | 1 1/16           | 6 3/8   | 1 1/4 | 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 1/4                       | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18  | 1 1/16           | 7 13/16 | 1 1/4 | 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 3/16  | 2     | 5 1/4                       | (8) 16d   | (6) 16d | 2580                             | 3345                             | 2320                             | 2375                             |

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

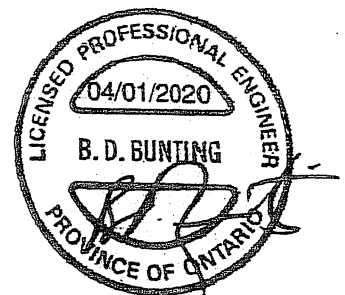


Dome Double  
Shear Nailing  
prevents tabs  
breaking off  
(available on  
some models).

U.S. Patent  
5,603,580



Double  
Shear  
Nailing  
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).

© 2020 Simpson Strong-Tie Company Inc.

T-SPEC LUS20 3/20 exp. 6/22

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

# 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:**

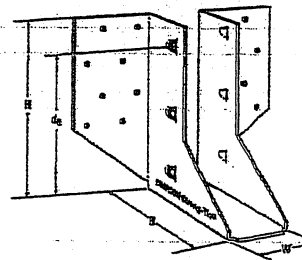
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

**Installation:**

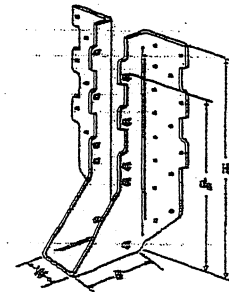
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

**Options:**

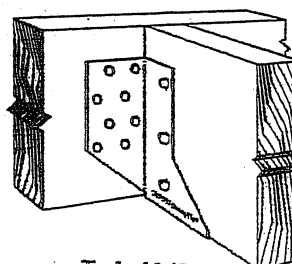
- See current catalogue for options



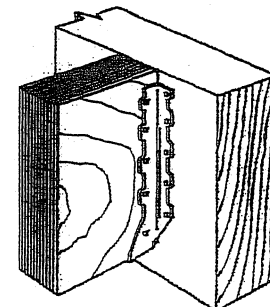
LJS26DS



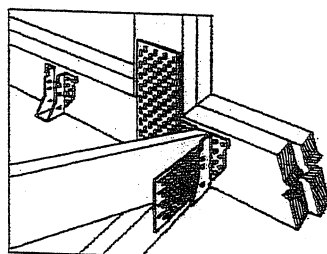
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



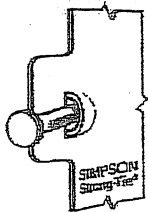
Typical HUS  
Installation



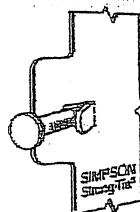
Typical HUS Installation  
(Truss Designer to provide fastener quantity for connecting multiple members together)

| Model No.  | Ga. | Dimensions (in.) |       |       |                | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|------------|-----|------------------|-------|-------|----------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|            |     | W                | H     | B     | d <sub>1</sub> | Face      | Joist    | D-Fr-L                           |                                  | S-P-F                            |                                  |
|            |     |                  |       |       |                |           |          | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) |
| LJS26DS    | 18  | 1 1/16           | 5     | 3 1/2 | 4 5/8          | (16) 16d  | (6) 16d  | 2055                             | 4265                             | 1460                             | 4115                             |
| HUS26      | 16  | 1 5/8            | 5 5/8 | 3     | 3 15/16        | (14) 16d  | (6) 16d  | 2705                             | 4940                             | 2065                             | 3875                             |
| HUS28      | 16  | 1 5/8            | 7 1/2 | 3     | 6 7/32         | (22) 16d  | (8) 16d  | 3605                             | 5365                             | 2675                             | 4345                             |
| HUS210     | 16  | 1 5/8            | 9 1/2 | 3     | 7 31/32        | (30) 16d  | (10) 16d | 4505                             | 5795                             | 4010                             | 4740                             |
| HUS1.81/10 | 16  | 1 7/16           | 9     | 3     | 8              | (30) 16d  | (10) 16d | 4505                             | 6450                             | 4010                             | 5200                             |

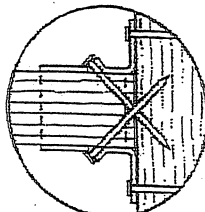
1. d<sub>1</sub> is the distance from the seat of the hanger to the highest joist nail.



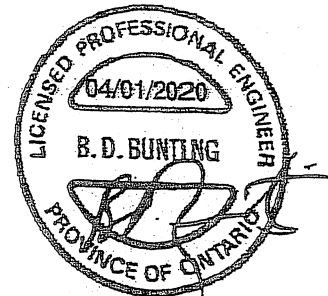
Dome Double Shear Nailing prevents tabs breaking off (available on some models).  
U.S. Patent 5,603,580



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



Double Shear Nailing Top View.



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)

# 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:

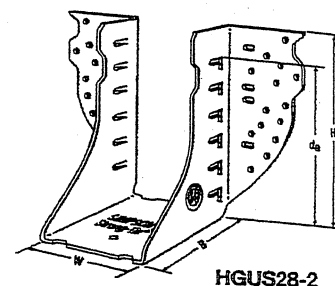
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%.  
No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

## Installation:

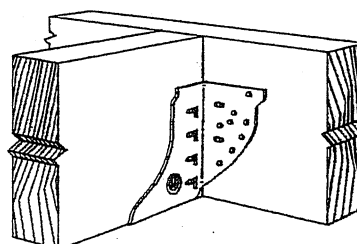
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

## Options:

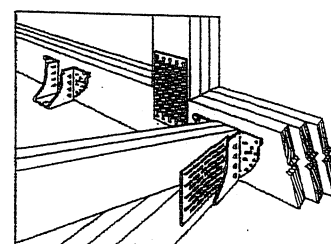
- See current catalogue for options



HGUS28-2



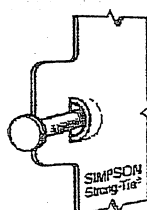
Typical HGUS  
Installation



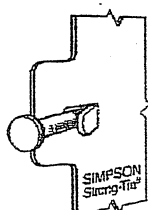
Typical HGUS Installation  
(Truss Designer to  
provide fastener quantity  
for connecting multiple  
members together)

| Model No. | Ga. | Dimensions (in.) |     |   |                             |  | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|-----|---|-----------------------------|--|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H   | B | d <sub>1</sub> <sup>1</sup> |  | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |     |   |                             |  |           |          | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>p</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>p</sub> =1.00) |
| HGUS26    | 12  | 1⅞               | 5⅞  | 5 | 4⅝                          |  | (20) 16d  | (8) 16d  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12  | 3⅞               | 5⅞  | 4 | 4⅝                          |  | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12  | 4⅞               | 5⅞  | 4 | 4⅝                          |  | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12  | 6⅞               | 5⅞  | 4 | 4⅝                          |  | (20) 16d  | (8) 16d  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12  | 1⅞               | 7⅞  | 5 | 6⅞                          |  | (36) 16d  | (12) 16d | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12  | 3⅞               | 7⅞  | 4 | 6⅞                          |  | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12  | 4⅞               | 7⅞  | 4 | 6⅞                          |  | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12  | 6⅞               | 7⅞  | 4 | 6⅞                          |  | (36) 16d  | (12) 16d | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210   | 12  | 1⅞               | 9⅞  | 5 | 7⅞                          |  | (46) 16d  | (16) 16d | 3535                             | 11070                            | 2510                             | 8090                             |
| HGUS210-2 | 12  | 3⅞               | 9⅞  | 4 | 8⅞                          |  | (46) 16d  | (16) 16d | 6840                             | 14015                            | 4855                             | 10270                            |
| HGUS210-3 | 12  | 4⅞               | 9⅞  | 4 | 8⅞                          |  | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12  | 6⅞               | 9⅞  | 4 | 8⅞                          |  | (46) 16d  | (16) 16d | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12  | 6⅞               | 10⅞ | 4 | 10⅞                         |  | (56) 16d  | (20) 16d | 7640                             | 14995                            | 5425                             | 10645                            |
| HGUS214-4 | 12  | 6⅞               | 12⅞ | 4 | 11⅞                         |  | (66) 16d  | (22) 16d | 10130                            | 16400                            | 7195                             | 11645                            |

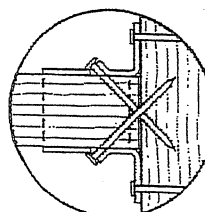
1. d<sub>1</sub> is the distance from the seat of the hanger to the highest joist nail.



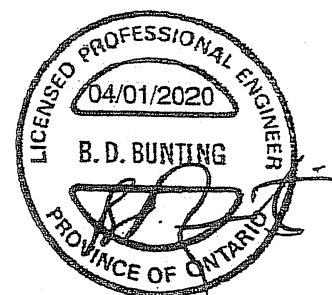
Dome Double  
Shear Nailing  
prevents tabs  
breaking off  
(available on  
some models).  
U.S. Patent  
5,603,580



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).

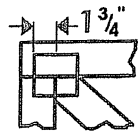
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T-SPECHGUS20 3/20 exp. 6/22

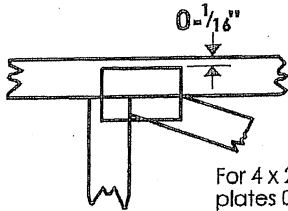
(800) 999-5099  
[strongtie.com](http://strongtie.com)

## Symbols

### PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.



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

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

### PLATE SIZE

4 x 4

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

### LATERAL BRACING LOCATION



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

### BEARING



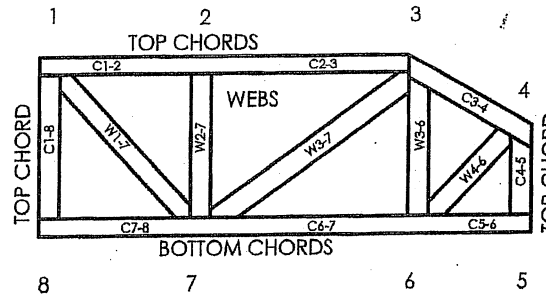
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards:

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

## Numbering System

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



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

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

### PRODUCT CODE APPROVALS

CCMC Reports:

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

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**MiTek**  
POWER TO PERFORM.™

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

## General Safety Notes

**Failure to Follow Could Cause Property Damage or Personal Injury**

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