

CITY OF RICHMOND HILL  
BUILDING DIVISION  
05/01/2024  
RECEIVED  
Per: Joshua Nabua

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

6/12 ROOF PITCH UNLESS  
OTHERWISE NOTED

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

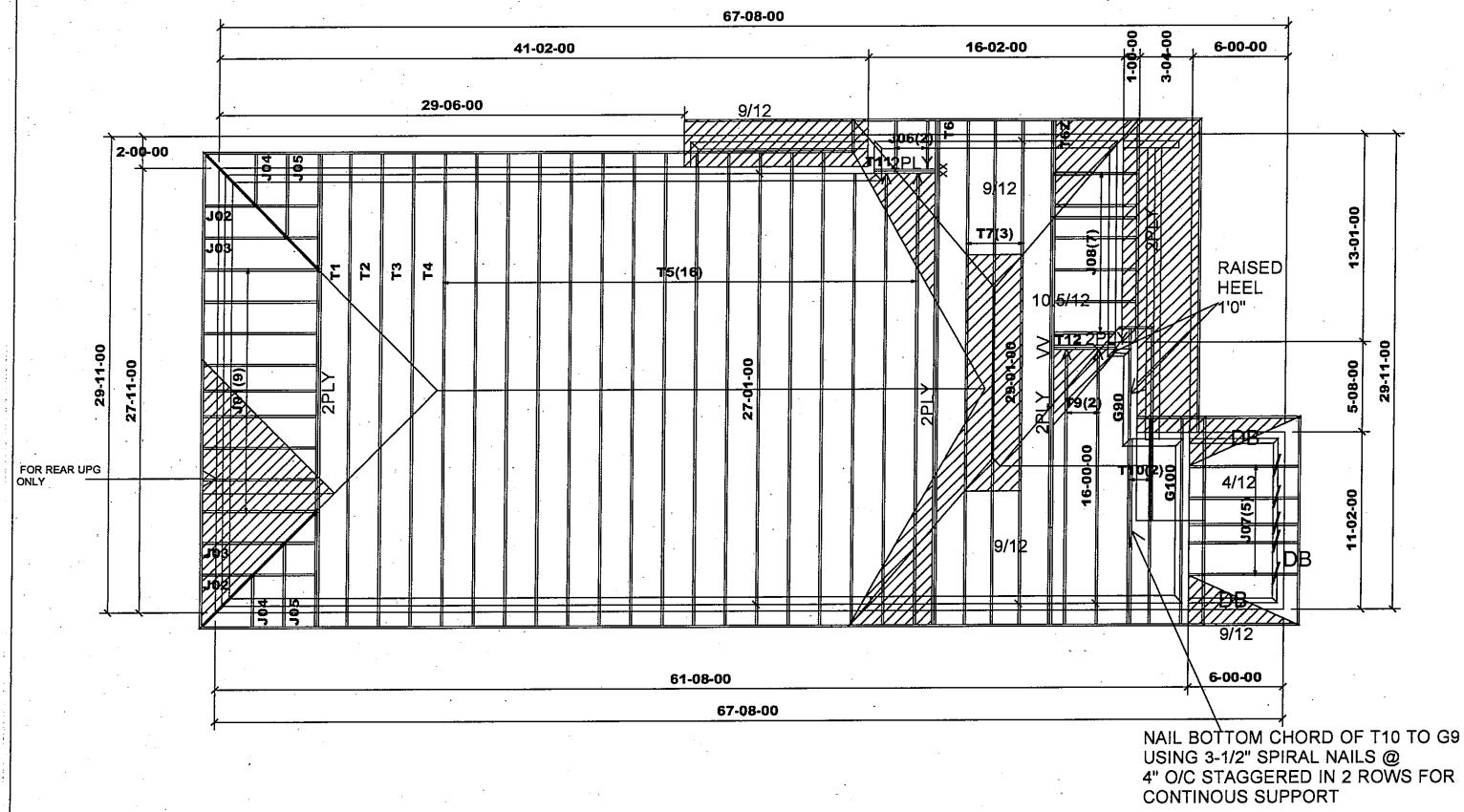
DESIGN CONFORMS WITH OBC  
2012(2019 AMENDMENT)  
OCCUPANCY: RESIDENTIAL | PART: 9  
Ss = 31.3 psf | Sr = 8.4 psf

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

 DENOTES:  
CONVENTIONAL  
FRAMING

HARDWARE:  
LJS26DS - (V)  
LUS24 - (O)  
LUS26-2 - (VV)  
HGUS26-2 - (XX)  
H2.5T - (I)

DB - DROP BEAM  
BY OTHERS



M15686

|                                                                                    |                                                                                |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Job Track: <b>53256</b><br>Plan Log: <b>207576</b><br>Layout ID: <b>434999</b> | Builder / Location:<br><b>GREEN PARK HOMES / RICHMOND HILL</b><br>Project: <b>TRINIGROUP DEVELOPMENTS</b><br>Date: 2023-09-25 Sales: Rick DiCiano Designer: JXT | Model / Elevation:<br><b>VILLA 6 / 1 OR 1 REAR UPG</b><br><p>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.</p> <p>Mitek ver 8.6.3.353</p> |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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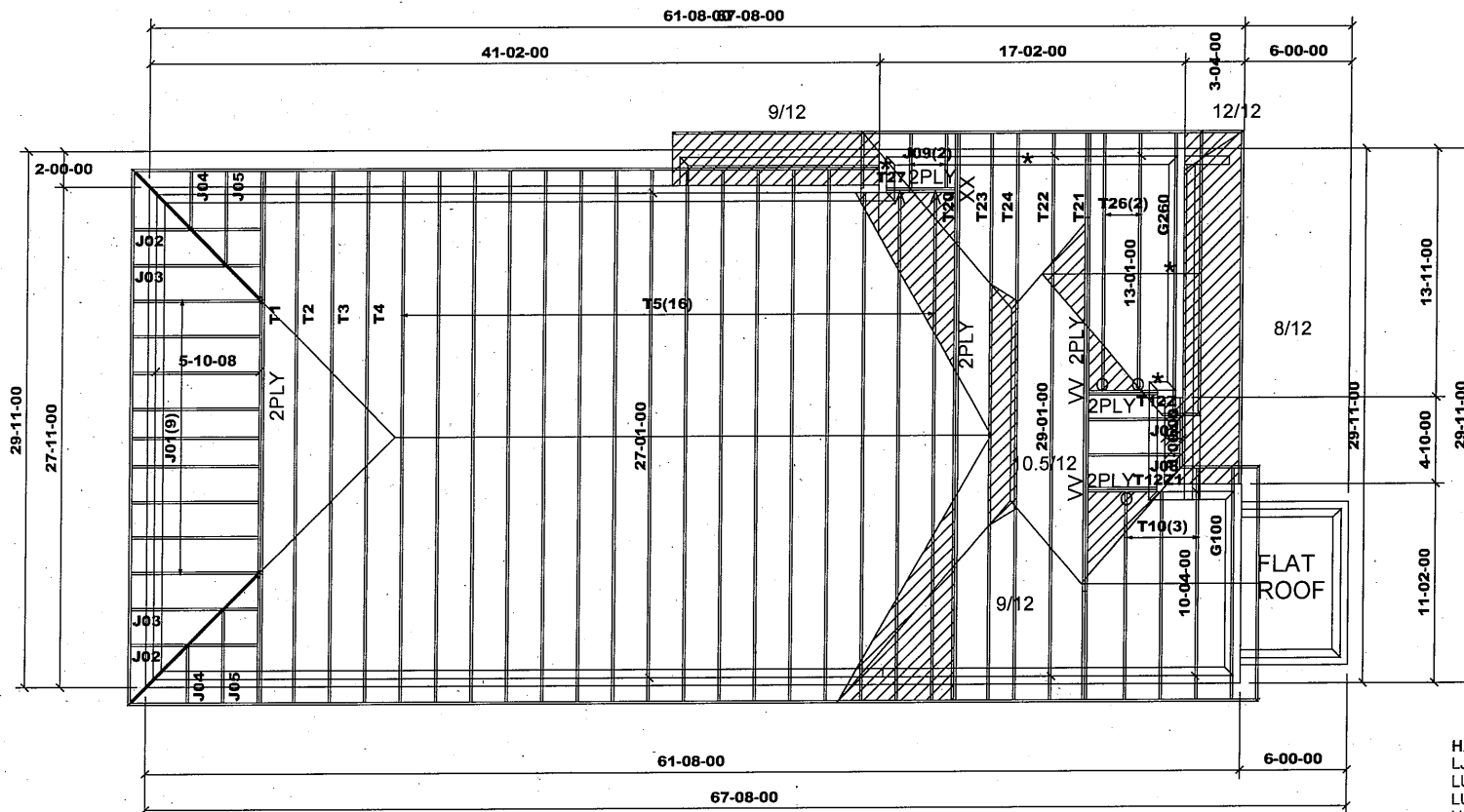
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TCDL = 6.0 psf  
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 DENOTES:  
CONVENTIONAL  
FRAMING

HARDWARE:  
LJS26DS - (V)  
LUS24 - (O)  
LUS26-2 - (VV)  
HGUS26-2 - (XX)  
H2.5T - (I)

\*1' RAISED HEEL



M15686



Job Track: **53256**  
Plan Log: **207576**  
Layout ID: **435000**

Builder / Location:

**GREEN PARK HOMES / RICHMOND HILL**

Model / Elevation:

**VILLA 6 / 2**

Project: **TRINIGROUP DEVELOPMENTS**

Date: 2023-09-25 Sales: Rick DiCiano Designer: JXT

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Mitek ver 8.6.3.353

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Per: joshua.nabua

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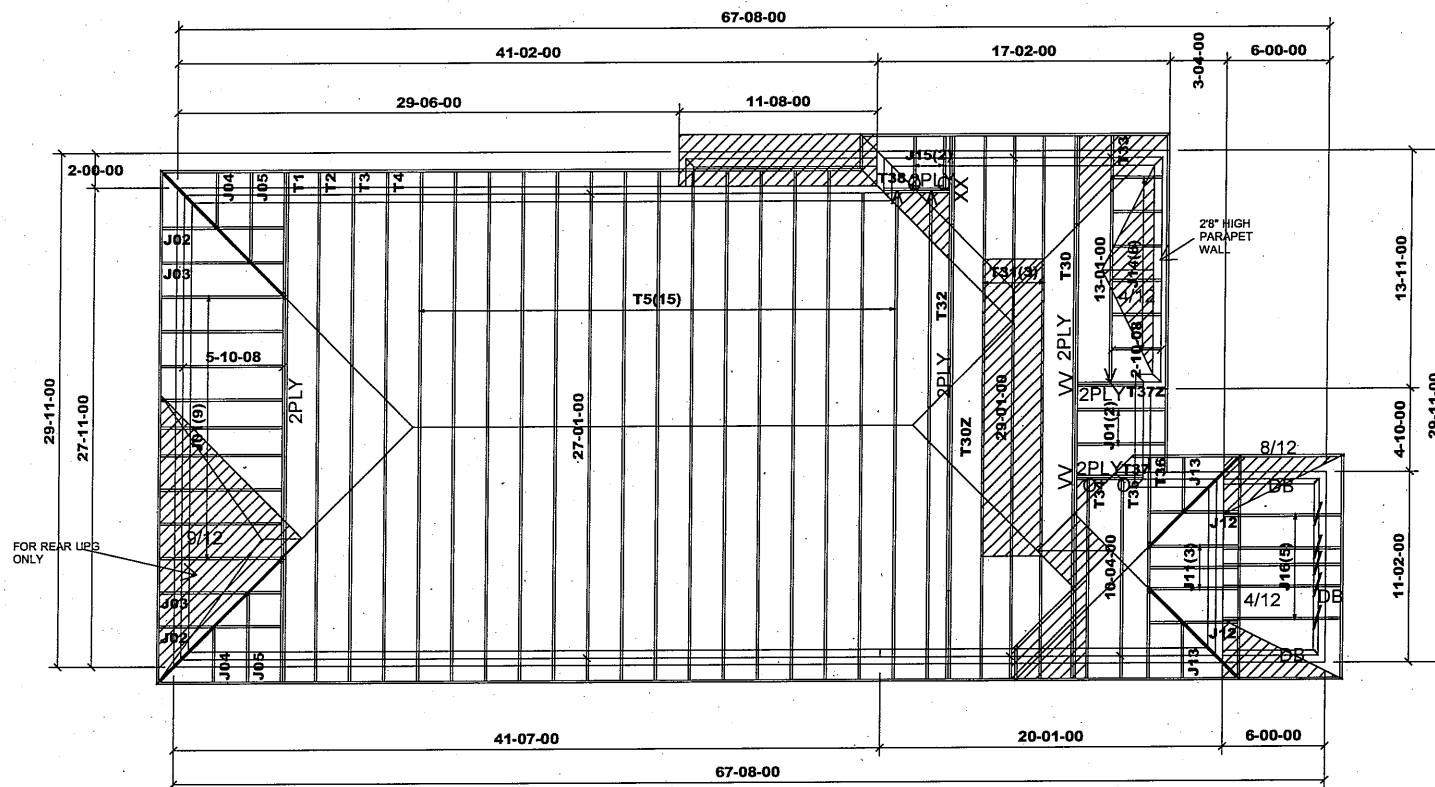
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HARDWARE:  
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LUS26-2 - (VV)  
HGUS26-2 - (XX)  
H2.5T - (I)

DB - DROP BEAM  
BY OTHERS



M15686



Job Track: **53256**  
Plan Log: **207576**  
Layout ID: **435001**

Builder / Location:

**GREEN PARK HOMES / RICHMOND HILL**

Model / Elevation:

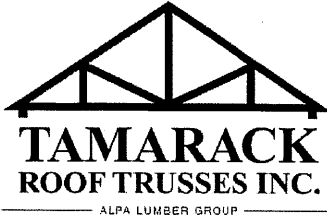
**VILLA 6 / 3 OR 3 REAR UPG**Project: **TRINIGROUP DEVELOPMENTS**

Date: 2023-09-25 Sales: Rick DiCiano Designer: JXT

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Mitek ver 8.6.3.353

# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: TRINIGROUP DEVELOPMENTS  
 Location: RICHMOND HILL  
 Model: VILLA 6  
 Lot #:   
 Elevation: 1

Job Track: 53256  
 PlanLog: 207576  
 Layout ID: 434999  
 Ref #  
 Page: 1 of 2  
 Date: 09-26-2023  
 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        | 27-01-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 245.87<br>155.33   |                     |                    |
|         | 1          | T2<br>Hip                    | 6 /12        | 27-01-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 106.53<br>68.17    |                     |                    |
|         | 1          | T3<br>Hip                    | 6 /12        | 27-01-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 111.21<br>70.67    |                     |                    |
|         | 1          | T4<br>Hip                    | 6 /12        | 27-01-00 | 7-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 112.82<br>70.67    |                     |                    |
|         | 16         | T5<br>Common                 | 6 /12        | 27-01-00 | 7-11-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1749.21<br>1077.33 |                     |                    |
|         | 1<br>2-ply | T6<br>Hip Girder             | 9 /12        | 29-01-00 | 5-01-01 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 292.57<br>187.00   |                     |                    |
|         | 1<br>2-ply | T6Z<br>Hip Girder            | 9 /12        | 29-01-00 | 5-01-01 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 292.57<br>187.00   |                     |                    |
|         | 3          | T7<br>Hip                    | 9 /12        | 29-01-00 | 6-10-01 | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 397.47<br>250.00   |                     |                    |
|         | 2          | T9<br>Common                 | 9 /12        | 16-00-00 | 8-00-04 | 2 x 4          | 1-03-08                   | 2-06-04<br>1-06-04           | 143.89<br>92.00    |                     |                    |
|         | 2          | T10<br>Common                | 9 /12        | 10-04-00 | 5-04-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 89.98<br>59.00     |                     |                    |
|         | 1<br>2-ply | T11<br>Half Hip<br>Girder    | 10.5 /1<br>2 | 3-10-08  | 2-10-00 | 2 x 4<br>2 x 6 |                           | 1-08-06<br>2-10-00           | 44.19<br>30.67     |                     |                    |
|         | 1<br>2-ply | T12<br>Jack-Closed<br>Girder | 10.5 /1<br>2 | 3-10-08  | 5-01-01 | 2 x 4<br>2 x 6 |                           | 1-08-06<br>5-01-01           | 45.86<br>30.67     |                     |                    |
|         | 1          | G90<br>GABLE                 | 9 /12        | 16-00-00 | 8-00-04 | 2 x 4          | 1-03-08<br>1-03-08        | 2-06-04<br>1-06-04           | 77.73<br>49.67     |                     |                    |
|         | 1          | G100<br>GABLE                | 9 /12        | 10-04-00 | 5-04-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 45.39<br>30.50     |                     |                    |

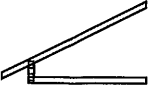
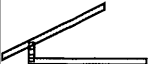
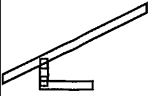
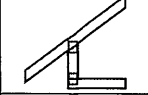
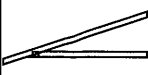
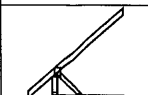
CITY OF RICHMOND HILL  
 BUILDING DIVISION

05/01/2024

RECEIVED  
 Per: joshua.nabua

|                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPA LUMBER GROUP</small></p> | DELIVERY SHIPLIST                                                                                                                                                    |                                                                                                                                               |
|                                                                                                                                                                    | Lumber Yard: TAMARACK LUMBER<br>Builder: GREEN PARK HOMES<br>Project: TRINIGROUP DEVELOPMENTS<br>Location: RICHMOND HILL<br>Model: VILLA 6<br>Lot #:<br>Elevation: 1 | Job Track: 53256<br>PlanLog: 207576<br>Layout ID: 434999<br>Ref #<br>Page: 2 of 2<br>Date: 09-26-2023<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 |
|------------------------------------------------------------------------------------|------------|------------------|--------------|---------|---------|--------|---------------------------|------------------------------|-----------------|---------------------|--------------------|
|    | 9          | J01<br>Jack-Open | 6 /12        | 5-10-08 | 4-01-04 | 2 x 4  | 1-03-08                   | 1-02-00<br>4-01-04           | 151.15<br>96.00 |                     |                    |
|    | 2          | J02<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          | J03<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          | J04<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          | J05<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  |                     |                    |
|  | 2          | J06<br>Jack-Open | 9 /12        | 1-09-00 | 2-10-00 | 2 x 4  | 1-03-08                   | 1-06-04<br>2-10-00           | 15.63<br>12.00  |                     |                    |
|  | 5          | J07<br>Jack-Open | 4 /12        | 6-04-00 | 2-10-03 | 2 x 4  | 1-03-08                   | 3-15<br>2-02-04              | 82.49<br>53.33  |                     |                    |
|  | 7          | J08<br>Jack-Open | 10.5 /1<br>2 | 3-10-08 | 5-01-01 | 2 x 4  | 1-03-08                   | 1-08-06<br>5-01-01           | 108.51<br>72.33 |                     |                    |

TOTAL # TRUSS= 69      TOTAL BFT OF ALL TRUSSES= 2645.67      BFT.      TOTAL WEIGHT OF ALL TRSSES 4197.68 LBS

### HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 1   | Hardware | HGUS26-2 |        |
| 4   | Hardware | LJS26DS  |        |
| 1   | Hardware | LUS26-2  |        |
| 5   | Hardware | H2.5T    |        |

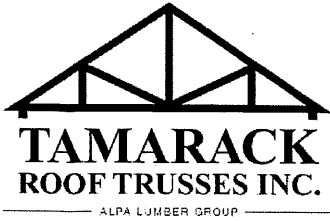
TOTAL NUMBER OF ITEMS= 11

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua

# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: TRINIGROUP DEVELOPMENTS  
 Location: RICHMOND HILL  
 Model: VILLA 6  
 Lot #:   
 Elevation: 2

Job Track: 53256  
 PlanLog: 207576  
 Layout ID: 435000  
 Ref #  
 Page: 1 of 2  
 Date: 09-25-2023  
 Designer:  
 Sales Rep: Rick DiCiano

## Roof Trusses

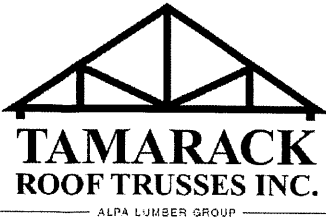
| PROFILE | QTY<br>PLY | MARK<br>TYPE                   | PITCH        | SPAN     | HEIGHT  | LUMBER         | OVERHANG<br>LEFT<br>RIGHT | HEEL HEIGHT<br>LEFT<br>RIGHT | LBS.<br>BFT.       | BUNDLE #<br>STACK # | LOAD BY<br>REMARKS |
|---------|------------|--------------------------------|--------------|----------|---------|----------------|---------------------------|------------------------------|--------------------|---------------------|--------------------|
|         | 1<br>2-ply | T1<br>Hip Girder               | 6 /12        | 27-01-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 245.87<br>155.33   |                     |                    |
|         | 1          | T2<br>Hip                      | 6 /12        | 27-01-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 106.53<br>68.17    |                     |                    |
|         | 1          | T3<br>Hip                      | 6 /12        | 27-01-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 111.21<br>70.67    |                     |                    |
|         | 1          | T4<br>Hip                      | 6 /12        | 27-01-00 | 7-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 112.82<br>70.67    |                     |                    |
|         | 16         | T5<br>Common                   | 6 /12        | 27-01-00 | 7-11-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1749.21<br>1077.33 |                     |                    |
|         | 3          | T10<br>Common                  | 9 /12        | 10-04-00 | 5-04-12 | 2 x 4          | 1-03-08                   | 1-06-04<br>1-06-04           | 129.45<br>84.50    |                     |                    |
|         | 1<br>2-ply | T12Z<br>Jack-Closed<br>Girder  | 10.5 /1<br>2 | 3-10-08  | 5-01-01 | 2 x 4<br>2 x 6 |                           | 1-08-06<br>5-01-01           | 45.86<br>30.67     |                     |                    |
|         | 1<br>2-ply | T12Z1<br>Jack-Closed<br>Girder | 10.5 /1<br>2 | 3-10-08  | 5-01-01 | 2 x 4<br>2 x 6 |                           | 1-08-06<br>5-01-01           | 45.86<br>30.67     |                     |                    |
|         | 1<br>2-ply | T20<br>Hip Girder              | 9 /12        | 29-01-00 | 6-01-01 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 2-06-04<br>1-06-04           | 308.59<br>194.33   |                     |                    |
|         | 1<br>2-ply | T21<br>Hip Girder              | 9 /12        | 29-01-00 | 5-01-01 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 2-06-04<br>1-06-04           | 286<br>180.00      |                     |                    |
|         | 1          | T22<br>Hip                     | 9 /12        | 29-01-00 | 6-10-01 | 2 x 4          | 1-03-08<br>1-03-08        | 2-06-04<br>1-06-04           | 130.69<br>84.17    |                     |                    |
|         | 1          | T23<br>Hip                     | 9 /12        | 29-01-00 | 7-10-01 | 2 x 4          | 1-03-08<br>1-03-08        | 2-06-04<br>1-06-04           | 132.78<br>84.67    |                     |                    |
|         | 1          | T24<br>Hip                     | 9 /12        | 29-01-00 | 8-07-01 | 2 x 4          | 1-03-08<br>1-03-08        | 2-06-04<br>1-06-04           | 139.88<br>89.67    |                     |                    |
|         | 2          | T26<br>Common                  | 9 /12        | 13-01-00 | 7-05-02 | 2 x 4          | 1-03-08                   | 2-06-04<br>2-06-04           | 126.98<br>84.33    |                     |                    |

CITY OF RICHMOND HILL  
 BUILDING DIVISION

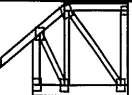
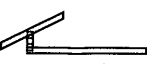
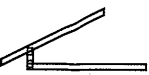
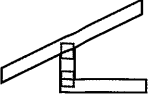
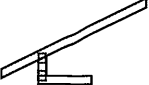
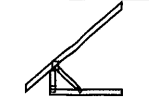
05/01/2024

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 Per: joshua.nabua



|                                                                                                                                                                     |                   |  |  |  |                                                                                                                                                                      |  |                                                                                                                                               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
|  <p><b>TAMARACK</b><br/>ROOF TRUSSES INC.<br/><small>ALPHA LUMBER GROUP</small></p> | DELIVERY SHIPLIST |  |  |  | Lumber Yard: TAMARACK LUMBER<br>Builder: GREEN PARK HOMES<br>Project: TRINIGROUP DEVELOPMENTS<br>Location: RICHMOND HILL<br>Model: VILLA 6<br>Lot #:<br>Elevation: 2 |  | Job Track: 53256<br>PlanLog: 207576<br>Layout ID: 435000<br>Ref #<br>Page: 2 of 2<br>Date: 09-25-2023<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<br>2-ply | T27<br>Half Hip<br>Girder | 10.5 /1<br>2 | 3-10-08  | 3-10-00 | 2 x 4<br>2 x 6 | 1-03-08                   | 2-08-06<br>3-10-00           | 54.96<br>37.67  |                     |                    |
|    | 1          | G100<br>GABLE             | 9 /12        | 10-04-00 | 5-04-12 | 2 x 4          | 1-03-08<br>1-03-08        | 1-06-04<br>1-06-04           | 45.39<br>30.50  |                     |                    |
|    | 1          | G260<br>GABLE             | 9 /12        | 13-01-00 | 7-05-02 | 2 x 4          | 1-03-08<br>1-03-08        | 2-06-04<br>2-06-04           | 67.87<br>44.50  |                     |                    |
|    | 9          | J01<br>Jack-Open          | 6 /12        | 5-10-08  | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 151.15<br>96.00 |                     |                    |
|   | 2          | J02<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          | J03<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          | J04<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          | J05<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  |                     |                    |
|  | 2          | J08<br>Jack-Open          | 10.5 /1<br>2 | 3-10-08  | 5-01-01 | 2 x 4          | 1-03-08                   | 1-08-06<br>5-01-01           | 31<br>20.67     |                     |                    |
|  | 2          | J09<br>Jack-Open          | 9 /12        | 1-09-00  | 3-10-00 | 2 x 4          | 1-03-08                   | 2-06-04<br>3-10-00           | 22.06<br>16.33  |                     |                    |

TOTAL # TRUSS= 62      TOTAL BFT OF ALL TRUSSES= 2604.18      BFT.      TOTAL WEIGHT OF ALL TRSSES 4128.8      LBS

### HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 1   | Hardware | HGUS26-2 |        |
| 2   | Hardware | LJS26DS  |        |
| 3   | Hardware | LUS24    |        |
| 2   | Hardware | LUS26-2  |        |

TOTAL NUMBER OF ITEMS= 8

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua

# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: TRINIGROUP DEVELOPMENTS  
 Location: RICHMOND HILL  
 Model: VILLA 6  
 Lot #:   
 Elevation: 3

Job Track: 53256  
 PlanLog: 207576  
 Layout ID: 435001  
 Ref #  
 Page: 1 of 3  
 Date: 09-25-2023  
 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 | 27-01-00 | 4-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 245.87<br>155.33   |                     |                    |
|         | 1          | T2<br>Hip                    | 6 /12 | 27-01-00 | 5-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 106.53<br>68.17    |                     |                    |
|         | 1          | T3<br>Hip                    | 6 /12 | 27-01-00 | 6-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 111.21<br>70.67    |                     |                    |
|         | 1          | T4<br>Hip                    | 6 /12 | 27-01-00 | 7-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 112.82<br>70.67    |                     |                    |
|         | 15         | T5<br>Common                 | 6 /12 | 27-01-00 | 7-11-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 1639.89<br>1010.00 |                     |                    |
|         | 1<br>2-ply | T30<br>Hip Girder            | 6 /12 | 29-01-00 | 3-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 247.98<br>154.33   |                     |                    |
|         | 1<br>2-ply | T30Z<br>Hip Girder           | 6 /12 | 29-01-00 | 3-01-04 | 2 x 4<br>2 x 6 | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 247.91<br>154.33   |                     |                    |
|         | 3          | T31<br>Hip                   | 6 /12 | 29-01-00 | 4-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 1-02-00<br>1-02-00           | 329.13<br>209.50   |                     |                    |
|         | 1          | T32<br>Hip                   | 6 /12 | 27-01-00 | 7-05-00 | 2 x 4          | 1-03-08                   | 1-02-00<br>1-02-00           | 113.09<br>71.67    |                     |                    |
|         | 1          | T33<br>Half Hip<br>Girder    | 6 /12 | 13-01-00 | 2-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-01-04           | 48.72<br>32.00     |                     |                    |
|         | 1          | T34<br>Hip                   | 6 /12 | 10-04-00 | 3-06-08 | 2 x 4          | 1-03-08                   | 2-02-00<br>2-02-00           | 44.16<br>28.33     |                     |                    |
|         | 1          | T35<br>Hip                   | 6 /12 | 10-04-00 | 4-06-08 | 2 x 4          | 1-03-08                   | 2-02-00<br>2-02-00           | 48.14<br>30.33     |                     |                    |
|         | 1          | T36<br>Hip Girder            | 6 /12 | 10-04-00 | 4-01-04 | 2 x 4          | 1-03-08<br>1-03-08        | 2-02-00<br>2-02-00           | 47.66<br>30.50     |                     |                    |
|         | 1<br>2-ply | T37<br>Jack-Closed<br>Girder | 6 /12 | 3-10-08  | 3-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>3-01-04           | 36.77<br>24.67     |                     |                    |

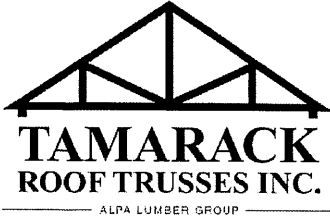
CITY OF RICHMOND HILL  
 BUILDING DIVISION

05/01/2024

RECEIVED  
 Per: joshua.nabua



# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: TRINIGROUP DEVELOPMENTS  
 Location: RICHMOND HILL  
 Model: VILLA 6  
 Lot #:   
 Elevation: 3

Job Track: 53256  
 PlanLog: 207576  
 Layout ID: 435001  
 Ref #  
 Page: 2 of 3  
 Date: 09-25-2023  
 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 | T37Z<br>Jack-Closed<br>Girder | 6 /12 | 3-10-08 | 3-01-04 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>3-01-04           | 36.77<br>24.67   |                     |                    |
|         | 1<br>2-ply | T38<br>Half Hip<br>Girder     | 6 /12 | 3-10-08 | 2-00-08 | 2 x 4<br>2 x 6 |                           | 1-02-00<br>2-00-08           | 36.48<br>27.67   |                     |                    |
|         | 11         | J01<br>Jack-Open              | 6 /12 | 5-10-08 | 4-01-04 | 2 x 4          | 1-03-08                   | 1-02-00<br>4-01-04           | 184.74<br>117.33 |                     |                    |
|         | 2          | J02<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          | J03<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          | J04<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          | J05<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   |                     |                    |
|         | 3          | J11<br>Jack-Open              | 6 /12 | 3-10-08 | 4-01-04 | 2 x 4          | 1-03-08                   | 2-02-00<br>4-01-04           | 44.11<br>27.00   |                     |                    |
|         | 2          | J12<br>Jack-Open              | 6 /12 | 1-09-07 | 3-00-12 | 2 x 4          | 1-03-08<br>2-01-01        | 2-02-00<br>3-00-12           | 24.08<br>15.33   |                     |                    |
|         | 2          | J13<br>Jack-Open              | 6 /12 | 1-09-07 | 3-00-12 | 2 x 4          | 1-03-08<br>1-01           | 2-02-00<br>3-00-12           | 19.52<br>12.67   |                     |                    |
|         | 6          | J14<br>Jack-Open              | 6 /12 | 2-10-08 | 2-01-04 | 2 x 4          |                           | 8-00<br>2-01-04              | 45.65<br>34.00   |                     |                    |
|         | 2          | J15<br>Jack-Open              | 6 /12 | 1-09-00 | 2-00-08 | 2 x 4          | 1-03-08                   | 1-02-00<br>2-00-08           | 16.3<br>11.33    |                     |                    |
|         | 5          | J16<br>Jack-Open              | 4 /12 | 6-04-00 | 2-10-03 | 2 x 4          | 1-03-08                   | 3-11<br>2-02-00              | 82.49<br>53.33   |                     |                    |

TOTAL # TRUSS= 77

TOTAL BFT OF ALL TRUSSES= 2487.16

BFT.

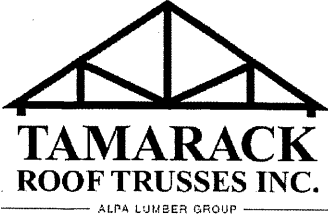
TOTAL WEIGHT OF ALL TRSSES 3954.61 LBS

CITY OF RICHMOND HILL  
 BUILDING DIVISION

05/01/2024

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# DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER  
 Builder: GREEN PARK HOMES  
 Project: TRINIGROUP DEVELOPMENTS  
 Location: RICHMOND HILL  
 Model: VILLA 6  
 Lot #:  
 Elevation: 3

Job Track: 53256  
 PlanLog: 207576  
 Layout ID: 435001  
 Ref #  
 Page: 3 of 3  
 Date: 09-25-2023  
 Designer:  
 Sales Rep: Rick DiCiano

## HARDWARE

| QTY | TYPE     | MODEL    | LENGTH |
|-----|----------|----------|--------|
| 5   | Hardware | H2.5T    |        |
| 1   | Hardware | HGUS26-2 |        |
| 2   | Hardware | LJS26DS  |        |
| 3   | Hardware | LUS24    |        |
| 2   | Hardware | LUS26-2  |        |

TOTAL NUMBER OF ITEMS= 13

CITY OF RICHMOND HILL  
 BUILDING DIVISION

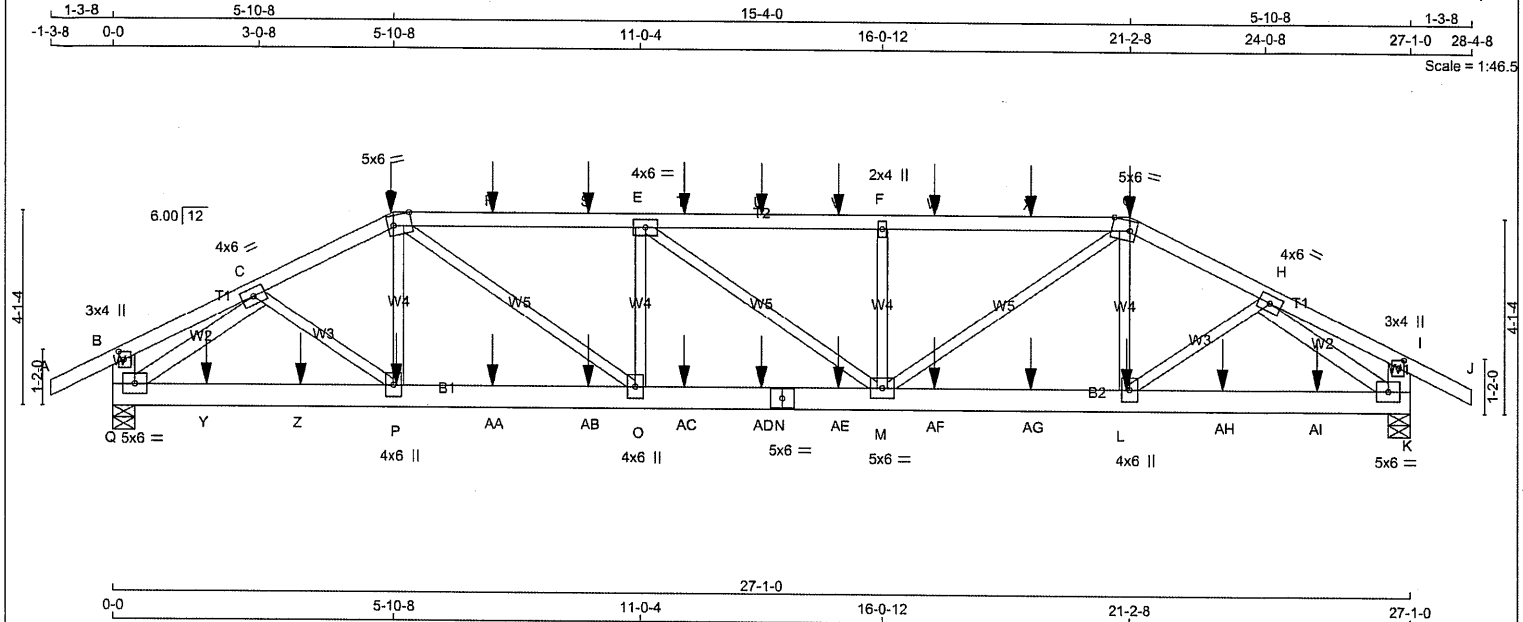
05/01/2024

RECEIVED  
 Per: joshua.nabua

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 434999   | T1         | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:31:58 2023 Page 1  
ID:ApW10ITFUUp4qggnoQJW59yiKbP-lIcSyH7m dAlnJ4IY1v5ne4KTTN3enlc2NF79fya8a



TOTAL WEIGHT = 2 X 125 = 250 lb

| LUMBER   | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|----------|-------------------|--------|------|--------|--------|
| A - D    | 2x4               | DRY    | No.2 | SPF    |        |
| D - G    | 2x4               | DRY    | No.2 | SPF    |        |
| G - J    | 2x4               | DRY    | No.2 | SPF    |        |
| Q - B    | 2x6               | DRY    | No.2 | SPF    |        |
| K - I    | 2x6               | DRY    | No.2 | SPF    |        |
| Q - N    | 2x6               | DRY    | No.2 | SPF    |        |
| N - K    | 2x6               | DRY    | No.2 | SPF    |        |
| ALL WEBS | 2x3               | DRY    | No.2 | SPF    |        |
| EXCEPT   |                   |        |      |        |        |
| Q - C    | 2x4               | DRY    | No.2 | SPF    |        |
| H - K    | 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                                    | 12                   | SIDE(61.0)  |
| D - G                                    | 12                   | SIDE(61.0)  |
| G - J                                    | 12                   | SIDE(61.0)  |
| Q - B                                    | 2                    | TOP         |
| K - I                                    | 2                    | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| Q - N                                    | 2                    | SIDE(183.1) |
| N - K                                    | 2                    | SIDE(183.1) |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 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 | REQRD BRG |
|----------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT                    | HORZ                            | DOWN      | UPLIFT    |
| Q        | 2631                    | 0                               | 2631      | 0         |
| K        | 2631                    | 0                               | 2631      | 0         |

#### UNFACTORED REACTIONS

| JT | 1ST CASE | MAX./MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND    | DEAD  | SOIL  |
|----|----------|-------------------------------|-------|-------|-----------|---------|-------|-------|
| Q  | 1860     | 1224 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 636 / 0 | 0 / 0 | 0 / 0 |
| K  | 1860     | 1224 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 636 / 0 | 0 / 0 | 0 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.00 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) | MAX. UNBRACED LENGTH (LC) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |
|--------|-----------|---------------------------|---------------------------|---------------------------|-------|-------|---------------------------|---------------------------|
| FR-TO  |           |                           |                           |                           | FR-TO |       |                           |                           |
| A-B    | 0 / 28    | -91.8                     | -91.8                     | 0.07 (1)                  | 10.00 | C-P   | 0 / 479                   | 0.06 (1)                  |
| B-C    | 0 / 8     | -91.8                     | -91.8                     | 0.06 (1)                  | 10.00 | P-D   | -86 / 101                 | 0.02 (4)                  |
| C-D    | -3846 / 0 | -91.8                     | -91.8                     | 0.10 (1)                  | 4.75  | D-O   | 0 / 1671                  | 0.21 (1)                  |
| D-R    | -4780 / 0 | -91.8                     | -91.8                     | 0.42 (1)                  | 4.00  | O-E   | -821 / 0                  | 0.10 (1)                  |
| R-S    | -4780 / 0 | -91.8                     | -91.8                     | 0.42 (1)                  | 4.00  | E-M   | -19 / 0                   | 0.01 (1)                  |
| S-E    | -4780 / 0 | -91.8                     | -91.8                     | 0.42 (1)                  | 4.00  | M-F   | -826 / 0                  | 0.10 (1)                  |
| E-T    | -4765 / 0 | -91.8                     | -91.8                     | 0.42 (1)                  | 4.01  | G-M   | 0 / 1649                  | 0.20 (1)                  |
| T-U    | -4765 / 0 | -91.8                     | -91.8                     | 0.42 (1)                  | 4.01  | L-G   | -74 / 104                 | 0.02 (4)                  |
| U-V    | -4765 / 0 | -91.8                     | -91.8                     | 0.42 (1)                  | 4.01  | H-K   | 0 / 480                   | 0.06 (1)                  |
| V-F    | -4765 / 0 | -91.8                     | -91.8                     | 0.42 (1)                  | 4.01  | Q-C   | -3827 / 0                 | 0.33 (1)                  |
| F-W    | -4765 / 0 | -91.8                     | -91.8                     | 0.41 (1)                  | 4.02  | H-K   | -3829 / 0                 | 0.33 (1)                  |
| W-X    | -4765 / 0 | -91.8                     | -91.8                     | 0.41 (1)                  | 4.02  |       |                           |                           |
| X-G    | -4765 / 0 | -91.8                     | -91.8                     | 0.41 (1)                  | 4.02  |       |                           |                           |
| G-H    | -3849 / 0 | -91.8                     | -91.8                     | 0.10 (1)                  | 4.75  |       |                           |                           |
| H-I    | 0 / 8     | -91.8                     | -91.8                     | 0.06 (1)                  | 10.00 |       |                           |                           |
| I-J    | 0 / 28    | -91.8                     | -91.8                     | 0.07 (1)                  | 10.00 |       |                           |                           |
| Q-B    | -241 / 0  | 0.0                       | 0.0                       | 0.01 (1)                  | 7.81  |       |                           |                           |
| K-I    | -241 / 0  | 0.0                       | 0.0                       | 0.01 (1)                  | 7.81  |       |                           |                           |

| Q-Y   | 0 / 3044 | -18.5 | -18.5 | 0.24 (1) | 10.00 |
|-------|----------|-------|-------|----------|-------|
| Y-Z   | 0 / 3044 | -18.5 | -18.5 | 0.24 (1) | 10.00 |
| Z-P   | 0 / 3044 | -18.5 | -18.5 | 0.24 (1) | 10.00 |
| P-AA  | 0 / 3426 | -18.5 | -18.5 | 0.25 (1) | 10.00 |
| AA-AB | 0 / 3426 | -18.5 | -18.5 | 0.25 (1) | 10.00 |
| AB-O  | 0 / 3426 | -18.5 | -18.5 | 0.25 (1) | 10.00 |
| O-AC  | 0 / 4780 | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| AC-AD | 0 / 4780 | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| AD-N  | 0 / 4780 | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| N-AE  | 0 / 4780 | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| AE-M  | 0 / 4780 | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| M-AF  | 0 / 3429 | -18.5 | -18.5 | 0.26 (1) | 10.00 |
| AF-AG | 0 / 3429 | -18.5 | -18.5 | 0.26 (1) | 10.00 |
| AG-L  | 0 / 3429 | -18.5 | -18.5 | 0.26 (1) | 10.00 |
| L-AH  | 0 / 3046 | -18.5 | -18.5 | 0.24 (1) | 10.00 |
| AH-AI | 0 / 3046 | -18.5 | -18.5 | 0.24 (1) | 10.00 |
| AI-K  | 0 / 3046 | -18.5 | -18.5 | 0.24 (1) | 10.00 |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.    | LC1  | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| D  | 5-10-8  | -316 | -316 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| G  | 21-2-8  | -316 | -316 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| L  | 21-1-12 | -21  | -21  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.90")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.10")  
ALLOWABLE DEFL. (TL) = L/360 (0.90")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.18")

CSI: TC=0.42/1.00 (D-E:1), BC=0.37/1.00 (M-O:1), WB=0.33/1.00 (H-K: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= 0.88 (M) (INPUT = 0.90)  
JSI METAL= 0.47 (N) (INPUT = 0.95)

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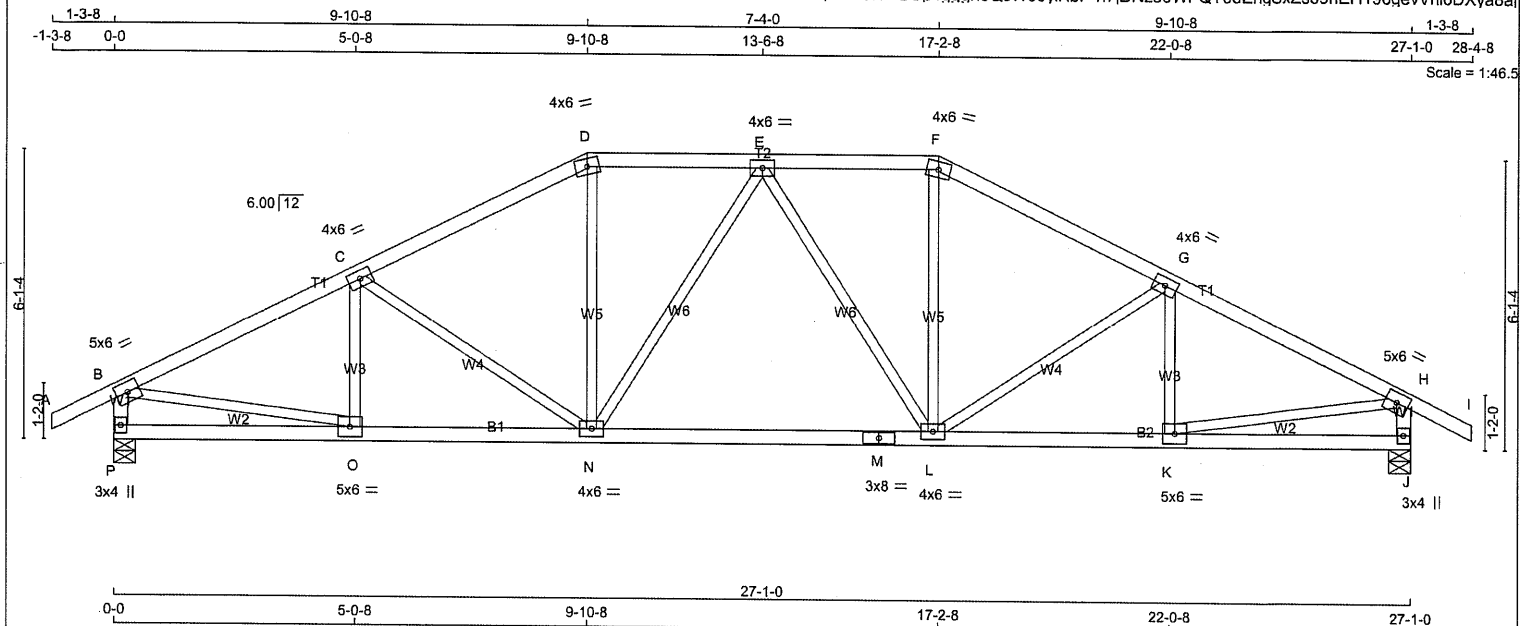
STRUCTURAL COMPONENT ONLY  
DWG # TR23091965





|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>434999</b>       | TRUSS NAME<br><b>T3</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:32:00 2023 Page 1  
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| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - D  | 2x4               | DRY    | No.2 | SPF    |        |
| D - F  | 2x4               | DRY    | No.2 | SPF    |        |
| F - I  | 2x4               | DRY    | No.2 | SPF    |        |
| P - B  | 2x4               | DRY    | No.2 | SPF    |        |
| J - H  | 2x4               | DRY    | No.2 | SPF    |        |
| P - M  | 2x4               | DRY    | No.2 | SPF    |        |
| M - 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                           | TMW-t   | MT20 | 5.0    | 6.0 |     |   |   |
| C, E, G                     |         |      |        |     |     |   |   |
| C                           | TMW-t   | MT20 | 4.0    | 6.0 |     |   |   |
| D                           | TTW-m   | MT20 | 4.0    | 6.0 |     |   |   |
| F                           | TTW-m   | MT20 | 4.0    | 6.0 |     |   |   |
| H                           | TMW-t   | MT20 | 5.0    | 6.0 |     |   |   |
| J                           | BMV1-p  | MT20 | 3.0    | 4.0 |     |   |   |
| K                           | BMWV-t  | MT20 | 5.0    | 6.0 |     |   |   |
| L                           | BMWVW-t | MT20 | 4.0    | 6.0 |     |   |   |
| M                           | BS-t    | MT20 | 3.0    | 8.0 |     |   |   |
| N                           | BMWVW-t | MT20 | 4.0    | 6.0 |     |   |   |
| O                           | BMWV-t  | MT20 | 5.0    | 6.0 |     |   |   |
| P                           | 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                            | UPLIFT | IN-SX     | IN-SX |           |  |
| P        | 1618 | 0                       | 1618 | 0                               | 0      | 5-8       | 1-12  |           |  |
| J        | 1618 | 0                       | 1618 | 0                               | 0      | 5-8       | 1-12  |           |  |

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|-------------------------------|-------|-------|-----------|-------|---------|-------|
| P  | 1142      | 762 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 379 / 0 | 0 / 0 |
| J  | 1142      | 762 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 379 / 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 = 4.38 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

#### LOADING

TOTAL LOAD CASES: (4)

| CHORDS        |             |                  |                  | WEBS          |       |             |              |          |
|---------------|-------------|------------------|------------------|---------------|-------|-------------|--------------|----------|
| MAX. FACTORED |             | FACTORED         |                  | MAX. FACTORED |       |             |              |          |
| MEMB.         | FORCE (LBS) | VERT. LOAD (PLF) | LC1 MAX CSI (LC) | MAX. UNBRAC   | MEMB. | FORCE (LBS) | MAX CSI (LC) |          |
| FR-TO         |             | FROM TO          |                  | LENGTH        | FR-TO |             |              |          |
| A-B           | 0 / 28      | -91.8            | -91.8            | 0.12 (1)      | 10.00 | O-C         | -236 / 0     | 0.05 (1) |
| B-C           | -2095 / 0   | -91.8            | -91.8            | 0.34 (1)      | 4.38  | C-N         | -331 / 0     | 0.21 (1) |
| C-D           | -1837 / 0   | -91.8            | -91.8            | 0.32 (1)      | 4.64  | N-D         | 0 / 510      | 0.11 (1) |
| D-E           | -1630 / 0   | -91.8            | -91.8            | 0.17 (1)      | 5.03  | N-E         | -237 / 0     | 0.21 (1) |
| E-F           | -1630 / 0   | -91.8            | -91.8            | 0.17 (1)      | 5.03  | E-L         | -237 / 0     | 0.21 (1) |
| F-G           | -1837 / 0   | -91.8            | -91.8            | 0.32 (1)      | 4.64  | L-F         | 0 / 510      | 0.11 (1) |
| G-H           | -2095 / 0   | -91.8            | -91.8            | 0.34 (1)      | 4.38  | L-G         | -331 / 0     | 0.21 (1) |
| H-I           | 0 / 28      | -91.8            | -91.8            | 0.12 (1)      | 10.00 | K-G         | -236 / 0     | 0.05 (1) |
| P-B           | -1574 / 0   | 0.0              | 0.0              | 0.16 (1)      | 6.58  | B-O         | 0 / 1921     | 0.43 (1) |
| J-H           | -1574 / 0   | 0.0              | 0.0              | 0.16 (1)      | 6.58  | K-H         | 0 / 1921     | 0.43 (1) |
|               |             |                  |                  |               |       |             |              |          |
| P-O           | 0 / 0       | -18.5            | -18.5            | 0.10 (4)      | 10.00 |             |              |          |
| O-N           | 0 / 1894    | -18.5            | -18.5            | 0.39 (1)      | 10.00 |             |              |          |
| N-M           | 0 / 1753    | -18.5            | -18.5            | 0.37 (1)      | 10.00 |             |              |          |
| M-L           | 0 / 1753    | -18.5            | -18.5            | 0.37 (1)      | 10.00 |             |              |          |
| L-K           | 0 / 1894    | -18.5            | -18.5            | 0.39 (1)      | 10.00 |             |              |          |
| K-J           | 0 / 0       | -18.5            | -18.5            | 0.10 (4)      | 10.00 |             |              |          |

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")  
ALLOWABLE DEFL.(TL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.34/1.00 (B-C:1), BC=0.39/1.00 (N-O:1), WB=0.43/1.00 (B-O:1), SS=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (K) (INPUT = 0.90)  
JSI METAL= 0.51 (B) (INPUT = 0.95)

CITY OF RICHMOND HILL  
BUILDING DIVISION

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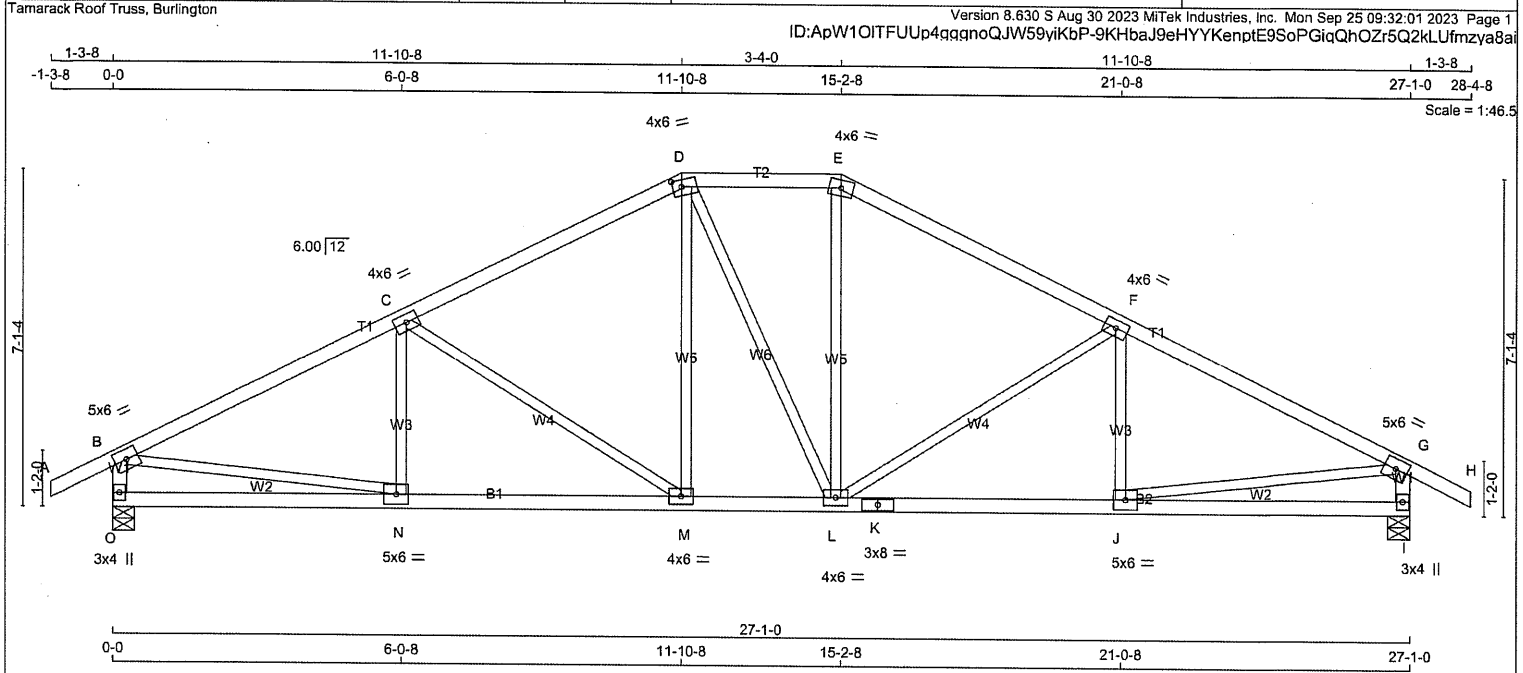
Per: joshua.nabua



STRUCTURAL COMPONENT ONLY  
DWG # TR23091967



|                           |                         |                      |                 |                                      |             |          |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>434999</b> | TRUSS NAME<br><b>T4</b> | QUANTITY<br><b>1</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|-------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|



|                                                  |        |        |         |                                                                                                      |  |  |  |                                                                                                           |  |  |  |
|--------------------------------------------------|--------|--------|---------|------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------------------------------------------------------------------------------|--|--|--|
| <b>LUMBER</b>                                    |        |        |         | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b> |  |  |  | <b>DESIGN CRITERIA</b>                                                                                    |  |  |  |
| N. L. G. A. RULES                                | SIZE   | LUMBER | DESCR.  | <b>BEARINGS</b>                                                                                      |  |  |  | <b>SPECIFIED LOADS:</b>                                                                                   |  |  |  |
| A - D                                            | 2x4    | DRY    | No.2    | <b>UNFACTORED REACTIONS</b>                                                                          |  |  |  | <b>SPACING = 24.0 IN. C/C</b>                                                                             |  |  |  |
| D - E                                            | 2x4    | DRY    | No.2    | <b>LOADING</b>                                                                                       |  |  |  | <b>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12</b>                                                |  |  |  |
| E - H                                            | 2x4    | DRY    | No.2    | <b>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, I</b>                                    |  |  |  | <b>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015</b>          |  |  |  |
| O - B                                            | 2x4    | DRY    | No.2    | <b>BRACING</b>                                                                                       |  |  |  | <b>THIS DESIGN COMPLIES WITH:</b>                                                                         |  |  |  |
| I - G                                            | 2x4    | DRY    | No.2    | <b>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.16 FT.</b>                                    |  |  |  | <b>- PART 9 OF CBC 2018, NBC-2019AE</b>                                                                   |  |  |  |
| O - K                                            | 2x4    | DRY    | No.2    | <b>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.</b>               |  |  |  | <b>- PART 9 OF OBC 2012 (2019 AMENDMENT)</b>                                                              |  |  |  |
| K - I                                            | 2x4    | DRY    | No.2    | <b>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.</b>                    |  |  |  | <b>- CSA 086-14</b>                                                                                       |  |  |  |
| ALL WEBS EXCEPT                                  | 2x3    | DRY    | No.2    | <b>TOTAL LOAD CASES: (4)</b>                                                                         |  |  |  | <b>- TPIC 2014</b>                                                                                        |  |  |  |
| DRY: SEASONED LUMBER.                            |        |        |         | <b>CHORDS</b>                                                                                        |  |  |  | <b>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD</b> |  |  |  |
| <b>PLATES (table is in inches)</b>               |        |        |         | <b>MEMB. FORCE (LBS)</b>                                                                             |  |  |  | <b>ALLOWABLE DEFL. (LL) = L/360 (0.90")</b>                                                               |  |  |  |
| JT TYPE                                          | PLATES | W      | LEN Y X | <b>VERT. LOAD LC1 MAX MAX. UNBRAC LENGTH FR-TO</b>                                                   |  |  |  | <b>CALCULATED VERT. DEFL. (LL) = L/ 999 (0.08")</b>                                                       |  |  |  |
| B TMWV-t                                         | MT20   | 5.0    | 6.0     | <b>FR-TO</b>                                                                                         |  |  |  | <b>ALLOWABLE DEFL. (TL) = L/360 (0.90")</b>                                                               |  |  |  |
| C TMWV-t                                         | MT20   | 4.0    | 6.0     | <b>A-B</b>                                                                                           |  |  |  | <b>CALCULATED VERT. DEFL. (TL) = L/ 999 (0.16")</b>                                                       |  |  |  |
| D TTWV-m                                         | MT20   | 4.0    | 6.0     | <b>B-C</b>                                                                                           |  |  |  | <b>CSI: TC=0.50/1.00 (B-C:1), BC=0.38/1.00 (M-N:1), WB=0.53/1.00 (C-M:1), SSI=0.24/1.00 (F-G:1)</b>       |  |  |  |
| E TTW-m                                          | MT20   | 4.0    | 6.0     | <b>C-D</b>                                                                                           |  |  |  | <b>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10</b>                                                             |  |  |  |
| F TMWV-t                                         | MT20   | 4.0    | 6.0     | <b>D-E</b>                                                                                           |  |  |  | <b>COMP=1.10 SHEAR=1.10 TENS= 1.10</b>                                                                    |  |  |  |
| G TMWV-t                                         | MT20   | 5.0    | 6.0     | <b>E-F</b>                                                                                           |  |  |  | <b>COMPANION LIVE LOAD FACTOR = 1.00</b>                                                                  |  |  |  |
| I BMV1+p                                         | MT20   | 3.0    | 4.0     | <b>F-G</b>                                                                                           |  |  |  | <b>TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .</b> |  |  |  |
| J BMWV-t                                         | MT20   | 5.0    | 6.0     | <b>G-H</b>                                                                                           |  |  |  | <b>NAIL VALUES</b>                                                                                        |  |  |  |
| K BS-t                                           | MT20   | 3.0    | 8.0     | <b>H-I</b>                                                                                           |  |  |  | <b>PLATE GRIP(DRY) SHEAR SECTION</b>                                                                      |  |  |  |
| L BMWV-t                                         | MT20   | 4.0    | 6.0     | <b>I-G</b>                                                                                           |  |  |  | <b>(PSI) (PLI) (PLI)</b>                                                                                  |  |  |  |
| M BMWV-t                                         | MT20   | 4.0    | 6.0     | <b>O-B</b>                                                                                           |  |  |  | <b>MAX MIN MAX MIN MAX MIN</b>                                                                            |  |  |  |
| N BMWV-t                                         | MT20   | 5.0    | 6.0     | <b>O-N</b>                                                                                           |  |  |  | <b>650 371 1747 788 1987 1873</b>                                                                         |  |  |  |
| O BMV1+p                                         | MT20   | 3.0    | 4.0     | <b>N-M</b>                                                                                           |  |  |  | <b>PLATE PLACEMENT TOL. = 0.250 inches</b>                                                                |  |  |  |
| <b>NOTES- (1)</b>                                |        |        |         | <b>M-L</b>                                                                                           |  |  |  | <b>PLATE ROTATION TOL. = 5.0 Deg.</b>                                                                     |  |  |  |
| 1) Lateral braces to be a minimum of 2X4 SPF #2. |        |        |         | <b>L-K</b>                                                                                           |  |  |  | <b>JSI GRIP= 0.83 (B) (INPUT = 0.90 )</b>                                                                 |  |  |  |
|                                                  |        |        |         | <b>K-J</b>                                                                                           |  |  |  | <b>JSI METAL= 0.54 (K) (INPUT = 0.95 )</b>                                                                |  |  |  |
|                                                  |        |        |         | <b>J-I</b>                                                                                           |  |  |  |                                                                                                           |  |  |  |

STRUCTURAL COMPONENT ONLY  
DWG # TR23091968

**CITY OF RICHMOND HILL  
BUILDING DIVISION**

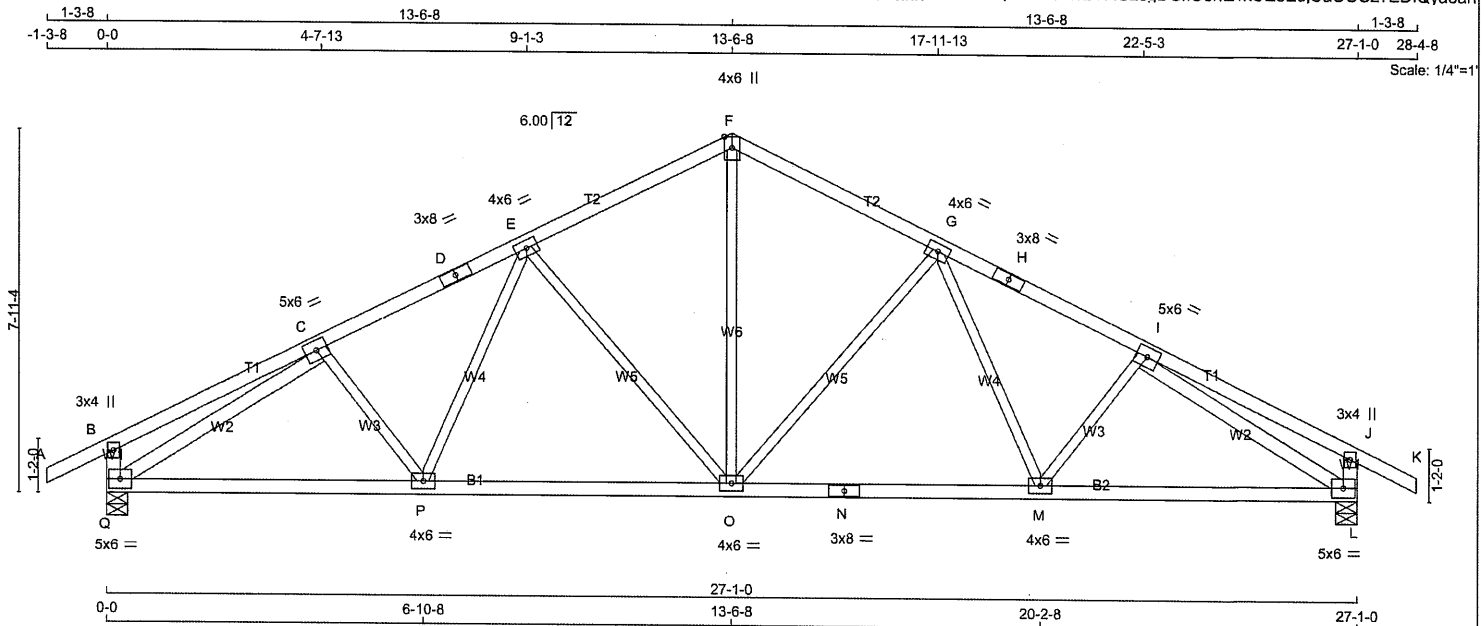
**05/01/2024**

**RECEIVED**  
Per: joshua.nabua

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 434999   | T5         | 16       | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 16 X 114 = 1828 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 - H    | 2x4               | DRY    | No.2 | SPF    |        |
| H - K    | 2x4               | DRY    | No.2 | SPF    |        |
| Q - B    | 2x4               | DRY    | No.2 | SPF    |        |
| L - J    | 2x4               | DRY    | No.2 | SPF    |        |
| Q - N    | 2x4               | DRY    | No.2 | SPF    |        |
| N - L    | 2x4               | DRY    | No.2 | SPF    |        |
| ALL WEBS | 2x3               | DRY    | No.2 | SPF    |        |
| EXCEPT   |                   |        |      |        |        |
| Q - C    | 2x4               | DRY    | No.2 | SPF    |        |
| I - L    | 2x4               | DRY    | No.2 | SPF    |        |

DRY: SEASONED LUMBER.

PLATES (table is in inches)

| JT | TYPE    | PLATES | W   | LEN | Y    | X |
|----|---------|--------|-----|-----|------|---|
| B  | TMV+p   | MT20   | 3.0 | 4.0 |      |   |
| C  | TMWW-t  | MT20   | 5.0 | 6.0 |      |   |
| D  | TS-t    | MT20   | 3.0 | 8.0 |      |   |
| E  | TMWW-t  | MT20   | 4.0 | 6.0 |      |   |
| F  | TTW+p   | MT20   | 4.0 | 6.0 | Edge |   |
| G  | TMWW-t  | MT20   | 4.0 | 6.0 |      |   |
| H  | TS-t    | MT20   | 3.0 | 8.0 |      |   |
| I  | TMWW-t  | MT20   | 5.0 | 6.0 |      |   |
| J  | TMV+p   | MT20   | 3.0 | 4.0 |      |   |
| L  | BMVW1-t | MT20   | 5.0 | 6.0 |      |   |
| M  | BMVW-t  | MT20   | 4.0 | 6.0 |      |   |
| N  | BS-t    | MT20   | 3.0 | 8.0 |      |   |
| O  | BMVWV-t | MT20   | 4.0 | 6.0 |      |   |
| P  | BMVW-t  | MT20   | 4.0 | 6.0 |      |   |
| Q  | BMVW1-t | MT20   | 5.0 | 6.0 |      |   |

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG IN-SX | REQRD BRG IN-SX |
|----------|-------------------------|---------------------------------|-----------------|-----------------|
| JT       | VERT                    | HORZ                            | DOWN            | HORZ            |
| Q        | 1618                    | 0                               | 1618            | 0               |
| L        | 1618                    | 0                               | 1618            | 0               |

UNFACTORED REACTIONS

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | DEAD    | SOIL  |
|-----------|-------------------------------|---------|-------|
| JT        | COMBINED                      |         |       |
| Q         | 1142                          | 762 / 0 | 0 / 0 |
| L         | 1142                          | 762 / 0 | 0 / 0 |

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

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 | MAX. FACTORED | FACTORED             | WEBS  | MAX. FACTORED |
|--------|---------------|----------------------|-------|---------------|
| MEMB.  | FORCE (LBS)   | VERT. LOAD (PLF)     | MEMB. | FORCE (LBS)   |
| FR-TO  |               | FROM TO              | FR-TO |               |
| A-B    | 0 / 28        | -91.8 -91.8 0.12 (1) | O-F   | 0 / 1004      |
| B-C    | 0 / 17        | -91.8 -91.8 0.23 (1) | O-G   | -572 / 0      |
| C-D    | -1995 / 0     | -91.8 -91.8 0.24 (1) | G-M   | 0 / 232       |
| D-E    | -1995 / 0     | -91.8 -91.8 0.24 (1) | M-I   | -96 / 30      |
| E-F    | -1508 / 0     | -91.8 -91.8 0.23 (1) | E-O   | -572 / 0      |
| F-G    | -1508 / 0     | -91.8 -91.8 0.23 (1) | P-E   | 0 / 232       |
| G-H    | -1995 / 0     | -91.8 -91.8 0.24 (1) | C-P   | -96 / 30      |
| H-I    | -1995 / 0     | -91.8 -91.8 0.24 (1) | Q-C   | -2237 / 0     |
| I-J    | 0 / 17        | -91.8 -91.8 0.23 (1) | L-L   | -2237 / 0     |
| J-K    | 0 / 28        | -91.8 -91.8 0.12 (1) |       |               |
| Q-B    | -296 / 0      | 0.0 0.0 0.03 (1)     |       |               |
| L-J    | -296 / 0      | 0.0 0.0 0.03 (1)     |       |               |
| Q-P    | 0 / 1842      | -18.5 -18.5 0.40 (1) |       |               |
| P-O    | 0 / 1697      | -18.5 -18.5 0.37 (1) |       |               |
| O-N    | 0 / 1697      | -18.5 -18.5 0.37 (1) |       |               |
| N-M    | 0 / 1697      | -18.5 -18.5 0.37 (1) |       |               |
| M-L    | 0 / 1842      | -18.5 -18.5 0.40 (1) |       |               |

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")  
ALLOWABLE DEFL.(TL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

CSI: TC=0.24/1.00 (C-E:1) , BC=0.40/1.00 (P-Q:1) ,  
WB=0.80/1.00 (C-Q:1) , SSI=0.17/1.00 (I-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (O) (INPUT = 0.90 )  
JSI METAL= 0.55 (N) (INPUT = 0.95 )

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED  
Per: joshua.nabua

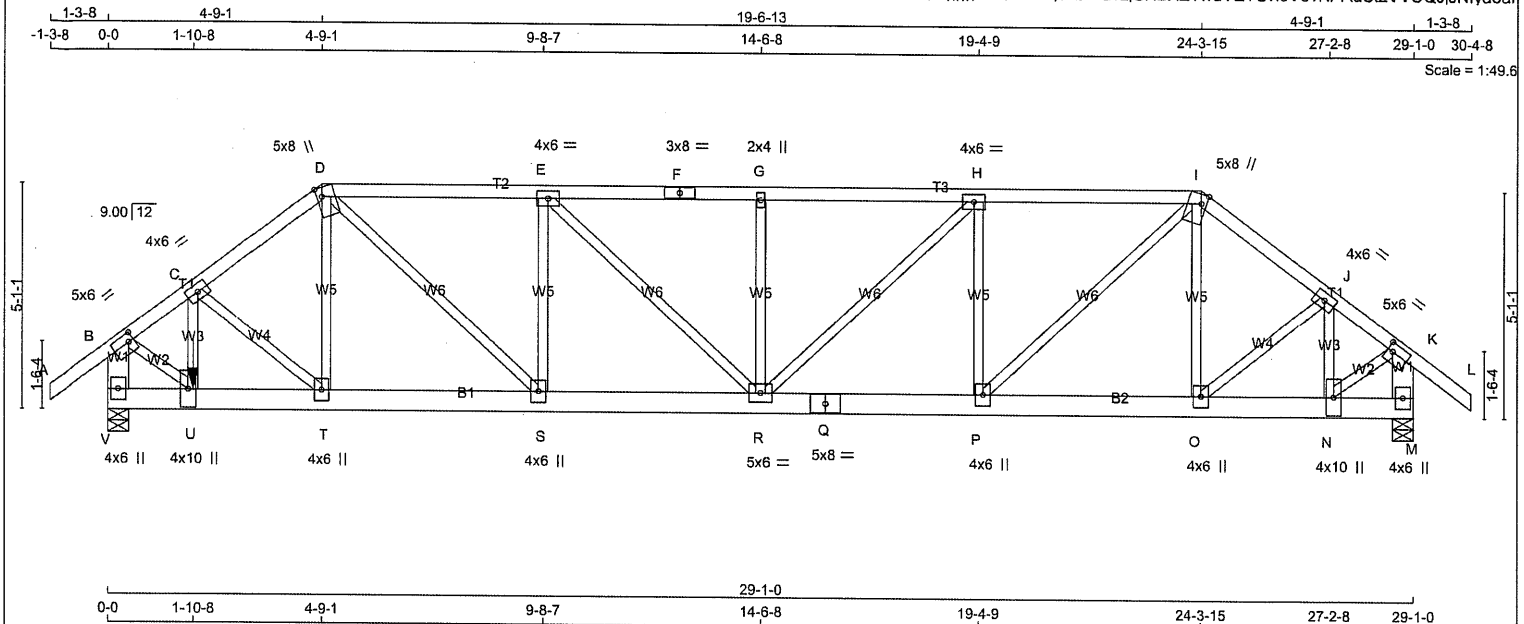


STRUCTURAL COMPONENT ONLY  
DWG # TR23091969

|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>434999</b>       | TRUSS NAME<br><b>T6</b> | QUANTITY<br><b>1</b> | PLY<br><b>2</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

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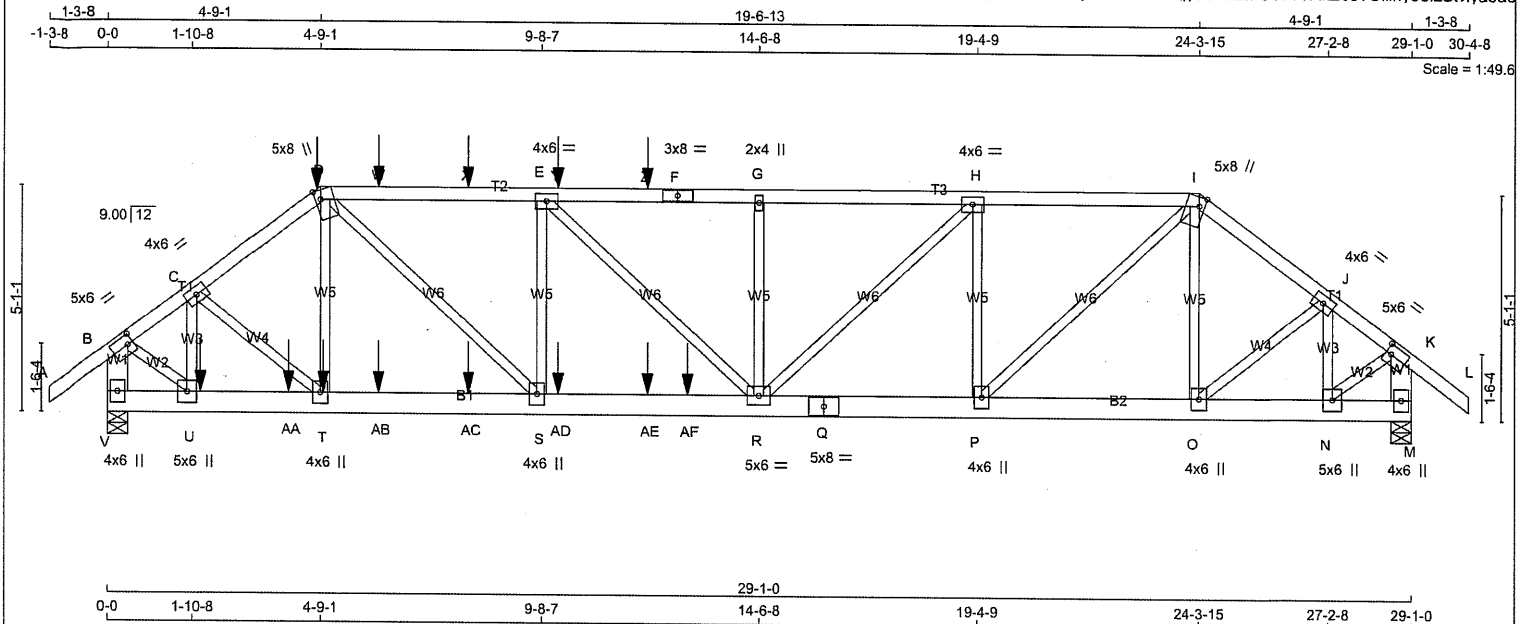




|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 434999   | T6Z        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 146 = 293 lb

| LUMBER          | N. L. G. A. RULES | SIZE | LUMBER | DESCR. |
|-----------------|-------------------|------|--------|--------|
| CHORDS          |                   |      |        |        |
| A - D           | 2x4               | DRY  | No.2   | SPF    |
| D - F           | 2x4               | DRY  | No.2   | SPF    |
| F - I           | 2x4               | DRY  | No.2   | SPF    |
| I - L           | 2x4               | DRY  | No.2   | SPF    |
| V - B           | 2x6               | DRY  | No.2   | SPF    |
| M - K           | 2x6               | DRY  | No.2   | SPF    |
| V - Q           | 2x6               | DRY  | No.2   | SPF    |
| Q - M           | 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                   | SIDE(61.0)  |
| D-F 1                                    | 12                   | SIDE(61.0)  |
| F-I 1                                    | 12                   | TOP         |
| I-L 1                                    | 12                   | TOP         |
| V-B 2                                    | 12                   | TOP         |
| M-K 2                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| V-Q 2                                    | 12                   | SIDE(183.1) |
| Q-M 2                                    | 12                   | TOP         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3 1                                    | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| BEARINGS |                | FACTORED |      | MAXIMUM FACTORED |      | INPUT |        | REQRD |       |
|----------|----------------|----------|------|------------------|------|-------|--------|-------|-------|
| JT       | GROSS REACTION | VERT     | HORZ | GROSS REACTION   | DOWN | HORZ  | UPLIFT | BRG   | IN-SX |
| V        | 3043           | 0        | 0    | 3043             | 0    | 0     | 0      | 5-8   | 1-10  |
| M        | 2434           | 0        | 0    | 2434             | 0    | 0     | 0      | 5-8   | 1-8   |

| UNFACTORED REACTIONS |          | 1ST LCASE |       | MAX./MIN. COMPONENT REACTIONS |       |
|----------------------|----------|-----------|-------|-------------------------------|-------|
| JT                   | COMBINED | SNOW      | LIVE  | PERM.LIVE                     | WIND  |
| V                    | 2152     | 1415 / 0  | 0 / 0 | 0 / 0                         | 0 / 0 |
| M                    | 1718     | 1146 / 0  | 0 / 0 | 0 / 0                         | 0 / 0 |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.08 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         |                           | W E B S |                           |
|--------|---------------------------|------------------|---------------------------|---------|---------------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | MEMB.   | MAX. FACTORED FORCE (LBS) |
| FR-TO  |                           |                  |                           | FR-TO   |                           |
| A-B    | 0 / 38                    | -91.8 -91.8      | 0.07 (1)                  | T-D     | -442 / 0                  |
| B-C    | -2589 / 0                 | -91.8 -91.8      | 0.09 (1)                  | D-S     | 0 / 2371                  |
| C-D    | -3248 / 0                 | -91.8 -91.8      | 0.10 (1)                  | S-E     | -1090 / 0                 |
| D-W    | -4374 / 0                 | -91.8 -91.8      | 0.36 (1)                  | E-R     | 0 / 499                   |
| W-X    | -4374 / 0                 | -91.8 -91.8      | 0.36 (1)                  | R-G     | -438 / 0                  |
| X-E    | -4374 / 0                 | -91.8 -91.8      | 0.36 (1)                  | R-H     | 0 / 1508                  |
| E-Y    | -4732 / 0                 | -91.8 -91.8      | 0.37 (1)                  | P-H     | -1547 / 0                 |
| Y-Z    | -4732 / 0                 | -91.8 -91.8      | 0.37 (1)                  | C-T     | 0 / 2173                  |
| Z-F    | -4732 / 0                 | -91.8 -91.8      | 0.37 (1)                  | O-I     | -237 / 0                  |
| F-G    | -4732 / 0                 | -91.8 -91.8      | 0.37 (1)                  | B-U     | 0 / 2391                  |
| G-H    | -4732 / 0                 | -91.8 -91.8      | 0.28 (1)                  | N-K     | 0 / 1856                  |
| H-I    | -3651 / 0                 | -91.8 -91.8      | 0.24 (1)                  | U-C     | -1186 / 0                 |
| I-J    | -2617 / 0                 | -91.8 -91.8      | 0.08 (1)                  | N-J     | -990 / 0                  |
| J-K    | -2012 / 0                 | -91.8 -91.8      | 0.08 (1)                  | C-T     | 0 / 794                   |
| K-L    | 0 / 38                    | -91.8 -91.8      | 0.07 (1)                  | O-J     | 0 / 633                   |
| V-B    | -3001 / 0                 | 0.0 0.0          | 0.11 (1)                  |         |                           |
| M-K    | -2381 / 0                 | 0.0 0.0          | 0.09 (1)                  |         |                           |
| V-U    | 0 / 0                     | -18.5 -18.5      | 0.02 (1)                  |         |                           |
| U-AA   | 0 / 2058                  | -18.5 -18.5      | 0.16 (1)                  |         |                           |
| AA-T   | 0 / 2058                  | -18.5 -18.5      | 0.16 (1)                  |         |                           |
| T-AB   | 0 / 2655                  | -18.5 -18.5      | 0.28 (1)                  |         |                           |
| AB-AC  | 0 / 2655                  | -18.5 -18.5      | 0.28 (1)                  |         |                           |
| AC-S   | 0 / 2655                  | -18.5 -18.5      | 0.28 (1)                  |         |                           |
| S-AD   | 0 / 4374                  | -18.5 -18.5      | 0.62 (1)                  |         |                           |
| AD-AE  | 0 / 4374                  | -18.5 -18.5      | 0.62 (1)                  |         |                           |
| AE-AF  | 0 / 4374                  | -18.5 -18.5      | 0.62 (1)                  |         |                           |
| AF-R   | 0 / 4374                  | -18.5 -18.5      | 0.62 (1)                  |         |                           |
| R-Q    | 0 / 3651                  | -18.5 -18.5      | 0.37 (1)                  |         |                           |
| Q-P    | 0 / 3651                  | -18.5 -18.5      | 0.37 (1)                  |         |                           |
| P-O    | 0 / 2076                  | -18.5 -18.5      | 0.18 (1)                  |         |                           |
| O-N    | 0 / 1597                  | -18.5 -18.5      | 0.14 (1)                  |         |                           |
| N-M    | 0 / 0                     | -18.5 -18.5      | 0.02 (1)                  |         |                           |

|       |          |       |       |          |       |
|-------|----------|-------|-------|----------|-------|
| V- U  | 0 / 0    | -18.5 | -18.5 | 0.02 (1) | 10.00 |
| U-AA  | 0 / 2058 | -18.5 | -18.5 | 0.16 (1) | 10.00 |
| AA- T | 0 / 2058 | -18.5 | -18.5 | 0.16 (1) | 10.00 |
| T-AB  | 0 / 2655 | -18.5 | -18.5 | 0.28 (1) | 10.00 |
| AB-AC | 0 / 2655 | -18.5 | -18.5 | 0.28 (1) | 10.00 |
| AC- S | 0 / 2655 | -18.5 | -18.5 | 0.28 (1) | 10.00 |
| S-AD  | 0 / 4374 | -18.5 | -18.5 | 0.62 (1) | 10.00 |
| AD-AE | 0 / 4374 | -18.5 | -18.5 | 0.62 (1) | 10.00 |
| AE-AF | 0 / 4374 | -18.5 | -18.5 | 0.62 (1) | 10.00 |
| AF- R | 0 / 4374 | -18.5 | -18.5 | 0.62 (1) | 10.00 |
| R- Q  | 0 / 3651 | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| Q- P  | 0 / 3651 | -18.5 | -18.5 | 0.37 (1) | 10.00 |
| P- O  | 0 / 2076 | -18.5 | -18.5 | 0.18 (1) | 10.00 |
| O- N  | 0 / 1597 | -18.5 | -18.5 | 0.14 (1) | 10.00 |
| N- M  | 0 / 0    | -18.5 | -18.5 | 0.02 (1) | 10.00 |

### DESIGN CRITERIA

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

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

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

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

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.10")  
ALLOWABLE DEFL.(TL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.19")

CSI: TC=0.37/1.00 (E-G:1) . BC=0.62/1.00 (R-S:1),  
WB=0.30/1.00 (B-U:1) , SSI=0.27/1.00 (R-S:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

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

PLATE TENSION TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

RECEIVED  
Per: joshua.nabua





|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 434999   | T6Z        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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**PLATES (table is in inches)**

| JT         | TYPE   | PLATES | W   | LEN | Y    | X    |
|------------|--------|--------|-----|-----|------|------|
| B          | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 1.50 |
| C, E, H, J |        |        |     |     |      |      |
| C          | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| D          | TTWW+m | MT20   | 5.0 | 8.0 | Edge | 1.50 |
| F          | TS-t   | MT20   | 3.0 | 8.0 |      |      |
| G          | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| I          | TTWW+m | MT20   | 5.0 | 8.0 | Edge | 1.50 |
| K          | TMVW-l | MT20   | 5.0 | 6.0 | 2.50 | 1.50 |
| M          | BMV1+p | MT20   | 4.0 | 6.0 |      |      |
| N          | BMVW+t | MT20   | 5.0 | 6.0 |      |      |
| O, P, S, T |        |        |     |     |      |      |
| O          | BMVW+t | MT20   | 4.0 | 6.0 |      |      |
| Q          | BS-t   | MT20   | 5.0 | 8.0 |      |      |
| R          | BMVW+t | MT20   | 5.0 | 6.0 |      |      |
| U          | BMVW+t | MT20   | 5.0 | 6.0 |      |      |
| V          | BMV1+p | MT20   | 4.0 | 6.0 |      |      |

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

**NOTES-** (1)

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

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|------|------|-------|------|-------|
| X  | 8-0-12  | -59  | -59  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Y  | 10-0-12 | -59  | -59  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Z  | 12-0-12 | -59  | -59  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AA | 4-0-12  | -14  | -14  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AB | 6-0-12  | -14  | -14  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AC | 8-0-12  | -14  | -14  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AD | 10-0-12 | -14  | -14  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AE | 12-0-12 | -14  | -14  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| AF | 12-11-8 | -786 | -786 | ---  | BACK | VERT | TOTAL | ---  | C1    |

**CONNECTION REQUIREMENTS**

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

JSI GRIP= 0.88 (D) (INPUT = 0.90 )  
JSI METAL= 0.75 (Q) (INPUT = 0.95 )



STRUCTURAL COMPONENT ONLY  
DWG # TR23091971

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

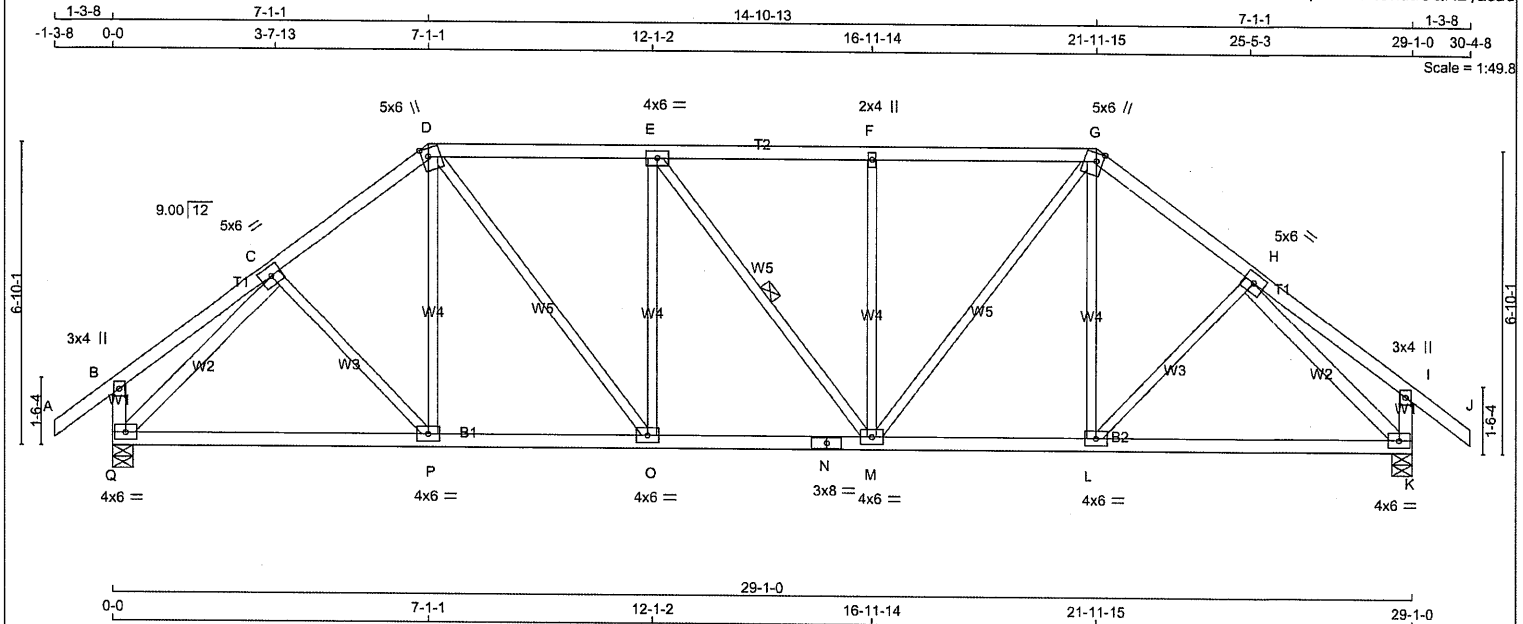
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Per: joshua.nabua



|                                 |                         |                      |                 |                                      |          |
|---------------------------------|-------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>434999</b>       | TRUSS NAME<br><b>T7</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                         |                      |                 | TRUSS DESC.                          |          |

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TOTAL WEIGHT = 3 X 136 = 407 lb

| LUMBER                | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-----------------------|-------------------|--------|------|--------|--------|
| A - D                 | 2x4               | DRY    | No.2 | SPF    |        |
| D - G                 | 2x4               | DRY    | No.2 | SPF    |        |
| G - J                 | 2x4               | DRY    | No.2 | SPF    |        |
| Q - B                 | 2x4               | DRY    | No.2 | SPF    |        |
| K - I                 | 2x4               | DRY    | No.2 | SPF    |        |
| Q - N                 | 2x4               | DRY    | No.2 | SPF    |        |
| N - K                 | 2x4               | DRY    | No.2 | SPF    |        |
| ALL WEBS EXCEPT Q - C | 2x3               | DRY    | No.2 | SPF    |        |
| H - K                 | 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 | 1.75 |
| E       | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| F       | TMVW+w | MT20   | 2.0 | 4.0 |      |      |
| G       | TTWW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| H       | TMVW-t | MT20   | 5.0 | 6.0 |      |      |
| I       | TMV+p  | MT20   | 3.0 | 4.0 |      |      |
| K       | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| L, O, P |        |        |     |     |      |      |
| L       | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| M       | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| N       | BS-t   | MT20   | 3.0 | 8.0 |      |      |
| Q       | BMVW-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 BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| Q  | 1730                    | 0                               | 1730      | 0         |
| K  | 1730                    | 0                               | 1730      | 0         |

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| Q  | 1221     | 815 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 406 / 0 | 0 / 0 |
| K  | 1221     | 815 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 406 / 0 | 0 / 0 |

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

**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.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                  |                        | WEBS  |                           |                        |  |
|--------|---------------------------|------------------|------------------------|-------|---------------------------|------------------------|--|
| MEMB.  | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |  |
| FR-TO  |                           |                  |                        | FR-TO |                           |                        |  |
| A-B    | 0 / 38                    | -91.8            | -91.8 0.12 (1)         | C-P   | 0 / 56                    | 0.02 (4)               |  |
| B-C    | 0 / 21                    | -91.8            | -91.8 0.17 (1)         | P-D   | 0 / 113                   | 0.04 (4)               |  |
| C-D    | -1686 / 0                 | -91.8            | -91.8 0.22 (1)         | D-O   | 0 / 718                   | 0.16 (1)               |  |
| D-E    | -1767 / 0                 | -91.8            | -91.8 0.37 (1)         | O-E   | -490 / 0                  | 0.39 (1)               |  |
| E-F    | -1765 / 0                 | -91.8            | -91.8 0.37 (1)         | E-M   | -3 / 0                    | 0.00 (1)               |  |
| F-G    | -1765 / 0                 | -91.8            | -91.8 0.36 (1)         | M-F   | -489 / 0                  | 0.39 (1)               |  |
| G-H    | -1686 / 0                 | -91.8            | -91.8 0.22 (1)         | M-G   | 0 / 715                   | 0.16 (1)               |  |
| H-I    | 0 / 21                    | -91.8            | -91.8 0.17 (1)         | L-G   | 0 / 114                   | 0.04 (4)               |  |
| I-J    | 0 / 38                    | -91.8            | -91.8 0.12 (1)         | L-H   | 0 / 56                    | 0.02 (4)               |  |
| Q-B    | -252 / 0                  | 0.0              | 0.0 0.03 (1)           | Q-C   | -1931 / 0                 | 0.60 (1)               |  |
| K-I    | -252 / 0                  | 0.0              | 0.0 0.03 (1)           | H-K   | -1931 / 0                 | 0.60 (1)               |  |
| Q-P    | 0 / 1306                  | -18.5            | -18.5 0.32 (1)         |       |                           |                        |  |
| P-O    | 0 / 1330                  | -18.5            | -18.5 0.33 (1)         |       |                           |                        |  |
| O-N    | 0 / 1767                  | -18.5            | -18.5 0.33 (1)         |       |                           |                        |  |
| N-M    | 0 / 1767                  | -18.5            | -18.5 0.33 (1)         |       |                           |                        |  |
| M-L    | 0 / 1330                  | -18.5            | -18.5 0.33 (1)         |       |                           |                        |  |
| L-K    | 0 / 1307                  | -18.5            | -18.5 0.32 (1)         |       |                           |                        |  |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

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

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

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")  
CSI: TC=0.37/1.00 (D-E:1) . BC=0.33/1.00 (M-O:1) ,  
WB=0.60/1.00 (H-K:1) , SS=0.21/1.00 (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= 0.89 (K) (INPUT = 0.90 )  
JSI METAL= 0.54 (N) (INPUT = 0.95 )

**CITY OF RICHMOND HILL  
BUILDING DIVISION**

**05/01/2024**

**RECEIVED**  
Per: joshua.nabua

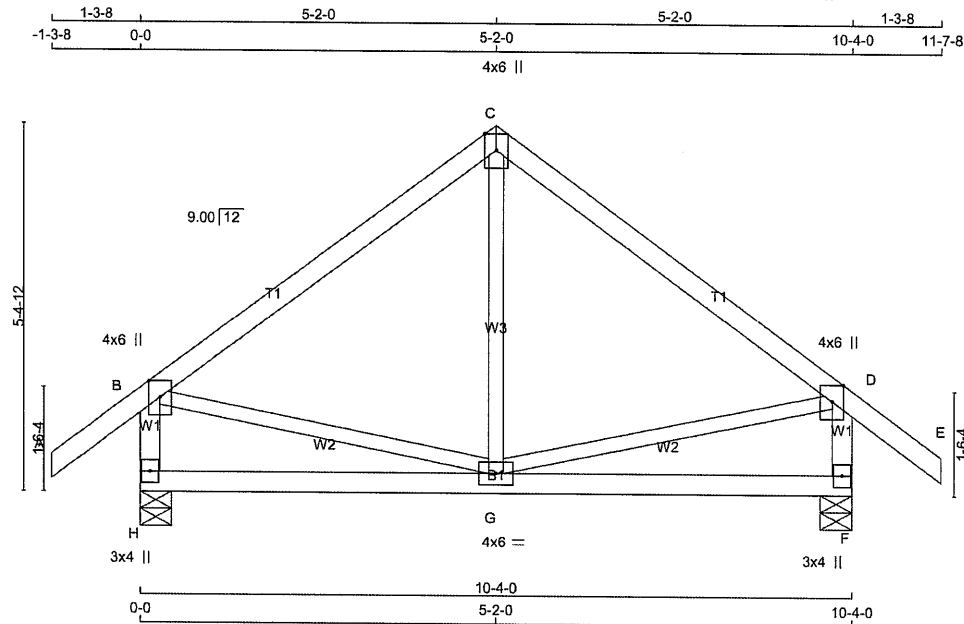


STRUCTURAL COMPONENT ONLY  
DWG # TR23091972



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 434999                          | T10        | 2        | 1   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     |                  |          |

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Scale = 1:32.4

TOTAL WEIGHT = 2 X 45 = 90 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  | TMW+p  | MT20   | 4.0 | 6.0 | Edge |   |
| C  | TTW+p  | MT20   | 4.0 | 6.0 | Edge |   |
| D  | TMW+p  | MT20   | 4.0 | 6.0 | Edge |   |
| F  | BMV1+p | MT20   | 3.0 | 4.0 |      |   |
| G  | BMWW+t | MT20   | 4.0 | 6.0 |      |   |
| H  | 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG IN-SX | REQRD BRG IN-SX |
|----|-------------------------|---------------------------------|-----------------|-----------------|
| JT | VERT                    | HORZ                            | DOWN            | HORZ            |
| H  | 696                     | 0                               | 696             | 0               |
| F  | 696                     | 0                               | 696             | 0               |

##### UNFACTORED REACTIONS

| JT | 1ST LCASE COMBINED | MAX./MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|-------------------------------|-------|-------|-----------|-------|---------|-------|
| H  | 490                | 335 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 155 / 0 | 0 / 0 |
| F  | 490                | 335 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 155 / 0 | 0 / 0 |

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

##### BRACING

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                     | WEBS               |       |                           |                     |
|--------|---------------------------|---------------------------|---------------------|--------------------|-------|---------------------------|---------------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. VERT. LC1 (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. VERT. LC1 (LC) |
| FR-TO  |                           | FROM                      | TO                  |                    | FR-TO |                           |                     |
| A-B    | 0 / 38                    | -91.8                     | -91.8 0.12 (1)      | 10.00              | G-C   | -22 / 81                  | 0.03 (4)            |
| B-C    | -377 / 0                  | -91.8                     | -91.8 0.32 (1)      | 6.25               | B-G   | 0 / 310                   | 0.07 (1)            |
| C-D    | -377 / 0                  | -91.8                     | -91.8 0.32 (1)      | 6.25               | G-D   | 0 / 310                   | 0.07 (1)            |
| D-E    | 0 / 38                    | -91.8                     | -91.8 0.12 (1)      | 10.00              |       |                           |                     |
| H-B    | -659 / 0                  | 0.0                       | 0.0 0.07 (1)        | 7.81               |       |                           |                     |
| F-D    | -659 / 0                  | 0.0                       | 0.0 0.07 (1)        | 7.81               |       |                           |                     |
| H-G    | 0 / 0                     | -18.5                     | -18.5 0.14 (4)      | 10.00              |       |                           |                     |
| G-F    | 0 / 0                     | -18.5                     | -18.5 0.14 (4)      | 10.00              |       |                           |                     |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.32/1.00 (C-D:1) , BC=0.14/1.00 (F-G:4) , WB=0.07/1.00 (B-G: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

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= 0.42 (G) (INPUT = 0.90 )  
JSI METAL= 0.26 (D) (INPUT = 0.95 )



STRUCTURAL COMPONENT ONLY  
DWG # TR23091974

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua



|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 434999                          | T11        | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

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**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TTWW+m  | MT20   | 5.0 | 6.0 | Edge | 1.50 |
| C  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |      |      |
| E  | BMVW+t  | MT20   | 4.0 | 6.0 |      |      |
| F  | BMV1+p  | MT20   | 4.0 | 6.0 |      |      |

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

**NOTES- (1)**

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



STRUCTURAL COMPONENT ONLY  
DWG # TR23091975

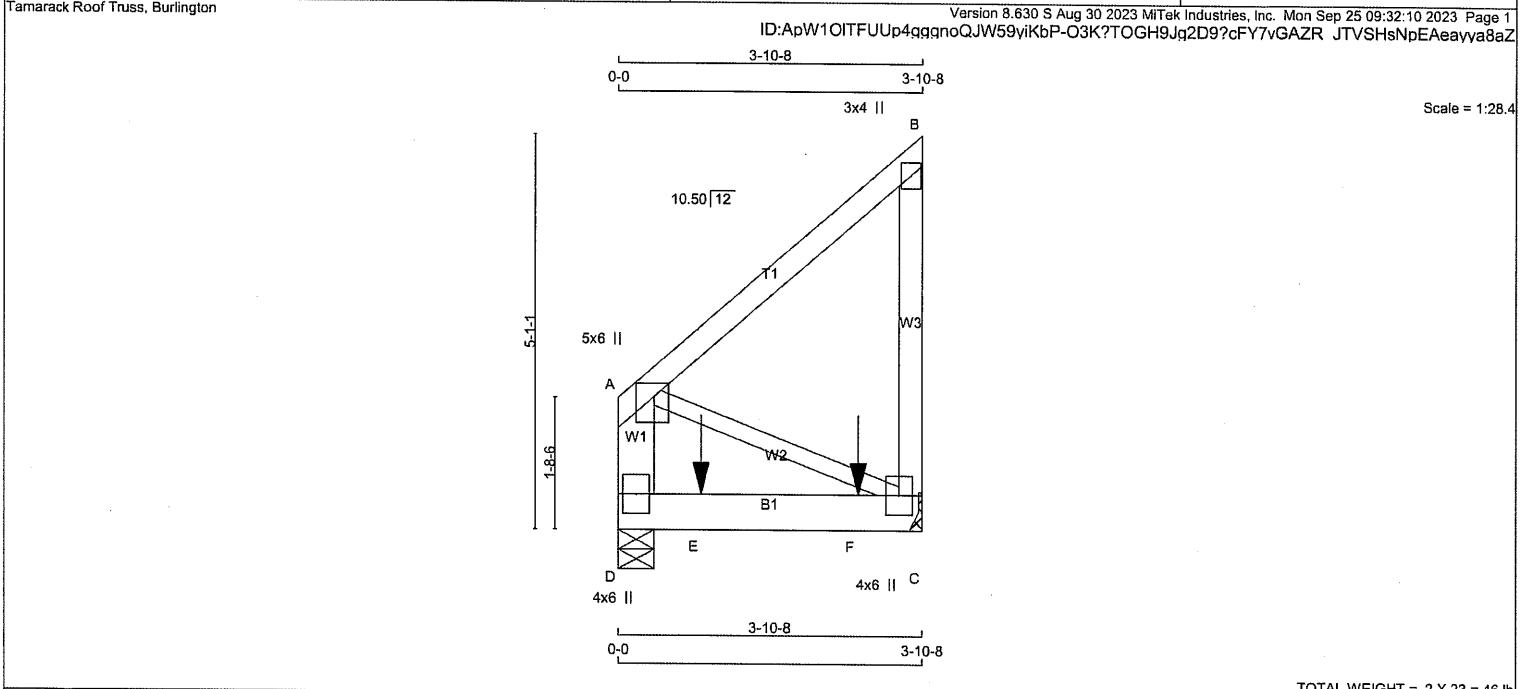
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BUILDING DIVISION

05/01/2024

**RECEIVED**  
Per: joshua.nabua



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 434999   | T12        | 1        | 2   | TRUSS DESC. |                  |          |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
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| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR. SPF<br>D - A 2x6 DRY No.2 SPF<br>A - B 2x4 DRY No.2 SPF<br>C - B 2x4 DRY No.2 SPF<br>D - C 2x6 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<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>D-A 2 12 TOP<br>A-B 1 12 TOP<br>B-C 1 12 TOP<br>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS<br>D-C 2 12 SIDE(0.0)<br>WEBS : (0.122"x3") SPIRAL NAILS<br>2x3 1 6<br>NAILS TO BE DRIVEN FROM ONE SIDE ONLY.<br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br>TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.<br>SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.<br><b>PLATES (table is in inches)</b><br>JT TYPE PLATES W LEN Y X<br>A TMWV+p MT20 5.0 6.0 Edge 2.25<br>B TMV+p MT20 3.0 4.0<br>C BMWV1+p MT20 4.0 6.0<br>D BMV1+p MT20 4.0 6.0 |  |  |  | <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 REQ'D BRG BRG<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>D 1022 0 1022 0 0 5-8 1-8<br>C 1134 0 1134 0 0 MECHANICAL<br>A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT C. MINIMUM BEARING LENGTH AT JOINT C = 1-8.<br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX./MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>D 721 482 / 0 0 / 0 0 / 0 239 / 0 0 / 0<br>C 801 535 / 0 0 / 0 0 / 0 266 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) D<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 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 W E B S<br>MAX. FACTORED MAX. FACTORED MAX. FACTORED<br>MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. FORCE MAX<br>(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)<br>FR-TO FROM TO<br>D-A -178 / 0 0.0 0.0 0.01 (1) 7.81 A-C 0 / 0 0.00 (1)<br>A-B 0 / 0 -91.8 -91.8 0.13 (1) 10.00<br>C-B -178 / 0 0.0 0.0 0.03 (1) 7.81<br>D-E 0 / 0 -18.5 -18.5 0.33 (1) 10.00<br>E-F 0 / 0 -18.5 -18.5 0.33 (1) 10.00<br>F-C 0 / 0 -18.5 -18.5 0.33 (1) 10.00<br>SPECIFIED CONCENTRATED LOADS (LBS)<br>JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.<br>E 1-0-12 -609 -609 — BACK VERT TOTAL — C1<br>F 3-0-12 -610 -610 — BACK 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 = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><b>SPACING = 24.0 IN. C/C</b><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 CBC 2018, NBC-2019AE<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")<br>ALLOWABLE DEFL.(TL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")<br>CSI: TC=0.13/1.00 (A-B:1) , BC=0.33/1.00 (C-D:1) , WB=0.00/1.00 (A-C:1) , SSI=0.32/1.00 (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>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= 0.04 (B) (INPUT = 0.90 )<br>JSI METAL= 0.03 (B) (INPUT = 0.95 ) |  |  |  |
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STRUCTURAL COMPONENT ONLY  
DWG # TR23091976

CITY OF RICHMOND HILL  
BUILDING DIVISION

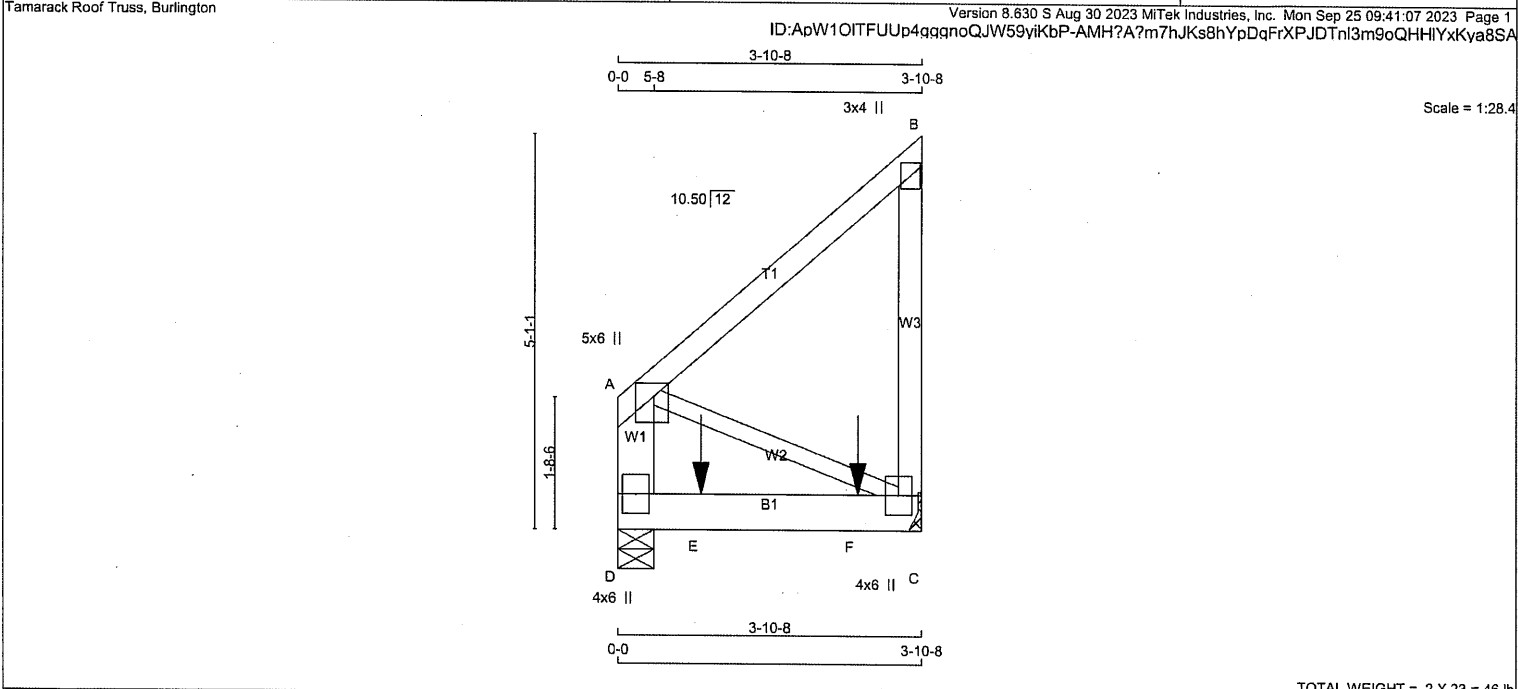
05/01/2024

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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T12Z       | 1        | 2   | TRUSS DESC. |                  |          |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
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| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR. SPF<br>D - A 2x6 DRY No.2 SPF<br>A - B 2x4 DRY No.2 SPF<br>C - B 2x4 DRY No.2 SPF<br>D - C 2x6 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<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>D-A 2 12 TOP<br>A-B 1 12 TOP<br>B-C 1 12 TOP<br>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS<br>D-C 2 12 SIDE(0.0)<br>WEBS : (0.122"x3") SPIRAL NAILS<br>2x3 1 6<br>NAILS TO BE DRIVEN FROM ONE SIDE ONLY.<br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br>TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.<br>SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.<br><b>PLATES (table is in inches)</b><br>JT TYPE PLATES W LEN Y X<br>A TMVW+p MT20 5.0 6.0 Edge 2.25<br>B TMV+p MT20 3.0 4.0<br>C BMVW1+p MT20 4.0 6.0<br>D BMV1+p MT20 4.0 6.0 |  |  |  | <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 REQ'D<br>JT VERT HORZ DOWN HORZ UPLIFT BRG BRG<br>D 871 0 871 0 0 0/0 0/0<br>C 963 0 963 0 0 5-8 1-8<br>MECHANICAL<br>A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT C. MINIMUM BEARING LENGTH AT JOINT C = 1-8.<br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX./MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>D 815 412 / 0 0 / 0 0 / 0 202 / 0 0 / 0<br>C 879 456 / 0 0 / 0 0 / 0 0 / 0 224 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) D<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 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 FACTORED W E B S<br>MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. MAX. FORCE MAX<br>(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)<br>FR-TO FROM TO<br>D-A -178 / 0 0.0 0.0 0.01 (1) 7.81 A-C 0 / 0 0.00 (1)<br>A-B 0 / 0 -91.8 -91.8 0.13 (1) 10.00<br>C-B -178 / 0 0.0 0.0 0.03 (1) 7.81<br>D-E 0 / 0 -18.5 -18.5 0.27 (1) 10.00<br>E-F 0 / 0 -18.5 -18.5 0.27 (1) 10.00<br>F-C 0 / 0 -18.5 -18.5 0.27 (1) 10.00<br><b>SPECIFIED CONCENTRATED LOADS (LBS)</b><br>JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.<br>E 1-0-12 -495 -495 — FRONT VERT TOTAL — C1<br>F 3-0-12 -497 -497 — FRONT VERT TOTAL — C1 |  |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><b>SPACING = 24.0 IN. C/C</b><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 CBC 2018, NBC-2019AE<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")<br>ALLOWABLE DEFL.(TL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")<br>CSI: TC=0.13/1.00 (A-B:1), BC=0.27/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SSI=0.26/1.00 (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>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= 0.04 (B) (INPUT = 0.90 )<br>JSI METAL= 0.03 (B) (INPUT = 0.95 ) |  |  |  |
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STRUCTURAL COMPONENT ONLY  
DWG # TR23091979

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

CITY OF RICHMOND HILL  
BUILDING DIVISION  
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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T12Z       | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:41:07 2023 Page 2  
ID:ApW1OITFUUp4gggnoQJW59yikbP-AMH?A?m7hJKs8hYpDgFrXPJDtnl3m9oQHHiYxKya8SA

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

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



STRUCTURAL COMPONENT ONLY  
DWG # TR23091979

CITY OF RICHMOND HILL  
BUILDING DIVISION  
  
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|          |            |          |     |                                 |          |
|----------|------------|----------|-----|---------------------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.                       | DRWG NO. |
| 435000   | T12Z1      | 1        | 2   | GREEN PARK HOMES<br>TRUSS DESC. |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:41:08 2023 Page 2  
ID:ApW1OITFUUp4gggnoQJW59viKbP-eZqNNLnISdSimr7?nYm43drNDB6YVc2ZWxU6Tmya8S9

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

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



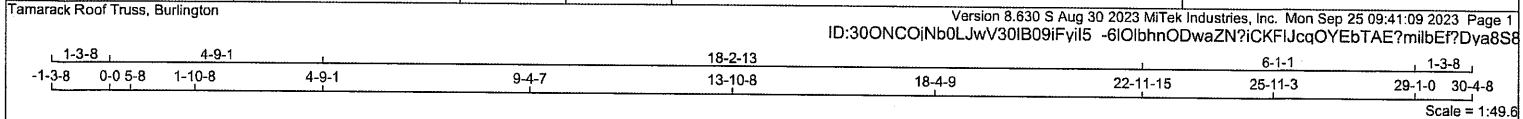
STRUCTURAL COMPONENT ONLY  
DWG # TR23091980

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T20        | 1        | 2   | TRUSS DESC. |                  |          |



| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - D  | 2x4               | DRY    | No.2 | SPF    |        |
| D - F  | 2x4               | DRY    | No.2 | SPF    |        |
| F - I  | 2x4               | DRY    | No.2 | SPF    |        |
| I - L  | 2x4               | DRY    | No.2 | SPF    |        |
| V - B  | 2x6               | DRY    | No.2 | SPF    |        |
| M - K  | 2x6               | DRY    | No.2 | SPF    |        |
| V - Q  | 2x6               | DRY    | No.2 | SPF    |        |
| Q - M  | 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-F 1                                    | 12                   | TOP         |
| F-I 1                                    | 12                   | TOP         |
| I-L 1                                    | 12                   | TOP         |
| V-B 2                                    | 12                   | TOP         |
| M-K 2                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| V-Q 2                                    | 12                   | SIDE(183.1) |
| Q-M 2                                    | 12                   | TOP         |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| C-U 1                                    | 6                    | SIDE(243.5) |
| 2x3 1                                    | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT                    | HORZ                            | DOWN      | UP        |
| V        | 3262                    | 0                               | 3262      | 0         |
| M        | 1832                    | 0                               | 1832      | 0         |

| UNFACTORED REACTIONS | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |
|----------------------|-----------|-------------------------------|
| JT                   | COMBINED  | SNOW                          |
| V                    | 2300      | 1549 / 0                      |
| M                    | 1293      | 863 / 0                       |

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

**BRACING**  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (FT) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (FT) |
|--------|-----------|---------------------------|---------------------------|---------------------------|-------|-------|---------------------------|---------------------------|
| FR-TO  |           |                           |                           |                           | FR-TO |       |                           |                           |
| A-B    | 0 / 38    | -91.8                     | -91.8                     | 0.07 (1)                  | 10.00 | T-D   | 0 / 142                   | 0.02 (1)                  |
| B-C    | -1970 / 0 | -91.8                     | -91.8                     | 0.08 (1)                  | 6.18  | D-S   | 0 / 957                   | 0.12 (1)                  |
| C-D    | -1970 / 0 | -91.8                     | -91.8                     | 0.07 (1)                  | 6.18  | S-E   | -664 / 0                  | 0.18 (1)                  |
| D-E    | -2171 / 0 | -91.8                     | -91.8                     | 0.17 (1)                  | 5.84  | E-R   | 0 / 247                   | 0.03 (1)                  |
| E-F    | -2324 / 0 | -91.8                     | -91.8                     | 0.18 (1)                  | 5.69  | R-G   | -379 / 0                  | 0.11 (1)                  |
| F-G    | -2324 / 0 | -91.8                     | -91.8                     | 0.18 (1)                  | 5.69  | G-H   | 0 / 320                   | 0.04 (1)                  |
| G-H    | -2324 / 0 | -91.8                     | -91.8                     | 0.18 (1)                  | 5.69  | H-I   | -721 / 0                  | 0.20 (1)                  |
| H-I    | -2126 / 0 | -91.8                     | -91.8                     | 0.17 (1)                  | 5.88  | I-J   | 0 / 1038                  | 0.13 (1)                  |
| I-J    | -1865 / 0 | -91.8                     | -91.8                     | 0.08 (1)                  | 6.25  | J-K   | 0 / 59                    | 0.01 (4)                  |
| J-K    | -1737 / 0 | -91.8                     | -91.8                     | 0.08 (1)                  | 6.25  | K-L   | 0 / 104                   | 0.01 (1)                  |
| K-L    | 0 / 38    | -91.8                     | -91.8                     | 0.07 (1)                  | 10.00 | L-M   | -478 / 0                  | 0.06 (1)                  |
| V-B    | -3170 / 0 | 0.0                       | 0.0                       | 0.14 (1)                  | 7.77  | M-N   | 0 / 1488                  | 0.18 (1)                  |
| M-K    | -1789 / 0 | 0.0                       | 0.0                       | 0.06 (1)                  | 7.81  | N-O   | 0 / 18                    | 0.00 (4)                  |
| V-U    | 0 / 0     | -18.5                     | -18.5                     | 0.05 (1)                  | 10.00 | O-P   | -218 / 0                  | 0.03 (1)                  |
| U-T    | 0 / 1562  | -18.5                     | -18.5                     | 0.15 (1)                  | 10.00 | P-Q   | 0 / 2350                  | 0.29 (1)                  |
| T-S    | 0 / 1569  | -18.5                     | -18.5                     | 0.12 (1)                  | 10.00 | Q-R   |                           |                           |
| S-R    | 0 / 2171  | -18.5                     | -18.5                     | 0.16 (1)                  | 10.00 | R-Q   |                           |                           |
| R-Q    | 0 / 2126  | -18.5                     | -18.5                     | 0.16 (1)                  | 10.00 | Q-P   |                           |                           |
| Q-P    | 0 / 2126  | -18.5                     | -18.5                     | 0.16 (1)                  | 10.00 | P-O   |                           |                           |
| P-O    | 0 / 1473  | -18.5                     | -18.5                     | 0.11 (1)                  | 10.00 | O-N   |                           |                           |
| O-N    | 0 / 1404  | -18.5                     | -18.5                     | 0.11 (1)                  | 10.00 | N-M   |                           |                           |
| N-M    | 0 / 0     | -18.5                     | -18.5                     | 0.02 (1)                  | 10.00 |       |                           |                           |

| SPECIFIED CONCENTRATED LOADS (LBS) | JT     | LOC.  | LC1   | MAX. | FACE  | DIR. | TYPE  | HEEL | CONN. |
|------------------------------------|--------|-------|-------|------|-------|------|-------|------|-------|
| U                                  | 1-10-8 | -1151 | -1151 | MAX+ | FRONT | VERT | TOTAL | ---  | C1    |

## CONNECTION REQUIREMENTS

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

## DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.18/1.00 (E-G:1), BC=0.16/1.00 (R-S:1), WB=0.29/1.00 (B-U:1), SSI=0.11/1.00 (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)     | (PLI) | (PLI)   |
| MT20        | 650   | 371       | 1747  | 788     |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)  
JSI METAL = 0.35 (U) (INPUT = 0.95)

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CONTINUED ON PAGE 2



STRUCTURAL COMPONENT ONLY  
DWG # TR23091981



|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 435000   | T20        | 1        | 2   | GREEN PARK HOMES |          |
|          |            |          |     | TRUSS DESC.      |          |

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

| JT            | TYPE     | PLATES | W   | LEN | Y    | X    |
|---------------|----------|--------|-----|-----|------|------|
| B             | TMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 1.50 |
| C, E, H, J    |          |        |     |     |      |      |
| C             | TMVW-t   | MT20   | 4.0 | 6.0 |      |      |
| D             | TTWW+m   | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| F             | TS-t     | MT20   | 3.0 | 8.0 |      |      |
| G             | TMVW+w   | MT20   | 2.0 | 4.0 |      |      |
| I             | TTWW+m   | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| K             | TMVW-t   | MT20   | 5.0 | 6.0 | 2.50 | 1.50 |
| M             | BMV1+p   | MT20   | 4.0 | 6.0 |      |      |
| N             | BMVW-t   | MT20   | 5.0 | 6.0 |      |      |
| O, P, S, T, U |          |        |     |     |      |      |
| O             | BMVW+t   | MT20   | 4.0 | 6.0 |      |      |
| Q             | BS-t     | MT20   | 5.0 | 6.0 |      |      |
| R             | BMVWVW-t | MT20   | 5.0 | 6.0 |      |      |
| V             | BMV1+p   | MT20   | 4.0 | 6.0 |      |      |

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



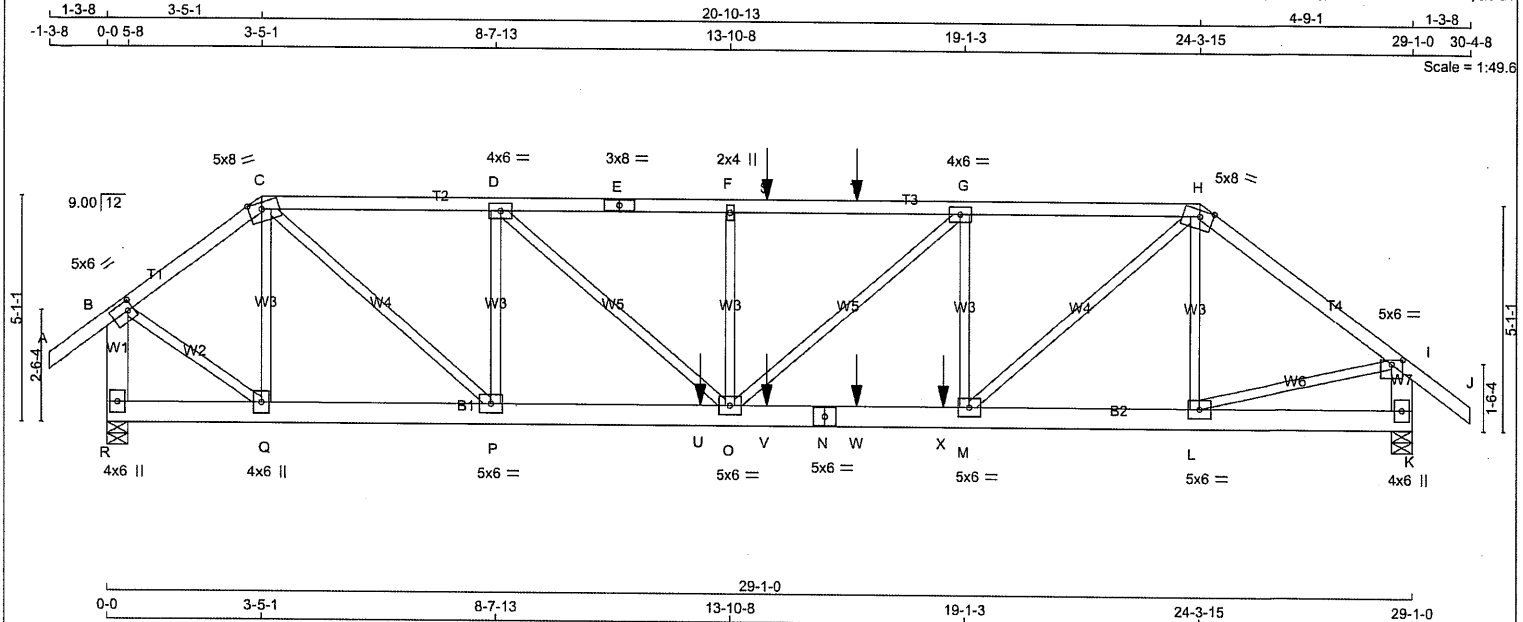
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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T21        | 1        | 2   | TRUSS DESC. |                  |          |

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ID:30ONCOjNb0LJwV30IB09iFvll5 -axy8o1o0 EIQ?78HOuypY92xq9 m3zRRrs FzDYfya8S7



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
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-------------------------------------------------------------------------------------------------------------|--|--|--|
| <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 - H 2x4 DRY No.2 SPF<br>H - J 2x4 DRY No.2 SPF<br>R - B 2x6 DRY No.2 SPF<br>K - I 2x6 DRY No.2 SPF<br>R - N 2x6 DRY No.2 SPF<br>N - K 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 TOP<br>E - H 1 12 SIDE(0.0)<br>H - J 1 12 TOP<br>R - B 2 12 TOP<br>K - I 2 12 TOP<br>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS<br>R - N 2 12 SIDE(0.0)<br>N - K 2 12 SIDE(0.0)<br>WEBS : (0.122"x3") SPIRAL NAILS<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>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>R 2520 0 2520 0 0 5-8 1-8<br>K 2589 0 2589 0 0 5-8 1-8<br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX./MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>R 1776 1197 / 0 0 / 0 0 / 0 579 / 0 0 / 0<br>K 1825 1232 / 0 0 / 0 0 / 0 592 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, K<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.11 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. UNBRAC LENGTH FR-TO<br>MEMB. FORCE (LBS) (PLF) CSI (LC) UNBRAC FR-TO<br>A-B 0 / 38 -91.8 -91.8 0.07 (1) 10.00 Q-C -894 / 0 0.17 (1)<br>B-C -2053 / 0 -91.8 -91.8 0.12 (1) 6.03 C-P 0 / 2644 0.33 (1)<br>C-D -3585 / 0 -91.8 -91.8 0.26 (1) 4.73 P-D -1565 / 0 0.29 (1)<br>D-E -4746 / 0 -91.8 -91.8 0.31 (1) 4.17 D-O 0 / 1563 0.19 (1)<br>E-F -4746 / 0 -91.8 -91.8 0.31 (1) 4.17 O-F -570 / 0 0.11 (1)<br>F-S -4746 / 0 -91.8 -91.8 0.36 (1) 4.11 O-G 0 / 846 0.10 (1)<br>S-T -4746 / 0 -91.8 -91.8 0.36 (1) 4.11 M-G -1164 / 0 0.22 (1)<br>T-G -4746 / 0 -91.8 -91.8 0.36 (1) 4.11 M-H 0 / 2527 0.31 (1)<br>G-H -4118 / 0 -91.8 -91.8 0.33 (1) 4.39 L-H -411 / 0 0.08 (1)<br>H-I -2814 / 0 -91.8 -91.8 0.25 (1) 5.21 B-Q 0 / 1909 0.24 (1)<br>I-J 0 / 38 -91.8 -91.8 0.07 (1) 10.00 L-I 0 / 2305 0.29 (1)<br>R-B -2500 / 0 0.0 0.0 0.11 (1) 7.81<br>K-I -2552 / 0 0.0 0.0 0.09 (1) 7.81<br>R-Q 0 / 0 -18.5 -18.5 0.02 (4) 10.00<br>Q-P 0 / 1618 -18.5 -18.5 0.14 (1) 10.00<br>P-U 0 / 3585 -18.5 -18.5 0.38 (1) 10.00<br>U-O 0 / 3585 -18.5 -18.5 0.38 (1) 10.00<br>O-V 0 / 4118 -18.5 -18.5 0.34 (1) 10.00<br>V-N 0 / 4118 -18.5 -18.5 0.34 (1) 10.00<br>N-W 0 / 4118 -18.5 -18.5 0.34 (1) 10.00<br>W-X 0 / 4118 -18.5 -18.5 0.34 (1) 10.00<br>X-M 0 / 4118 -18.5 -18.5 0.34 (1) 10.00<br>M-L 0 / 2238 -18.5 -18.5 0.16 (1) 10.00<br>L-K 0 / 0 -18.5 -18.5 0.03 (4) 10.00<br><b>SPECIFIED CONCENTRATED LOADS (LBS)</b><br>JT LOC. LC1 MAX. MAX+ FACE DIR. TYPE HEEL CONN.<br>S 14-8-4 -59 -59 --- BACK VERT TOTAL --- C1<br>T 16-8-4 -59 -59 --- BACK VERT TOTAL --- C1<br>U 13-2-8 -665 -665 --- BACK VERT TOTAL --- C1<br>V 14-8-4 -14 -14 --- BACK VERT TOTAL --- C1<br>W 16-8-4 -14 -14 --- BACK VERT TOTAL --- C1<br>X 18-7-8 -348 -348 --- BACK 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 = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><b>SPACING = 24.0 IN. C/C</b><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF CBC 2018, NBC-2019AE<br>- PART 9 OF CBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL) = L/360 (0.97")<br>CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")<br>ALLOWABLE DEFL.(TL) = L/360 (0.97")<br>CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")<br>CSI: TC=0.36/1.00 (F-G:1), BC=0.38/1.00 (O-P:1), WB=0.33/1.00 (C-P:1), SSI=0.30/1.00 (O-P:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00<br>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= 0.88 (H) (INPUT = 0.90 )<br>JSI METAL= 0.37 (N) (INPUT = 0.95 ) |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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STRUCTURAL COMPONENT ONLY  
DWG # TR23091982

CITY OF RICHMOND HILL  
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|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 435000   | T21        | 1        | 2   | GREEN PARK HOMES |          |
|          |            |          |     | TRUSS DESC.      |          |

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

| JT      | TYPE    | PLATES | W   | LEN | Y         | X    |
|---------|---------|--------|-----|-----|-----------|------|
| B       | TMVW-t  | MT20   | 5.0 | 6.0 | 2.50      | 1.50 |
| C       | TTWW-m  | MT20   | 5.0 | 8.0 | 1.75      | 3.25 |
| D       | TMVW-t  | MT20   | 4.0 | 6.0 |           |      |
| E       | TS-t    | MT20   | 3.0 | 8.0 |           |      |
| F       | TMVW-w  | MT20   | 2.0 | 4.0 |           |      |
| G       | TMVW-t  | MT20   | 4.0 | 6.0 |           |      |
| H       | TTWW-m  | MT20   | 5.0 | 8.0 | Edge 3.50 |      |
| I       | TMVW-p  | MT20   | 5.0 | 6.0 | 1.25      | 3.00 |
| K       | BMV1+p  | MT20   | 4.0 | 6.0 |           |      |
| L, M, P |         |        |     |     |           |      |
| L       | BMVW-t  | MT20   | 5.0 | 6.0 |           |      |
| N       | BS-t    | MT20   | 5.0 | 6.0 |           |      |
| O       | BMVWW-t | MT20   | 5.0 | 6.0 |           |      |
| Q       | BMVW-t  | MT20   | 4.0 | 6.0 |           |      |
| R       | BMV1+p  | MT20   | 4.0 | 6.0 |           |      |

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

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



STRUCTURAL COMPONENT ONLY  
DWG # TR23091982

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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T22        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

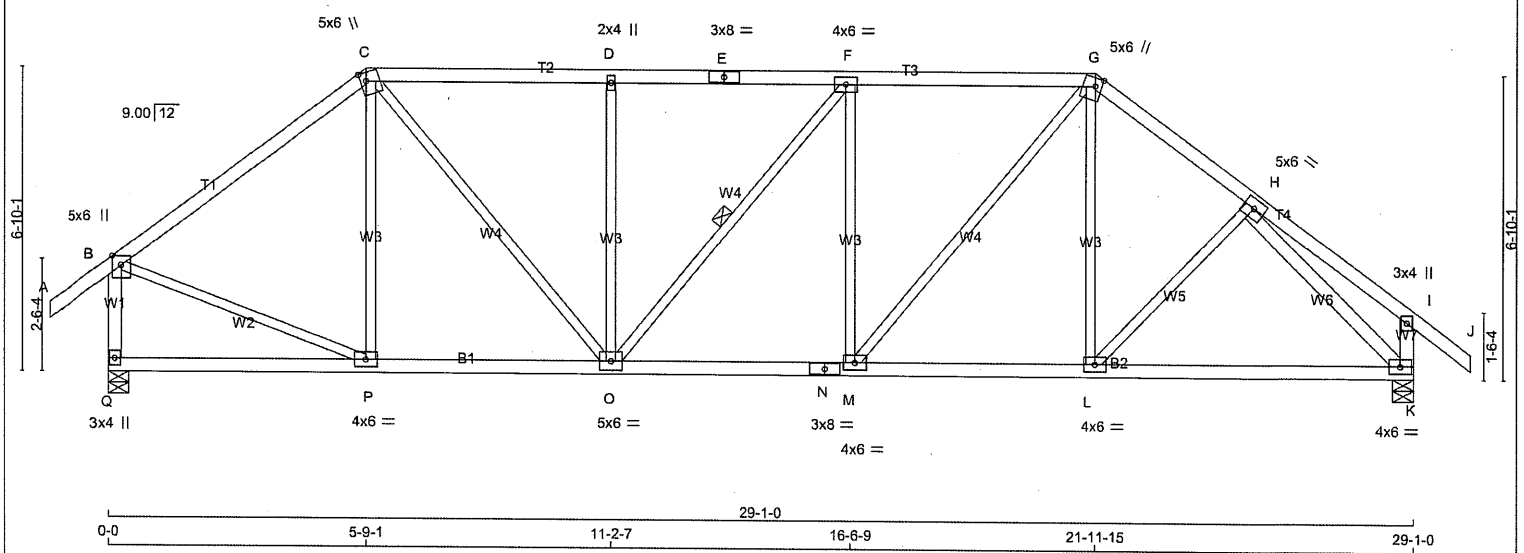
Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:41:11 2023 Page 1

ID:30ONCOjNb0LJwV30IB09iFvii5 -38WW0NpelYrHdlsSgKnhFTmlO6vipP?Cvjm45ya8S6

1-3-8 5-9-1 16-2-13 11-2-7 16-6-9 21-11-15 7-1-1 1-3-8

-1-3-8 0-0 5-8 5-9-1 29-1-0 30-4-8

Scale = 1:49.6



|                                          |     |     |      |                                                                                                      |                                         |          |                  |       |           |        |                                       |                         |                               |  |
|------------------------------------------|-----|-----|------|------------------------------------------------------------------------------------------------------|-----------------------------------------|----------|------------------|-------|-----------|--------|---------------------------------------|-------------------------|-------------------------------|--|
| TOTAL WEIGHT = 132 lb                    |     |     |      |                                                                                                      |                                         |          |                  |       |           |        |                                       |                         |                               |  |
| <b>LUMBER</b>                            |     |     |      | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b> |                                         |          |                  |       |           |        |                                       | <b>DESIGN CRITERIA</b>  |                               |  |
| N. L. G. A. RULES                        |     |     |      | <b>BEARINGS</b>                                                                                      |                                         |          |                  |       |           |        |                                       | <b>SPECIFIED LOADS:</b> |                               |  |
| CHORDS SIZE LUMBER                       |     |     |      |                                                                                                      |                                         |          |                  |       |           |        |                                       |                         |                               |  |
| A - C                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | FACTORED                                |          | MAXIMUM FACTORED |       | INPUT     | REQRD  | TOP CH. LL = 25.6 PSF<br>DL = 6.0 PSF |                         |                               |  |
| C - E                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | GROSS REACTION                          |          | GROSS REACTION   |       | BRG       | BRG    |                                       |                         |                               |  |
| E - G                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | JT                                      | VERT     | HORZ             | DOWN  | HORZ      | UPLIFT | IN-SX                                 | BOT CH. LL = 0.0 PSF    |                               |  |
| G - J                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | Q                                       | 1730     | 0                | 1730  | 0         | 0      | 5-8                                   | DL = 7.4 PSF            |                               |  |
| Q - B                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | K                                       | 1730     | 0                | 1730  | 0         | 0      | 5-8                                   | TOTAL LOAD = 39.0 PSF   |                               |  |
| K - I                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | <b>UNFACTORED REACTIONS</b>             |          |                  |       |           |        |                                       |                         | <b>SPACING = 24.0 IN. C/C</b> |  |
| Q - N                                    | 2x4 | DRY | No.2 | SPF                                                                                                  |                                         |          |                  |       |           |        |                                       |                         |                               |  |
| N - K                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | 1ST LCASE MAX./MIN. COMPONENT REACTIONS |          |                  |       |           |        |                                       |                         |                               |  |
| ALL WEBS EXCEPT                          | 2x3 | DRY | No.2 | SPF                                                                                                  | JT                                      | COMBINED | SNOW             | LIVE  | PERM.LIVE | WIND   | DEAD                                  | SOIL                    |                               |  |
| H - K                                    | 2x4 | DRY | No.2 | SPF                                                                                                  | Q                                       | 1221     | 815 / 0          | 0 / 0 | 0 / 0     | 0 / 0  | 406 / 0                               | 0 / 0                   |                               |  |
|                                          |     |     |      |                                                                                                      | K                                       | 1221     | 815 / 0          | 0 / 0 | 0 / 0     | 0 / 0  | 406 / 0                               | 0 / 0                   |                               |  |
| LOADING IN FLAT SECTION BASED ON A SLOPE |     |     |      |                                                                                                      |                                         |          |                  |       |           |        |                                       |                         |                               |  |

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT H - K 2x4 DRY No.2 SPF

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 132 lb

|                                    |          |        |     |     |           |                                                                                                                                               |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
|------------------------------------|----------|--------|-----|-----|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>PLATES (table is in inches)</b> |          |        |     |     |           | <b>BRACING</b>                                                                                                                                |  |  |  |  |  | OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015                                                                                     |  |  |  |  |  |
| JT                                 | TYPE     | PLATES | W   | LEN | Y X       | TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.50 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. |  |  |  |  |  | THIS DESIGN COMPLIES WITH:<br>- PART 9 OF CBC 2018 , NBC-2019AE<br>- PART 9 OF NBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014 |  |  |  |  |  |
| B                                  | TMVW+p   | MT20   | 5.0 | 6.0 | Edge      | ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.                                                                    |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
| C                                  | TTVWV+m  | MT20   | 5.0 | 6.0 | 2.25 1.50 | 1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-O.                                                                                                      |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
| D                                  | TMW+w    | MT20   | 2.0 | 4.0 |           | END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW                            |  |  |  |  |  | (55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD                                      |  |  |  |  |  |
| E                                  | TS-t     | MT20   | 3.0 | 8.0 |           | <b>LOADING</b>                                                                                                                                |  |  |  |  |  | ALLOWABLE DEFL.(LL)= L/360 (0.97")                                                                                                      |  |  |  |  |  |
| F                                  | TMWV-t   | MT20   | 4.0 | 6.0 |           | TOTAL LOAD CASES: (4)                                                                                                                         |  |  |  |  |  | CALCULATED VERT. DEFL.(LL)= L/ 999 (0.07")                                                                                              |  |  |  |  |  |
| G                                  | TTVWV+m  | MT20   | 5.0 | 6.0 | 2.25 1.75 | <b>CHORDS</b>                                                                                                                                 |  |  |  |  |  | ALLOWABLE DEFL.(TL)= L/360 (0.97")                                                                                                      |  |  |  |  |  |
| H                                  | TMWV-t   | MT20   | 5.0 | 6.0 |           | <b>MEMB.</b>                                                                                                                                  |  |  |  |  |  | CALCULATED VERT. DEFL.(TL)= L/ 999 (0.14")                                                                                              |  |  |  |  |  |
| I                                  | TMV+p    | MT20   | 3.0 | 4.0 |           | <b>MAX. FACTORED</b>                                                                                                                          |  |  |  |  |  | CSI: TO=0.65/1.00 (B-C:1), BC=0.34/1.00 (M-O:1),                                                                                        |  |  |  |  |  |
| K                                  | BMWV1-t  | MT20   | 4.0 | 6.0 |           | <b>FORCE</b>                                                                                                                                  |  |  |  |  |  | WB=0.60/1.00 (H-K:1) CSI=0.29/1.00 (E-G:1)                                                                                              |  |  |  |  |  |
| L, M, P                            |          |        |     |     |           | <b>VERT. LOAD LC1 MAX</b>                                                                                                                     |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
| L                                  | BMWV-t   | MT20   | 4.0 | 6.0 |           | <b>(LBS)</b>                                                                                                                                  |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
| N                                  | BS-t     | MT20   | 3.0 | 8.0 |           | <b>(PLF)</b>                                                                                                                                  |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
| O                                  | BMWVWV-t | MT20   | 5.0 | 6.0 |           | <b>CSI (LC)</b>                                                                                                                               |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
| Q                                  | BMV1+p   | MT20   | 3.0 | 4.0 |           | <b>UNBRAC</b>                                                                                                                                 |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
|                                    |          |        |     |     |           | <b>LENGTH</b>                                                                                                                                 |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
|                                    |          |        |     |     |           | <b>FR-TO</b>                                                                                                                                  |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
|                                    |          |        |     |     |           | <b>FROM TO</b>                                                                                                                                |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
|                                    |          |        |     |     |           | <b>FR-TO</b>                                                                                                                                  |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
|                                    |          |        |     |     |           | <b>(LBS)</b>                                                                                                                                  |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |
|                                    |          |        |     |     |           | <b>CSI (LC)</b>                                                                                                                               |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |

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

NOTES- (1)

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

ALLOWABLE DEFL. (LL) = L/360 (0.97")

CALCULATED VERT. DEFL. (LL) = L/999 (0.07")

ALLOWABLE DEFL. (TL) = L/360 (0.97")

CALCULATED VERT. DEFL. (TL) = L/999 (0.14")

CSI: TC=0.65/1.00 (B-C:1), BC=0.34/1.00 (M-O:1), WB=0.60/1.00 (H-K:1), SSI=0.23/1.00 (F-G:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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

|                                            |  |  |  |                                           |  |  |  |
|--------------------------------------------|--|--|--|-------------------------------------------|--|--|--|
| <b>PLATE PLACEMENT TOL. = 0.250 inches</b> |  |  |  | <b>PLATE ROTATION TOL. = 5.0 Deg.</b>     |  |  |  |
| <b>JSI GRIP= 0.89 (K) (INPUT = 0.90)</b>   |  |  |  | <b>JSI METAL= 0.59 (B) (INPUT = 0.95)</b> |  |  |  |

STRUCTURAL COMPONENT ONLY

DWG # TR23091983

CITY OF RICHMOND HILL

BUILDING DIVISION

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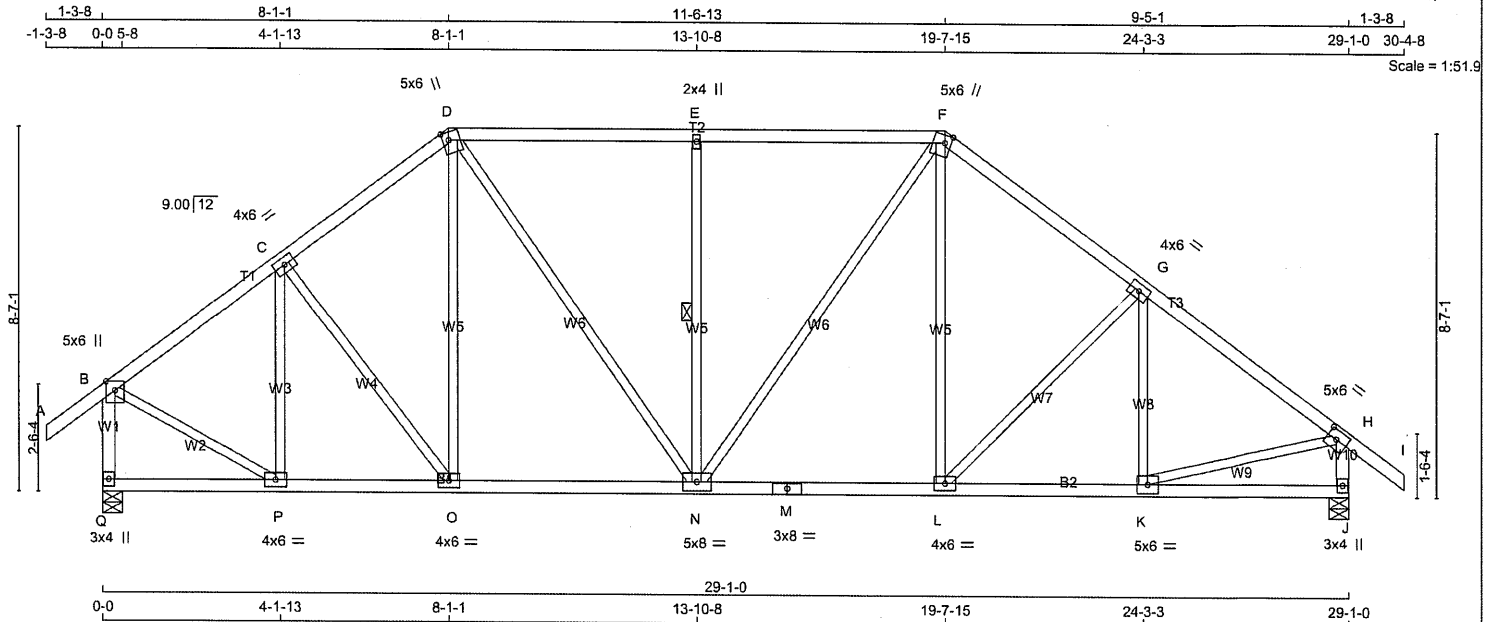




|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T24        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:41:14 2023 Page 1  
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TOTAL WEIGHT = 140 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    |        |
| Q - B  | 2x4               | DRY    | No.2 | SPF    |        |
| J - H  | 2x4               | DRY    | No.2 | SPF    |        |
| Q - M  | 2x4               | DRY    | No.2 | SPF    |        |
| M - 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       | TMVW+p | MT20   | 5.0 | 6.0 | Edge |      |
| C       | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| D       | TTVW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| E       | TMVW+w | MT20   | 2.0 | 4.0 |      |      |
| F       | TTVW+m | MT20   | 5.0 | 6.0 | 2.25 | 1.75 |
| G       | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| H       | TMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| J       | BMV1+p | MT20   | 3.0 | 4.0 |      |      |
| K       | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| L, O, P |        |        |     |     |      |      |
| L       | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| M       | BS-t   | MT20   | 3.0 | 8.0 |      |      |
| N       | BMVW-t | MT20   | 5.0 | 8.0 |      |      |
| Q       | 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| Q  | 1730                    | 0                               | 1730      | 0         |
| J  | 1730                    | 0                               | 1730      | 0         |

##### UNFACTORED REACTIONS

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |         |       |           |       |         |       |
|-----------|-------------------------------|---------|-------|-----------|-------|---------|-------|
| JT        | COMBINED                      | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| Q         | 1221                          | 815 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 406 / 0 | 0 / 0 |
| J         | 1221                          | 815 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 406 / 0 | 0 / 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 = 4.79 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.     | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH | WEBS  | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|--------|-----------|---------------------------|------------------|---------------------------|----------------------|-------|----------|---------------------------|----------------------|
| FR-TO  |           |                           |                  |                           |                      | FR-TO |          |                           |                      |
| A-B    | 0 / 38    | -91.8                     | -91.8            | 0.12 (1)                  | 10.00                | P-C   | -512 / 0 | 0.25 (1)                  |                      |
| B-C    | -1365 / 0 | -91.8                     | -91.8            | 0.21 (1)                  | 5.34                 | C-O   | 0 / 38   | 0.01 (1)                  |                      |
| C-D    | -1450 / 0 | -91.8                     | -91.8            | 0.22 (1)                  | 5.22                 | O-D   | 0 / 84   | 0.03 (4)                  |                      |
| D-E    | -1452 / 0 | -91.8                     | -91.8            | 0.42 (1)                  | 4.93                 | D-N   | 0 / 552  | 0.12 (1)                  |                      |
| E-F    | -1452 / 0 | -91.8                     | -91.8            | 0.42 (1)                  | 4.93                 | N-E   | -650 / 0 | 0.31 (1)                  |                      |
| F-G    | -1579 / 0 | -91.8                     | -91.8            | 0.29 (1)                  | 4.96                 | N-F   | 0 / 372  | 0.08 (1)                  |                      |
| G-H    | -1716 / 0 | -91.8                     | -91.8            | 0.30 (1)                  | 4.79                 | L-F   | 0 / 262  | 0.06 (1)                  |                      |
| H-I    | 0 / 38    | -91.8                     | -91.8            | 0.12 (1)                  | 10.00                | L-G   | -230 / 0 | 0.19 (1)                  |                      |
| Q-B    | -1696 / 0 | 0.0                       | 0.0              | 0.23 (1)                  | 6.38                 | K-G   | -255 / 0 | 0.10 (1)                  |                      |
| J-H    | -1691 / 0 | 0.0                       | 0.0              | 0.18 (1)                  | 6.39                 | B-P   | 0 / 1258 | 0.28 (1)                  |                      |
|        |           |                           |                  |                           |                      | K-H   | 0 / 1439 | 0.32 (1)                  |                      |
| Q-P    | 0 / 0     | -18.5                     | -18.5            | 0.06 (4)                  | 10.00                |       |          |                           |                      |
| P-O    | 0 / 1112  | -18.5                     | -18.5            | 0.23 (1)                  | 10.00                |       |          |                           |                      |
| O-N    | 0 / 1136  | -18.5                     | -18.5            | 0.25 (1)                  | 10.00                |       |          |                           |                      |
| N-M    | 0 / 1239  | -18.5                     | -18.5            | 0.26 (1)                  | 10.00                |       |          |                           |                      |
| M-L    | 0 / 1239  | -18.5                     | -18.5            | 0.26 (1)                  | 10.00                |       |          |                           |                      |
| L-K    | 0 / 1397  | -18.5                     | -18.5            | 0.28 (1)                  | 10.00                |       |          |                           |                      |
| K-J    | 0 / 0     | -18.5                     | -18.5            | 0.09 (4)                  | 10.00                |       |          |                           |                      |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
ALLOWABLE DEFL.(TL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.42/1.00 (D-E:1), BC=0.28/1.00 (K-L:1), WB=0.32/1.00 (H-K:1), SSF=0.26/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (H) (INPUT = 0.90)  
JSI METAL= 0.55 (B) (INPUT = 0.95)



STRUCTURAL COMPONENT ONLY  
DWG # TR23091985

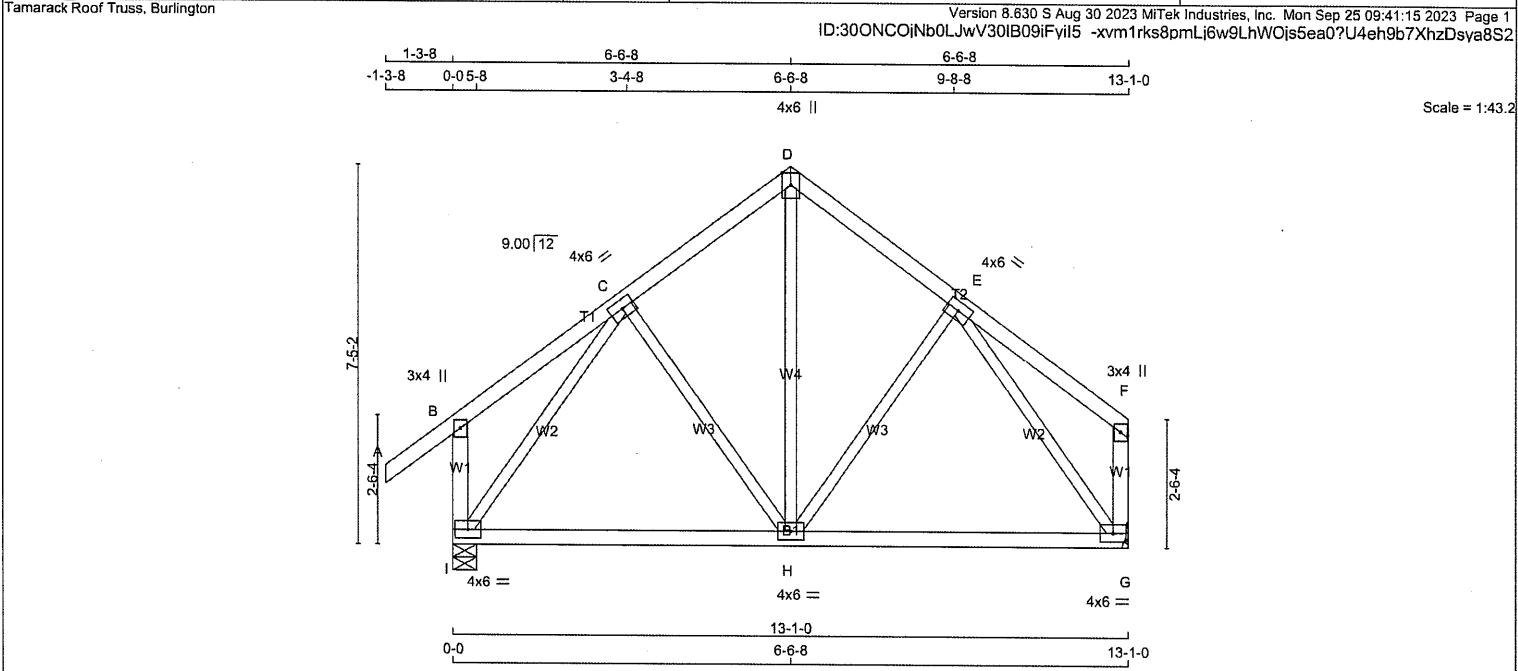
CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED  
Per: joshua.nabua



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T26        | 2        | 1   | TRUSS DESC. |                  |          |



|                                                                                                                                                                                                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |                                         |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------------|--|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER<br>A - D 2x4 DRY No.2<br>D - F 2x4 DRY No.2<br>I - B 2x4 DRY No.2<br>G - F 2x4 DRY No.2<br>I - G 2x4 DRY No.2<br>ALL WEBS 2x3 DRY No.2<br>EXCEPT<br>DRY: SEASONED LUMBER. |  |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br>SPACING = 24.0 IN. C/C<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 CBC 2018 , NBC-2019AE<br>- PART 9 OF CBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.44")<br>CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")<br>ALLOWABLE DEFL.(TL)= L/360 (0.44")<br>CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")<br>CSI: TC=0.16/1.00 (B-C:1) , BC=0.26/1.00 (H-I:4) , WB=0.36/1.00 (C-I:1) , SSI=0.12/1.00 (B-C:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10<br>COMP=1.10 SHEAR=1.10 TENS= 1.10<br>COMPANION LIVE LOAD FACTOR = 1.00<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= 0.42 (G) (INPUT = 0.90 )<br>JSI METAL= 0.15 (E) (INPUT = 0.95 ) |  |  |  | <b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX./MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>I 597 405 / 0 0 / 0 0 / 0 0 / 0 192 / 0 0 / 0<br>G 510 335 / 0 0 / 0 0 / 0 0 / 0 175 / 0 0 / 0<br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) I<br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 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 WEBS MAX. FACTORED<br>MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. FORCE MAX<br>(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)<br>FR-TO FROM TO<br>A-B 0 / 38 -91.8 -91.8 0.12 (1) 10.00 H-D 0 / 289 0.07 (1)<br>B-C 0 / 21 -91.8 -91.8 0.16 (1) 10.00 H-E -85 / 12 0.05 (1)<br>C-D -453 / 0 -91.8 -91.8 0.12 (1) 6.25 C-H -85 / 12 0.05 (1)<br>D-E -452 / 0 -91.8 -91.8 0.12 (1) 6.25 I-C -683 / 0 0.36 (1)<br>E-F 0 / 20 -91.8 -91.8 0.16 (1) 10.00 E-G -683 / 0 0.36 (1)<br>I-B -243 / 0 0.0 0.0 0.03 (1) 7.81<br>G-F -117 / 0 0.0 0.0 0.02 (1) 7.81<br>I-H 0 / 394 -18.5 -18.5 0.26 (4) 10.00<br>H-G 0 / 394 -18.5 -18.5 0.26 (4) 10.00 |  |  |  | TOTAL WEIGHT = 2 X 63 = 127 lb<br>[MJF] |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------------|--|--|--|

9/25/23

C. M. HEYENS

100505065

PROVINCE OF ONTARIO

STRUCTURAL COMPONENT ONLY

DWG # TR23091986

CITY OF RICHMOND HILL

BUILDING DIVISION

05/01/2024

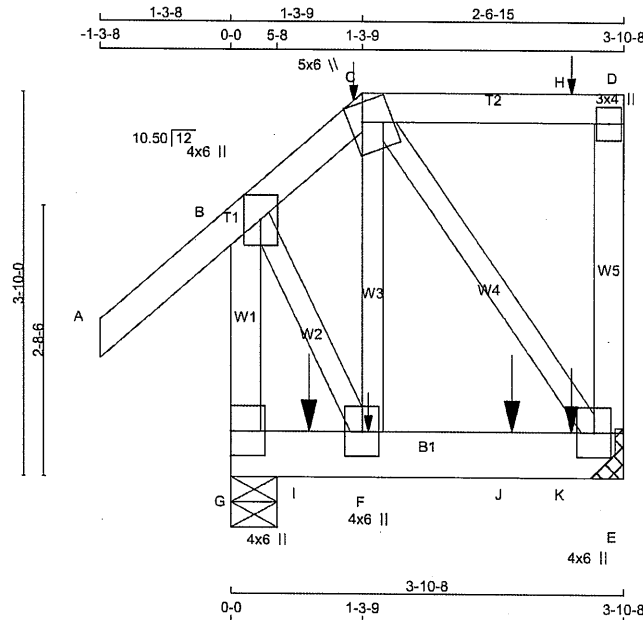
RECEIVED

Per: joshua.nabua

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | T27        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:41:16 2023 Page 1  
ID:30ONCOInb0LJwV30IB09iFyil5 -P5JP34tna4TaI3kYFDwyOJBmNPozNBpMBQXIJya8S1



Scale = 1:22.0

TOTAL WEIGHT = 2 X 27 = 55 lb

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

DRY: SEASONED LUMBER.

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF)   |
|------------------------------------------|----------------------|-------------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |             |
| A - C                                    | 12                   | SIDE(61.0)  |
| C - D                                    | 12                   | SIDE(61.0)  |
| D - E                                    | 12                   | TOP         |
| G - B                                    | 12                   | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| G - E                                    | 12                   | SIDE(122.0) |
| 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+p | MT20 | 4.0 | 6.0 | Edge 2.00 |

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

| BEARINGS |      | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----------|------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT    |
| E        | 1654 | 0                       | 1654                            | 0         | 0         |
| G        | 2102 | 0                       | 2102                            | 0         | 0         |

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

UNFACTORED REACTIONS

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |           |       |           |       |         |       |
|-----------|-------------------------------|-----------|-------|-----------|-------|---------|-------|
| JT        | COMBINED                      | SNOW      | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| E         | 1186                          | 783 / -13 | 0 / 0 | 0 / 0     | 0 / 0 | 383 / 0 | 0 / 0 |
| G         | 1479                          | 1011 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 469 / 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.

LOADING

TOTAL LOAD CASES: (9)

| CHORDS |           | MAX. FACTORED | FACTORED       | WEBS  |       | MAX. FACTORED     |
|--------|-----------|---------------|----------------|-------|-------|-------------------|
| MEMB.  | FORCE     | VERT. LOAD    | MAX. UNBRACED  | MEMB. | FORCE | MAX. UNBRACED     |
|        | (LBS)     | LC1           | CS1 (LC)       |       | (LBS) | CS1 (LC)          |
| FR-TO  |           | FROM          | TO             | FR-TO |       |                   |
| A-B    | 0 / 42    | -91.8         | -91.8 0.11 (5) | 10.00 | F-C   | 0 / 1150 0.14 (1) |
| B-C    | -776 / 0  | -91.8         | -91.8 0.10 (5) | 6.25  | C-E   | -965 / 0 0.14 (1) |
| C-H    | 0 / 0     | -91.8         | -91.8 0.06 (1) | 10.00 | B-F   | 0 / 1038 0.13 (1) |
| H-D    | 0 / 0     | -91.8         | -91.8 0.06 (1) | 10.00 |       |                   |
| E-D    | -118 / 0  | 0.0           | 0.0 0.01 (1)   | 7.81  |       |                   |
| G-B    | -1625 / 0 | 0.0           | 0.0 0.12 (1)   | 7.81  |       |                   |
| G-I    | 0 / 0     | -18.5         | -18.5 0.13 (1) | 10.00 |       |                   |
| I-F    | 0 / 0     | -18.5         | -18.5 0.13 (1) | 10.00 |       |                   |
| F-J    | 0 / 579   | -18.5         | -18.5 0.34 (1) | 10.00 |       |                   |
| J-K    | 0 / 579   | -18.5         | -18.5 0.34 (1) | 10.00 |       |                   |
| K-E    | 0 / 579   | -18.5         | -18.5 0.34 (1) | 10.00 |       |                   |

SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1   | MAX.  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|-------|-------|-------|------|-------|------|-------|------|-------|
| C  | 1-3-9 | 1     | 1     | 79   | BACK  | VERT | TOTAL | ---  | C1    |
| F  | 1-4-5 | 1     | 1     | ---  | BACK  | VERT | TOTAL | ---  | C1    |
| H  | 3-4-5 | 1     | 1     | 67   | BACK  | VERT | TOTAL | ---  | C1    |
| I  | 9-4   | -1128 | -1128 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| J  | 2-9-4 | -1127 | -1127 | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| K  | 3-4-5 | -1    | -1    | ---  | BACK  | 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 = | 25.6 | PSF |
|            | DL = | 6.0  | PSF |
| BOT CH.    | LL = | 0.0  | PSF |
|            | DL = | 7.4  | PSF |
| TOTAL LOAD | =    | 39.0 | PSF |

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

CSI: TC=0.12/1.00 (B-G:1), BC=0.34/1.00 (E-F:1), WB=0.14/1.00 (C-F:1), SSI=0.38/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

| NAIL VALUES | PLATE GRIP(DRY) | SHEAR (PSI) | SECTION (PLI) |
|-------------|-----------------|-------------|---------------|
|             | 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= 0.56 (B) (INPUT = 0.90)

JSI METAL= 0.21 (F) (INPUT = 0.95)

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua

CONTINUED ON PAGE 2



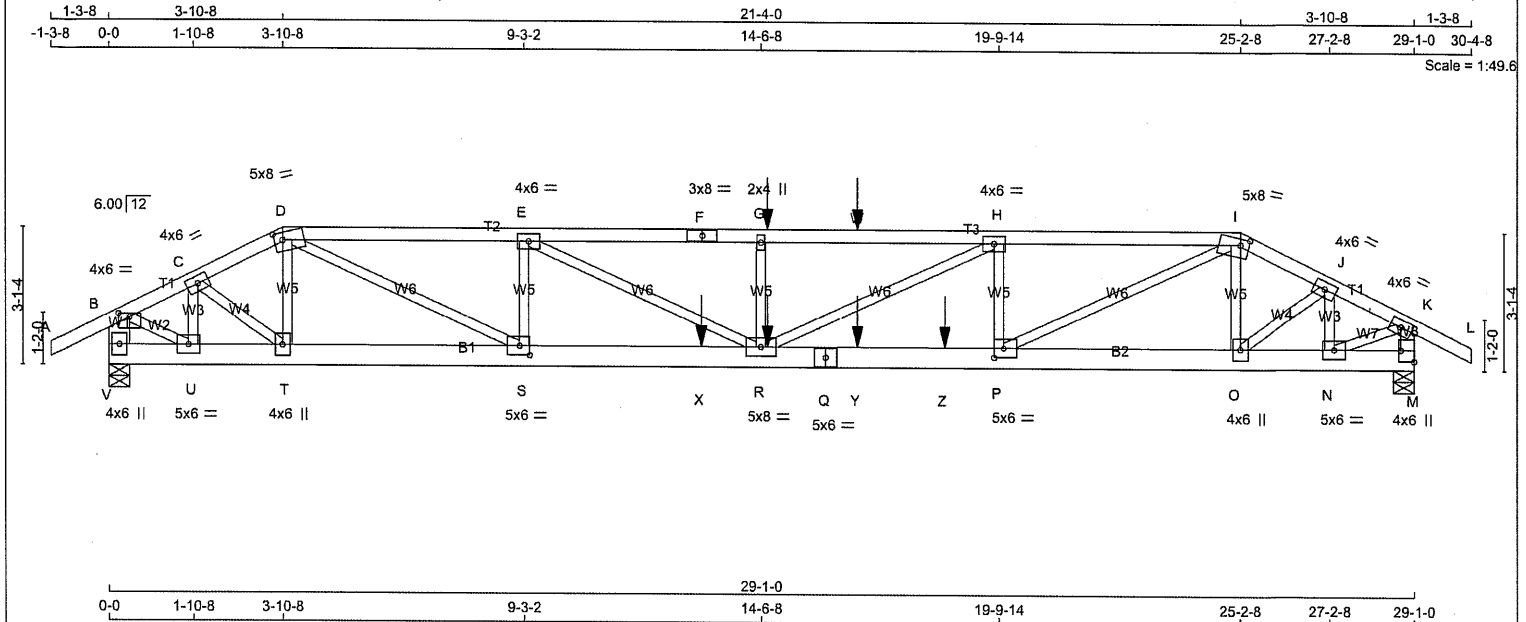
STRUCTURAL COMPONENT ONLY  
DWG # TR23091987



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T30        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:33 2023 Page 1  
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TOTAL WEIGHT = 2 X 128 = 256 lb

8/25/23  
C. M. HEYENS  
100505065

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.23")  
ALLOWABLE DEFL.(TL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/ 830 (0.42")

CSI: TC=0.57/1.00 (G-H:1), BC=0.72/1.00 (P-R:1), WB=0.51/1.00 (I-P:1), SSI=0.22/1.00 (P-R:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (I) (INPUT = 0.90)  
JSI METAL= 0.67 (C) (INPUT = 0.95)

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CONTINUED ON PAGE 5

| LUMBER | 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    |
| I - L  | 2x4    | DRY  | No.2   | SPF    |
| V - B  | 2x6    | DRY  | No.2   | SPF    |
| M - K  | 2x4    | DRY  | No.2   | SPF    |
| V - Q  | 2x6    | DRY  | No.2   | SPF    |
| Q - M  | 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                                      | 12                   | TOP         |
| D-F                                      | 12                   | TOP         |
| F-I                                      | 12                   | SIDE(61.0)  |
| I-L                                      | 12                   | TOP         |
| M-K                                      | 12                   | TOP         |
| V-B                                      | 2                    | TOP         |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |             |
| V-Q                                      | 2                    | SIDE(183.1) |
| Q-M                                      | 2                    | SIDE(0.0)   |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |             |
| 2x3                                      | 6                    |             |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

STRUCTURAL COMPONENT ONLY  
DWG # TR23091994

| 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 |  |  |
| V                                                                                             | 2483     | 0        | 2483             | 0        | 0      | 5-8   | 1-8   |  |  |
| M                                                                                             | 2678     | 0        | 2678             | 0        | 0      | 5-8   | 1-8   |  |  |

| UNFACTORED REACTIONS |          |                               |       |           |       |         |       |  |  |
|----------------------|----------|-------------------------------|-------|-----------|-------|---------|-------|--|--|
| 1ST LCASE            |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |  |  |
| JT                   | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |  |  |
| V                    | 1752     | 1176 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 576 / 0 | 0 / 0 |  |  |
| M                    | 1888     | 1269 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 619 / 0 | 0 / 0 |  |  |

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

BRACING  
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.08 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 LC1 (PLF) | MAX. CSI (LC)  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           | FROM                          | TO             | FR-TO |                           |               |          |
| A-B    | 0 / 28                    | -91.8                         | -91.8 0.07 (1) | 10.00 | U-C                       | -1124 / 0     | 0.09 (1) |
| B-C    | -2630 / 0                 | -91.8                         | -91.8 0.09 (1) | 5.53  | C-T                       | 0 / 972       | 0.12 (1) |
| C-D    | -3453 / 0                 | -91.8                         | -91.8 0.08 (1) | 4.99  | T-D                       | -396 / 0      | 0.04 (1) |
| D-E    | -6317 / 0                 | -91.8                         | -91.8 0.40 (1) | 3.62  | D-S                       | 0 / 3637      | 0.45 (1) |
| E-F    | -8107 / 0                 | -91.8                         | -91.8 0.53 (1) | 3.12  | S-E                       | -1461 / 0     | 0.14 (1) |
| F-G    | -8107 / 0                 | -91.8                         | -91.8 0.53 (1) | 3.12  | E-R                       | 0 / 2015      | 0.25 (1) |
| G-W    | -8107 / 0                 | -91.8                         | -91.8 0.57 (1) | 3.08  | R-G                       | -627 / 0      | 0.06 (1) |
| W-H    | -8107 / 0                 | -91.8                         | -91.8 0.57 (1) | 3.08  | R-H                       | 0 / 1213      | 0.15 (1) |
| H-I    | -7029 / 0                 | -91.8                         | -91.8 0.49 (1) | 3.37  | P-H                       | -1150 / 0     | 0.11 (1) |
| I-J    | -3755 / 0                 | -91.8                         | -91.8 0.08 (1) | 4.82  | P-I                       | 0 / 4136      | 0.51 (1) |
| J-K    | -2859 / 0                 | -91.8                         | -91.8 0.09 (1) | 5.35  | O-I                       | -481 / 0      | 0.05 (1) |
| K-L    | 0 / 28                    | -91.8                         | -91.8 0.07 (1) | 10.00 | O-J                       | 0 / 1057      | 0.13 (1) |
| V-B    | -2391 / 0                 | 0.0                           | 0.0 0.08 (1)   | 7.81  | N-J                       | -1208 / 0     | 0.10 (1) |
| M-K    | -2579 / 0                 | 0.0                           | 0.0 0.14 (1)   | 7.06  | B-U                       | 0 / 2522      | 0.31 (1) |
|        |                           |                               |                |       | N-K                       | 0 / 2743      | 0.34 (1) |
| V-U    | 0 / 0                     | -18.5                         | -18.5 0.05 (1) | 10.00 |                           |               |          |
| U-T    | 0 / 2331                  | -18.5                         | -18.5 0.20 (1) | 10.00 |                           |               |          |
| T-S    | 0 / 3071                  | -18.5                         | -18.5 0.24 (1) | 10.00 |                           |               |          |
| S-X    | 0 / 6317                  | -18.5                         | -18.5 0.60 (1) | 10.00 |                           |               |          |
| X-R    | 0 / 6317                  | -18.5                         | -18.5 0.60 (1) | 10.00 |                           |               |          |
| R-Q    | 0 / 7029                  | -18.5                         | -18.5 0.72 (1) | 10.00 |                           |               |          |
| Q-Y    | 0 / 7029                  | -18.5                         | -18.5 0.72 (1) | 10.00 |                           |               |          |
| Y-Z    | 0 / 7029                  | -18.5                         | -18.5 0.72 (1) | 10.00 |                           |               |          |
| Z-P    | 0 / 7029                  | -18.5                         | -18.5 0.72 (1) | 10.00 |                           |               |          |
| P-O    | 0 / 3337                  | -18.5                         | -18.5 0.25 (1) | 10.00 |                           |               |          |
| O-N    | 0 / 2536                  | -18.5                         | -18.5 0.22 (1) | 10.00 |                           |               |          |
| N-M    | 0 / 0                     | -18.5                         | -18.5 0.06 (1) | 10.00 |                           |               |          |

| SPECIFIED CONCENTRATED LOADS (LBS) |        |      |      |      |      |      |       |      |       |
|------------------------------------|--------|------|------|------|------|------|-------|------|-------|
| JT                                 | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
| G                                  | 14-8-4 | -76  | -76  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| R                                  | 14-8-4 | -21  | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| W                                  | 16-8-4 | -76  | -76  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| X                                  | 13-2-8 | -430 | -430 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Y                                  | 16-8-4 | -21  | -21  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Z                                  | 18-7-8 | -576 | -576 | ---  | BACK | VERT | TOTAL | ---  | C1    |

CONNECTION REQUIREMENTS

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



JOSEPH HILL  
BUILDING DIVISION  
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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T30        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:33 2023 Page 2  
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| PLATES (table is in inches) |         |        |     |     |      |      |
|-----------------------------|---------|--------|-----|-----|------|------|
| JT                          | TYPE    | PLATES | W   | LEN | Y    | X    |
| B                           | TMVW-p  | MT20   | 4.0 | 6.0 | 1.00 | 3.00 |
| C, E, H, J                  |         |        |     |     |      |      |
| C                           | TMWW-t  | MT20   | 4.0 | 6.0 |      |      |
| D                           | TTWW-m  | MT20   | 5.0 | 8.0 | 2.00 | 2.25 |
| F                           | TS-t    | MT20   | 3.0 | 8.0 |      |      |
| G                           | TMW+w   | MT20   | 2.0 | 4.0 |      |      |
| I                           | TTWW-m  | MT20   | 5.0 | 8.0 | 1.75 | 2.25 |
| K                           | TMVW-t  | MT20   | 4.0 | 6.0 |      |      |
| M                           | BMV1+p  | MT20   | 4.0 | 6.0 | 3.00 | Edge |
| N                           | BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| O                           | BMWW+t  | MT20   | 4.0 | 6.0 |      |      |
| P                           | BMWW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| Q                           | BS-t    | MT20   | 5.0 | 6.0 |      |      |
| R                           | BMWWW-t | MT20   | 5.0 | 8.0 |      |      |
| S                           | BMWW-t  | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| T                           | BMWW+t  | MT20   | 4.0 | 6.0 |      |      |
| U                           | BMWW-t  | MT20   | 5.0 | 6.0 |      |      |
| V                           | BMV1+p  | MT20   | 4.0 | 6.0 |      |      |

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

NOTES- (1)

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

CONNECTION REQUIREMENTS

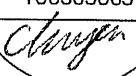
1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

LICENSED PROFESSIONAL ENGINEER

9/25/23

C. M. HEYENS

100505065



PROVINCE OF ONTARIO

STRUCTURAL COMPONENT ONLY

DWG # TR23091994

CITY OF RICHMOND HILL

BUILDING DIVISION

05/01/2024

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STRUCTURAL COMPONENT ONLY  
DWG # TR23091994

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED

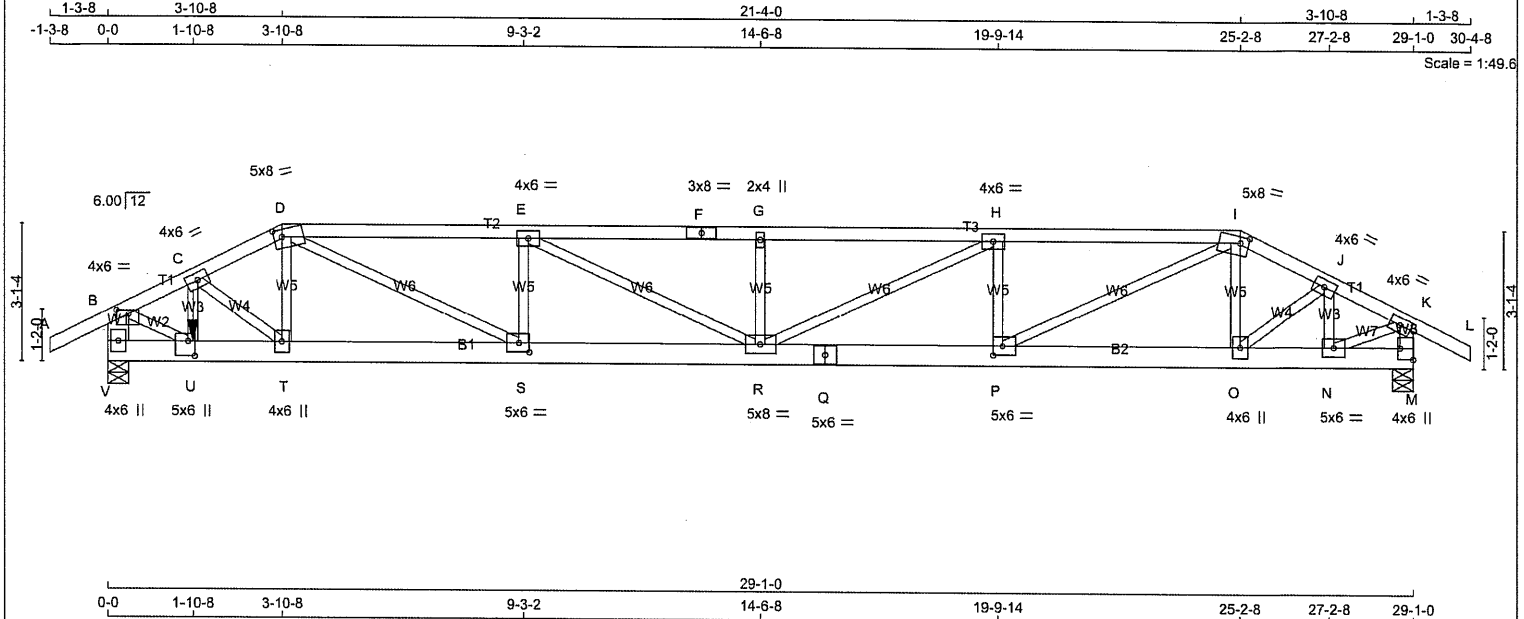
Per: joshua.nabua



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T30Z       | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:35 2023 Page 1  
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| LUMBER | N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|--------|-------------------|--------|------|--------|--------|
| A - D  | 2x4               | DRY    | No.2 | SPF    |        |
| D - F  | 2x4               | DRY    | No.2 | SPF    |        |
| F - I  | 2x4               | DRY    | No.2 | SPF    |        |
| I - L  | 2x4               | DRY    | No.2 | SPF    |        |
| V - B  | 2x6               | DRY    | No.2 | SPF    |        |
| M - K  | 2x4               | DRY    | No.2 | SPF    |        |
| V - M  | 2x6               | DRY    | No.2 | SPF    |        |
| Q - M  | 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        |
| D-F                                      | 1                    | 12        |
| F-I                                      | 1                    | 12        |
| I-L                                      | 1                    | 12        |
| M-K                                      | 1                    | 12        |
| V-B                                      | 2                    | 12        |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| V-Q                                      | 2                    | 12        |
| Q-M                                      | 2                    | 12        |
| WEBS : (0.122"x3") SPIRAL NAILS          |                      |           |
| C-U                                      | 1                    | 2         |
| 2x3                                      | 1                    | 6         |

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

| BEARINGS | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----------|-------------------------|---------------------------------|-----------|-----------|
| JT       | VERT                    | DOWN                            | 0         | 0         |
| V        | 3197                    | 0                               | 3197      | 0         |
| M        | 1829                    | 0                               | 1829      | 0         |

#### UNFACTORED REACTIONS

| 1ST LOASE | MAX./MIN. COMPONENT REACTIONS |          |       |           |       |         |
|-----------|-------------------------------|----------|-------|-----------|-------|---------|
| JT        | COMBINED                      | SNOW     | LIVE  | PERM.LIVE | WIND  | DEAD    |
| V         | 2255                          | 1512 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 744 / 0 |
| M         | 1291                          | 862 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 429 / 0 |

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

#### BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.13 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 | MAX. FACTORED | FACTORED | VERT. LOAD | LC1      | MAX   | MAX. | UNBRAC   | WEBS     | MAX. FACTORED |
|--------|---------------|----------|------------|----------|-------|------|----------|----------|---------------|
| MEMB.  | FORCE         | (PLF)    | VERT.      | TO       | CS    | CS   | LENGTH   | MEMB.    | FORCE         |
| FR-TO  |               |          |            |          |       |      |          | FR-TO    |               |
| A-B    | 0 / 28        | -91.8    | -91.8      | 0.07 (1) | 10.00 | U-C  | 0 / 4    | 0.00 (4) |               |
| B-C    | -3381 / 0     | -91.8    | -91.8      | 0.10 (1) | 5.00  | C-T  | -102 / 0 | 0.01 (1) |               |
| C-D    | -3258 / 0     | -91.8    | -91.8      | 0.09 (1) | 5.00  | T-D  | 0 / 372  | 0.05 (1) |               |
| D-E    | -4473 / 0     | -91.8    | -91.8      | 0.31 (1) | 4.27  | D-S  | 0 / 1726 | 0.21 (1) |               |
| E-F    | -4804 / 0     | -91.8    | -91.8      | 0.33 (1) | 4.13  | S-E  | -720 / 0 | 0.07 (1) |               |
| F-G    | -4804 / 0     | -91.8    | -91.8      | 0.33 (1) | 4.13  | E-R  | 0 / 373  | 0.05 (1) |               |
| G-H    | -4804 / 0     | -91.8    | -91.8      | 0.33 (1) | 4.13  | R-G  | -444 / 0 | 0.04 (1) |               |
| H-I    | -4085 / 0     | -91.8    | -91.8      | 0.29 (1) | 4.45  | H-R  | 0 / 810  | 0.10 (1) |               |
| I-J    | -2399 / 0     | -91.8    | -91.8      | 0.05 (1) | 5.77  | P-H  | -922 / 0 | 0.09 (1) |               |
| J-K    | -1853 / 0     | -91.8    | -91.8      | 0.07 (1) | 6.25  | P-I  | 0 / 2185 | 0.27 (1) |               |
| K-L    | 0 / 28        | -91.8    | -91.8      | 0.07 (1) | 10.00 | Q-I  | -205 / 0 | 0.02 (1) |               |
| V-B    | -3015 / 0     | 0.0      | 0.0        | 0.11 (1) | 7.81  | O-J  | 0 / 650  | 0.08 (1) |               |
| M-K    | -1753 / 0     | 0.0      | 0.0        | 0.10 (1) | 7.81  | N-J  | -800 / 0 | 0.06 (1) |               |
|        |               |          |            |          |       | B-U  | 0 / 3242 | 0.40 (1) |               |
|        |               |          |            |          |       | N-K  | 0 / 1773 | 0.22 (1) |               |
| V-U    | 0 / 0         | -18.5    | -18.5      | 0.11 (1) | 10.00 |      |          |          |               |
| U-T    | 0 / 2997      | -18.5    | -18.5      | 0.31 (1) | 10.00 |      |          |          |               |
| T-S    | 0 / 2932      | -18.5    | -18.5      | 0.23 (1) | 10.00 |      |          |          |               |
| S-R    | 0 / 4473      | -18.5    | -18.5      | 0.35 (1) | 10.00 |      |          |          |               |
| R-Q    | 0 / 4085      | -18.5    | -18.5      | 0.32 (1) | 10.00 |      |          |          |               |
| Q-P    | 0 / 4085      | -18.5    | -18.5      | 0.32 (1) | 10.00 |      |          |          |               |
| P-O    | 0 / 2134      | -18.5    | -18.5      | 0.18 (1) | 10.00 |      |          |          |               |
| O-N    | 0 / 1638      | -18.5    | -18.5      | 0.15 (1) | 10.00 |      |          |          |               |
| N-M    | 0 / 0         | -18.5    | -18.5      | 0.04 (1) | 10.00 |      |          |          |               |

| SPECIFIED CONCENTRATED LOADS (LBS) | JT     | LOC.  | LC1   | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|------------------------------------|--------|-------|-------|------|------|-------|------|-------|------|-------|
| U                                  | 1-10-8 | -1107 | -1107 | ---  | ---  | FRONT | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")  
ALLOWABLE DEFL.(TL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.33/1.00 (G-H:1), BC=0.35/1.00 (R-S:1), WB=0.40/1.00 (B-U:1), SS=0.13/1.00 (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 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 = 0.69 (U) (INPUT = 0.90)  
JSI METAL = 0.54 (U) (INPUT = 0.95)

BUILDING DIVISION  
05/01/2024

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Per: joshua.nabua



STRUCTURAL COMPONENT ONLY  
DWG # TR23091995

CONTINUED ON PAGE 2



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T30Z       | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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| PLATES (table is in inches) |        |        |     |     |      |      |
|-----------------------------|--------|--------|-----|-----|------|------|
| JT                          | TYPE   | PLATES | W   | LEN | Y    | X    |
| B                           | TMVW-p | MT20   | 4.0 | 6.0 | 1.00 | 3.25 |
| C, E, H, J                  |        |        |     |     |      |      |
| C                           | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| D                           | TTWW-m | MT20   | 5.0 | 8.0 | 2.00 | 2.25 |
| F                           | TS-t   | MT20   | 3.0 | 8.0 |      |      |
| G                           | TMVW-w | MT20   | 2.0 | 4.0 |      |      |
| I                           | TTWW-m | MT20   | 5.0 | 8.0 | 1.75 | 2.25 |
| K                           | TMVW-t | MT20   | 4.0 | 6.0 |      |      |
| M                           | BMV1+p | MT20   | 4.0 | 6.0 | 3.00 | Edge |
| N                           | BMVW-t | MT20   | 5.0 | 6.0 |      |      |
| O                           | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| P                           | BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.50 |
| Q                           | BS-t   | MT20   | 5.0 | 6.0 |      |      |
| R                           | BMVW-t | MT20   | 5.0 | 8.0 |      |      |
| S                           | BMVW-t | MT20   | 5.0 | 6.0 | 2.50 | 2.75 |
| T                           | BMVW-t | MT20   | 4.0 | 6.0 |      |      |
| U                           | BMVW-t | MT20   | 5.0 | 6.0 | 4.00 | 1.75 |
| V                           | BMV1+p | MT20   | 4.0 | 6.0 |      |      |

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

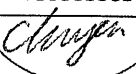
NOTES- (1)  
1) Lateral braces to be a minimum of 2X4 SPF #2.

LICENSED PROFESSIONAL ENGINEER

9/25/23

C. M. HEYENS

100505065



PROVINCE OF ONTARIO

STRUCTURAL COMPONENT ONLY  
DWG # TR23091995

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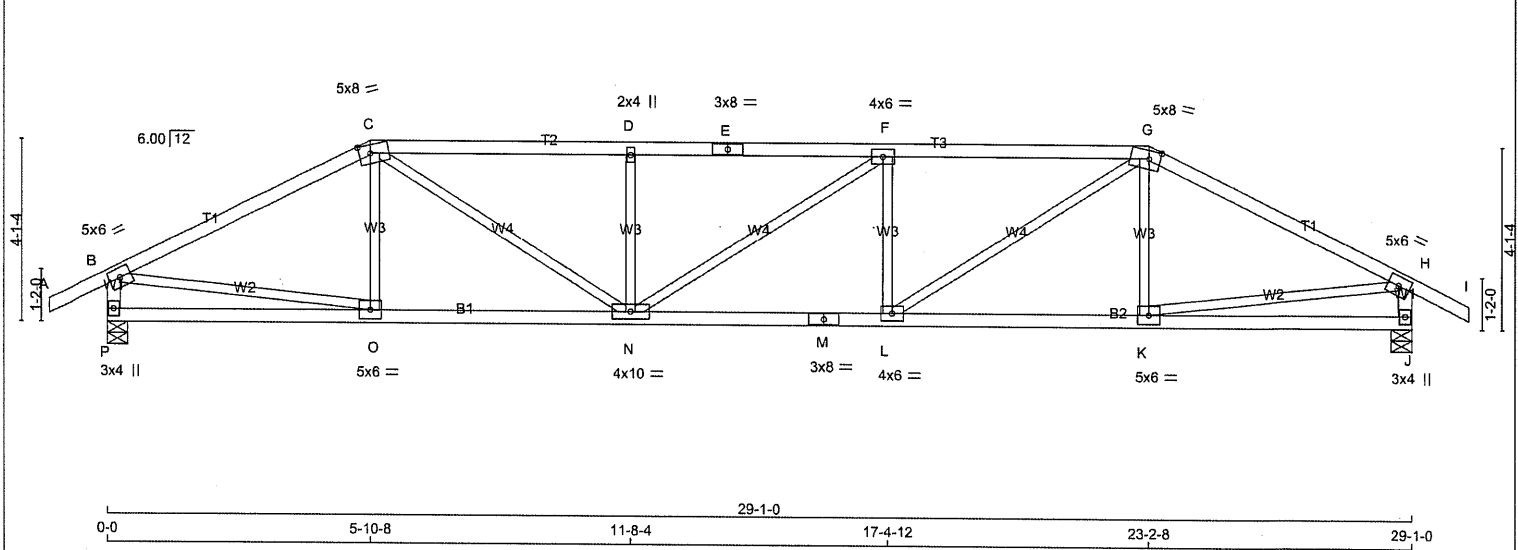
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T31        | 3        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:49.6



LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER DESCR.

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 3 X 110 = 329 lb

| CHORDS | SIZE | LUMBER   | DESCR. |
|--------|------|----------|--------|
| A - C  | 2x4  | DRY No.2 | SPF    |
| C - E  | 2x4  | DRY No.2 | SPF    |
| E - G  | 2x4  | DRY No.2 | SPF    |
| G - I  | 2x4  | DRY No.2 | SPF    |
| I - H  | 2x4  | DRY No.2 | SPF    |
| H - J  | 2x4  | DRY No.2 | SPF    |
| J - K  | 2x4  | DRY No.2 | SPF    |
| K - L  | 2x4  | DRY No.2 | SPF    |
| L - M  | 2x4  | DRY No.2 | SPF    |
| M - J  | 2x4  | DRY No.2 | SPF    |

| 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 |
| P                                                                                             | 1728 | 0                               | 1728 | 0         | 0      | 5-8       | 2-2   |
| J                                                                                             | 1728 | 0                               | 1728 | 0         | 0      | 5-8       | 2-2   |

| UNFACTORED REACTIONS                    |          |         |       |           |       |         |       |
|-----------------------------------------|----------|---------|-------|-----------|-------|---------|-------|
| 1ST LCASE MAX./MIN. COMPONENT REACTIONS |          |         |       |           |       |         |       |
| JT                                      | COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| P                                       | 1220     | 814 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 406 / 0 | 0 / 0 |
| J                                       | 1220     | 814 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 406 / 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 = 3.44 FT.

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

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

| LOADING               |                           |                           |                           |
|-----------------------|---------------------------|---------------------------|---------------------------|
| TOTAL LOAD CASES: (4) |                           |                           |                           |
| CHORDS                |                           |                           |                           |
| MEMB.                 | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) |
| FR-TO                 |                           |                           |                           |
| A-B                   | 0 / 28                    | -91.8 -91.8               | 0.12 (1) 10.00            |
| B-C                   | -2234 / 0                 | -91.8 -91.8               | 0.76 (1) 3.71             |
| C-D                   | -3022 / 0                 | -91.8 -91.8               | 0.64 (1) 3.45             |
| D-E                   | -3022 / 0                 | -91.8 -91.8               | 0.63 (1) 3.44             |
| E-F                   | -3022 / 0                 | -91.8 -91.8               | 0.63 (1) 3.44             |
| F-G                   | -3023 / 0                 | -91.8 -91.8               | 0.64 (1) 3.44             |
| G-H                   | -2234 / 0                 | -91.8 -91.8               | 0.76 (1) 3.71             |
| H-I                   | 0 / 28                    | -91.8 -91.8               | 0.12 (1) 10.00            |
| P-B                   | -1682 / 0                 | 0.0 0.0                   | 0.17 (1) 6.40             |
| J-H                   | -1682 / 0                 | 0.0 0.0                   | 0.17 (1) 6.40             |
| WEBS                  |                           |                           |                           |
| MEMB.                 | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |                           |
| O-C                   | -164 / 38                 | 0.04 (1)                  |                           |
| C-N                   | 0 / 1230                  | 0.28 (1)                  |                           |
| N-D                   | -572 / 0                  | 0.15 (1)                  |                           |
| D-F                   | -2 / 0                    | 0.00 (1)                  |                           |
| F-L                   | -573 / 0                  | 0.15 (1)                  |                           |
| L-G                   | 0 / 1231                  | 0.28 (1)                  |                           |
| K-G                   | -164 / 38                 | 0.04 (1)                  |                           |
| B-O                   | 0 / 2018                  | 0.45 (1)                  |                           |
| K-H                   | 0 / 2018                  | 0.45 (1)                  |                           |
| P-O                   | 0 / 0                     | -18.5 -18.5               | 0.15 (4) 10.00            |
| O-N                   | 0 / 1993                  | -18.5 -18.5               | 0.40 (1) 10.00            |
| N-M                   | 0 / 3023                  | -18.5 -18.5               | 0.55 (1) 10.00            |
| M-L                   | 0 / 3023                  | -18.5 -18.5               | 0.55 (1) 10.00            |
| L-K                   | 0 / 1993                  | -18.5 -18.5               | 0.40 (1) 10.00            |
| K-J                   | 0 / 0                     | -18.5 -18.5               | 0.15 (4) 10.00            |

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF

DL = 6.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.4 PSF

TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.97")

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

ALLOWABLE DEFL.(TL) = L/360 (0.97")

CALCULATED VERT. DEFL.(TL) = L/999 (0.31")

CSI: TC=0.76/1.00 (B-C:1), BC=0.55/1.00 (L-N:1), WB=0.45/1.00 (B-O:1), SSI=0.25/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

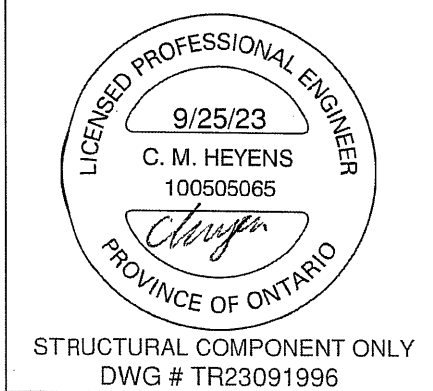
JSI GRIP=0.86 (B) (INPUT = 0.90)

JSI METAL=0.91 (M) (INPUT = 0.95)

| PLATES (table is in inches) |        |        |     |      |           |
|-----------------------------|--------|--------|-----|------|-----------|
| JT                          | TYPE   | PLATES | W   | LEN  | Y X       |
| B                           | TMVW-t | MT20   | 5.0 | 6.0  |           |
| C                           | TTWW-m | MT20   | 5.0 | 8.0  | 2.25 3.00 |
| D                           | TMVW-w | MT20   | 2.0 | 4.0  |           |
| E                           | TS-t   | MT20   | 3.0 | 8.0  |           |
| F                           | TMVW-t | MT20   | 4.0 | 6.0  |           |
| G                           | TTWW-m | MT20   | 5.0 | 8.0  | 2.25 3.00 |
| H                           | TMVW-t | MT20   | 5.0 | 6.0  |           |
| J                           | BMV1+p | MT20   | 3.0 | 4.0  |           |
| K                           | BMVW-t | MT20   | 5.0 | 6.0  |           |
| L                           | BMVW-t | MT20   | 4.0 | 6.0  |           |
| M                           | BS-t   | MT20   | 3.0 | 8.0  |           |
| N                           | BMVW-t | MT20   | 4.0 | 10.0 |           |
| O                           | BMVW-t | MT20   | 5.0 | 6.0  |           |
| P                           | BMV1+p | MT20   | 3.0 | 4.0  |           |

NOTES- (1)

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

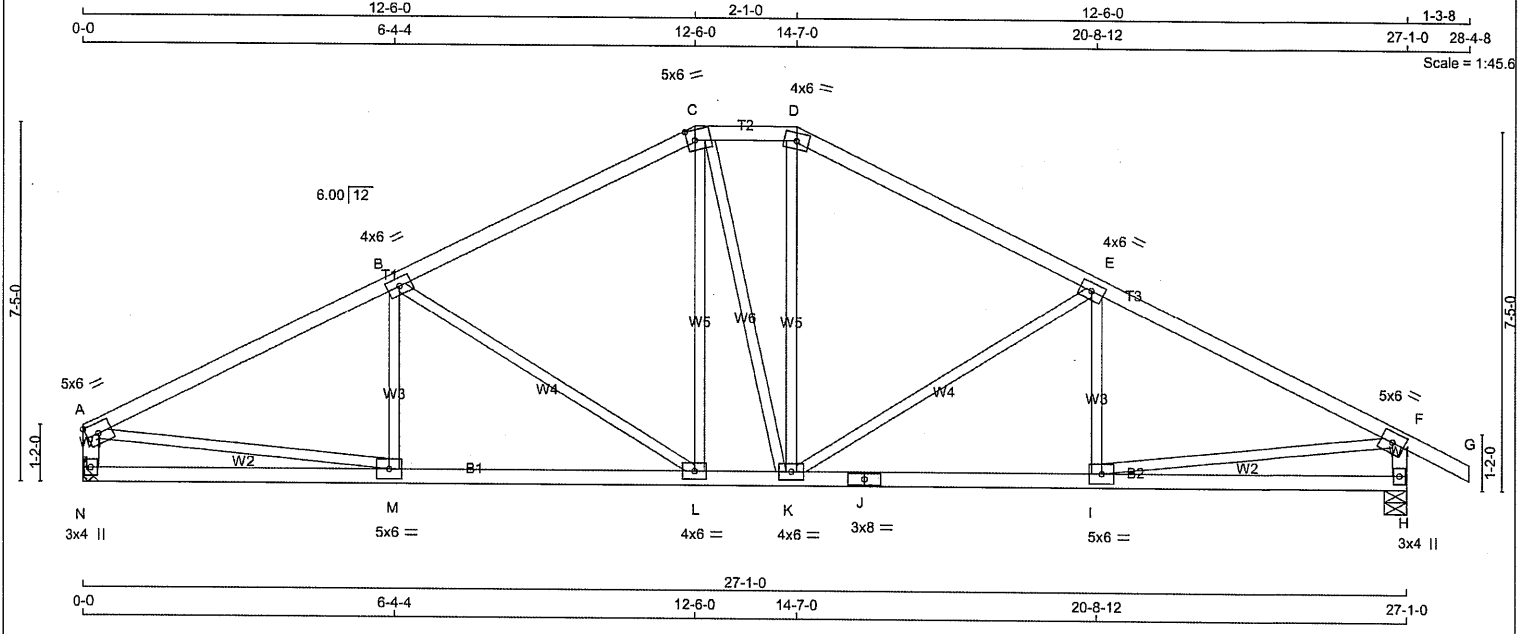


CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

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

NOTES- (1)

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

100505065

STRUCTURAL COMPONENT ONLY

DWG # TR23091997

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 |       |  |
| N        | 1493 | 0              | 1493 | 0                | 0      | MECHANICAL |       |       |  |
| H        | 1618 | 0              | 1618 | 0                | 0      | 5-8        | 1-12  |       |  |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT N. MINIMUM BEARING LENGTH AT JOINT N = 1'-10."

UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |  |
|-----------|----------|-------------------------------|-------|-----------|-------|---------|-------|--|
| JT        | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |  |
| N         | 1056     | 693 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 363 / 0 | 0 / 0 |  |
| H         | 1142     | 762 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 379 / 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 = 4.08 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                                   | WEBS  |                           |                                   |          |
|--------|---------------------------|---------------------------|-----------------------------------|-------|---------------------------|-----------------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED VERT. LOAD LC1 (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD LC1 (LC) |          |
| FR-TO  |                           | FROM                      | TO                                | FR-TO |                           |                                   |          |
| A-B    | -2117 / 0                 | -91.8                     | -91.8 0.56 (1)                    | 4.08  | M-B                       | -129 / 64                         | 0.04 (1) |
| B-C    | -1610 / 0                 | -91.8                     | -91.8 0.50 (1)                    | 4.62  | B-L                       | -606 / 0                          | 0.67 (1) |
| C-D    | -1419 / 0                 | -91.8                     | -91.8 0.07 (1)                    | 5.42  | L-C                       | 0 / 392                           | 0.09 (1) |
| D-E    | -1612 / 0                 | -91.8                     | -91.8 0.50 (1)                    | 4.62  | C-K                       | 0 / 7                             | 0.00 (1) |
| E-F    | -2116 / 0                 | -91.8                     | -91.8 0.56 (1)                    | 4.08  | K-D                       | 0 / 401                           | 0.09 (1) |
| F-G    | 0 / 28                    | -91.8                     | -91.8 0.12 (1)                    | 10.00 | K-E                       | -603 / 0                          | 0.66 (1) |
| N-A    | -1444 / 0                 | 0.0                       | 0.0 0.15 (1)                      | 6.80  | I-E                       | -132 / 62                         | 0.04 (1) |
| H-F    | -1568 / 0                 | 0.0                       | 0.0 0.16 (1)                      | 6.58  | A-M                       | 0 / 1938                          | 0.44 (1) |
|        |                           |                           |                                   |       | I-F                       | 0 / 1937                          | 0.44 (1) |
| N-M    | 0 / 0                     | -18.5                     | -18.5 0.18 (4)                    | 10.00 |                           |                                   |          |
| M-L    | 0 / 1921                  | -18.5                     | -18.5 0.39 (1)                    | 10.00 |                           |                                   |          |
| L-K    | 0 / 1417                  | -18.5                     | -18.5 0.29 (1)                    | 10.00 |                           |                                   |          |
| K-J    | 0 / 1920                  | -18.5                     | -18.5 0.39 (1)                    | 10.00 |                           |                                   |          |
| J-I    | 0 / 1920                  | -18.5                     | -18.5 0.39 (1)                    | 10.00 |                           |                                   |          |
| I-H    | 0 / 0                     | -18.5                     | -18.5 0.18 (4)                    | 10.00 |                           |                                   |          |

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")  
ALLOWABLE DEFL.(TL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.56/1.00 (A-B:1), BC=0.39/1.00 (L-M:1), WB=0.67/1.00 (B-L:1), SS=0.25/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (F) (INPUT = 0.90 )  
JSI METAL= 0.58 (J) (INPUT = 0.95 )



CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

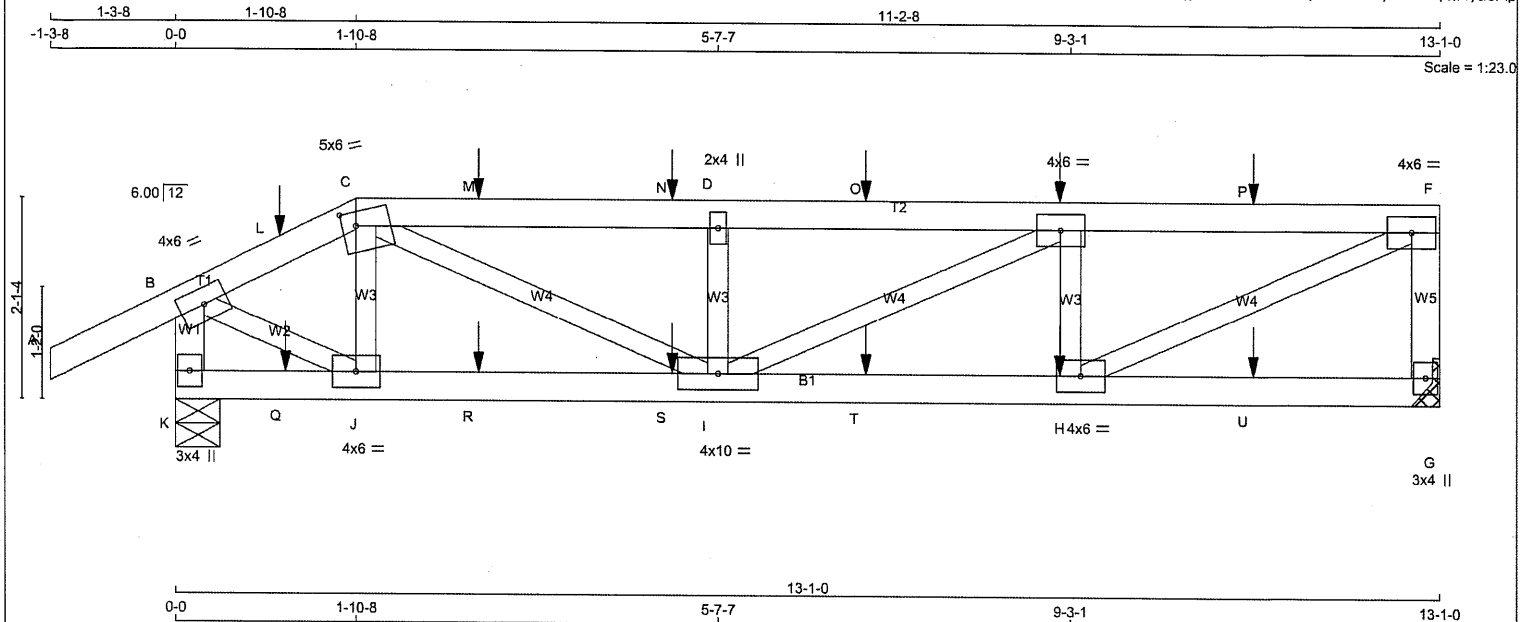
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Per: joshua.nabua

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T33        | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:38 2023 Page 1  
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| CHORDS | SIZE | LUMBER   | DESCR. |
|--------|------|----------|--------|
| A - C  | 2x4  | DRY No.2 | SPF    |
| C - F  | 2x4  | DRY No.2 | SPF    |
| G - B  | 2x4  | DRY No.2 | SPF    |
| K - 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   | 5.0 | 6.0  | 1.75 | 1.75 |
| D  | TMVW-w | MT20   | 2.0 | 4.0  |      |      |
| E  | TMVW-t | MT20   | 4.0 | 6.0  |      |      |
| F  | TMVW-t | MT20   | 4.0 | 6.0  |      |      |
| G  | BMV1-p | MT20   | 3.0 | 4.0  |      |      |
| H  | BMVW-t | MT20   | 4.0 | 6.0  |      |      |
| I  | BMVW-t | MT20   | 4.0 | 10.0 |      |      |
| J  | BMVW-t | MT20   | 4.0 | 6.0  |      |      |
| K  | 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      | UPLIFT    |
| G  | 852                     | 0                               | 852       | 0         |
| K  | 1017                    | 0                               | 1017      | 0         |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|--------------------|---------|-------|-----------|-------|---------|-------|
| G  | 603                | 395 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 208 / 0 | 0 / 0 |
| K  | 716                | 485 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 231 / 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 = 4.94 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| 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 / 28                    | -91.8 -91.8               | 0.13 (1)                  | J-C   | -232 / 0                  | 0.04 (1)                  |
| B-L   | -897 / 0                  | -91.8 -91.8               | 0.14 (1)                  | B-J   | 0 / 855                   | 0.21 (1)                  |
| L-C   | -897 / 0                  | -91.8 -91.8               | 0.14 (1)                  | H-F   | 0 / 1526                  | 0.38 (1)                  |
| C-M   | -1596 / 0                 | -91.8 -91.8               | 0.24 (1)                  | C-I   | 0 / 916                   | 0.23 (1)                  |
| M-N   | -1596 / 0                 | -91.8 -91.8               | 0.24 (1)                  | H-E   | -534 / 0                  | 0.09 (1)                  |
| N-D   | -1596 / 0                 | -91.8 -91.8               | 0.24 (1)                  | I-D   | -413 / 0                  | 0.07 (1)                  |
| D-O   | -1596 / 0                 | -91.8 -91.8               | 0.22 (1)                  | I-E   | 0 / 243                   | 0.06 (1)                  |
| O-E   | -1596 / 0                 | -91.8 -91.8               | 0.22 (1)                  |       |                           |                           |
| E-P   | -1379 / 0                 | -91.8 -91.8               | 0.24 (1)                  |       |                           |                           |
| P-F   | -1379 / 0                 | -91.8 -91.8               | 0.24 (1)                  |       |                           |                           |
| G-F   | -811 / 0                  | 0.0 0.0                   | 0.10 (1)                  |       |                           |                           |
| K-B   | -1006 / 0                 | 0.0 0.0                   | 0.11 (1)                  |       |                           |                           |
| K-Q   | 0 / 0                     | -18.5 -18.5               | 0.06 (4)                  |       |                           |                           |
| Q-J   | 0 / 0                     | -18.5 -18.5               | 0.06 (4)                  |       |                           |                           |
| J-R   | 0 / 771                   | -18.5 -18.5               | 0.19 (1)                  |       |                           |                           |
| R-S   | 0 / 771                   | -18.5 -18.5               | 0.19 (1)                  |       |                           |                           |
| S-I   | 0 / 771                   | -18.5 -18.5               | 0.19 (1)                  |       |                           |                           |
| I-T   | 0 / 1379                  | -18.5 -18.5               | 0.30 (1)                  |       |                           |                           |
| T-H   | 0 / 1379                  | -18.5 -18.5               | 0.30 (1)                  |       |                           |                           |
| H-U   | 0 / 0                     | -18.5 -18.5               | 0.08 (4)                  |       |                           |                           |
| U-G   | 0 / 0                     | -18.5 -18.5               | 0.08 (4)                  |       |                           |                           |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1 | MAX. | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-----|------|------|------|------|-------|------|-------|
| E  | 9-1-12  | -19 | -19  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| H  | 9-1-12  | -16 | -16  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| L  | 1-1-12  | -27 | -27  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| M  | 3-1-12  | -19 | -19  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| N  | 5-1-12  | -19 | -19  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| O  | 7-1-12  | -19 | -19  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| P  | 11-1-12 | -19 | -19  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| Q  | 1-1-12  | -16 | -16  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| R  | 3-1-12  | -16 | -16  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| S  | 5-1-12  | -16 | -16  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| T  | 7-1-12  | -16 | -16  | ---  | BACK | VERT | TOTAL | ---  | C1    |
| U  | 11-1-12 | -16 | -16  | ---  | BACK | VERT | TOTAL | ---  | C1    |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

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

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

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

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

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

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.44")  
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")  
ALLOWABLE DEFL. (TL) = L/360 (0.44")  
CALCULATED VERT. DEFL. (TL) = L/999 (0.08")

CSI: TC=0.24/1.00 (C-D:1), BC=0.30/1.00 (H-I:1), WB=0.38/1.00 (F-H:1), SSI=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.89 (C) (INPUT=0.89)  
JSI METAL=0.33 (H) (INPUT=0.95)

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STRUCTURAL COMPONENT ONLY  
DWG # TR23091998

|          |            |          |     |                  |          |
|----------|------------|----------|-----|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 435001   | T33        | 1        | 1   | GREEN PARK HOMES |          |
|          |            |          |     | TRUSS DESC.      |          |

CONNECTION REQUIREMENTS

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



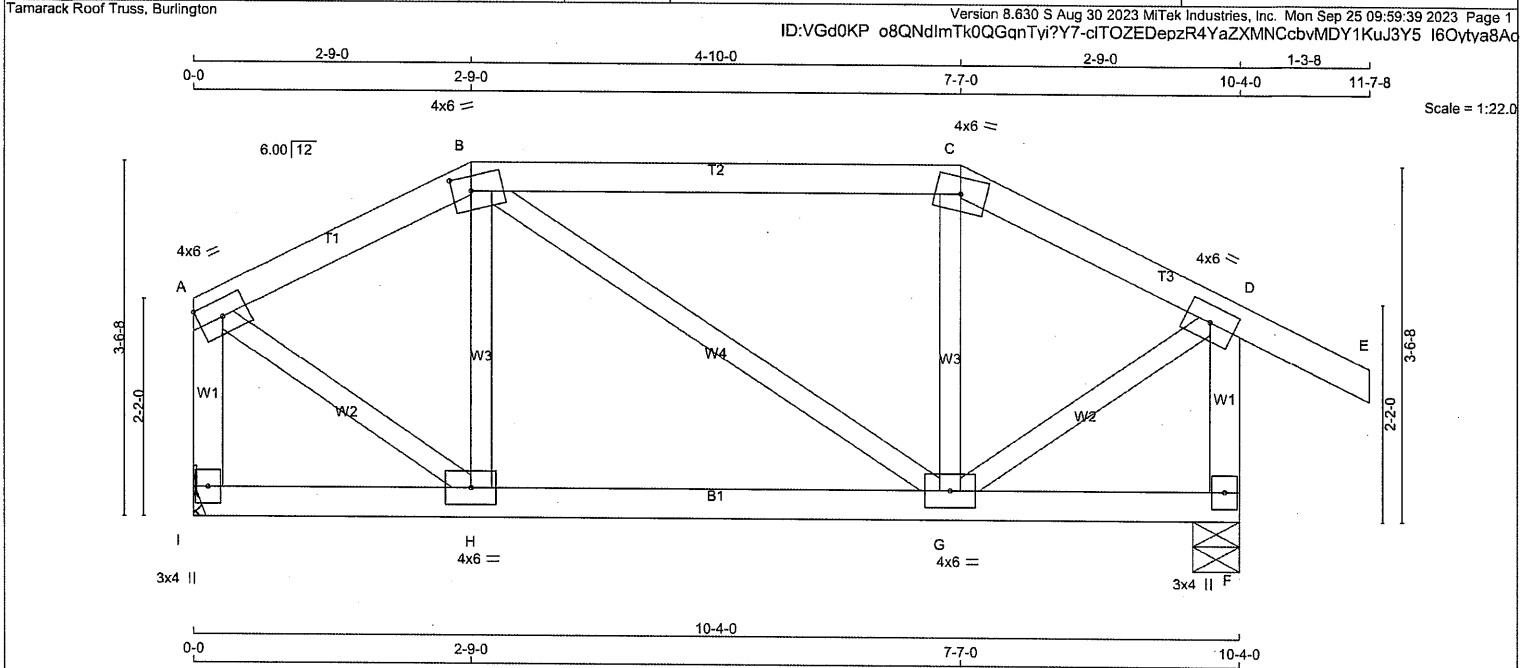
STRUCTURAL COMPONENT ONLY
DWG # TR23091998

CITY OF RICHMOND HILL  
BUILDING DIVISION

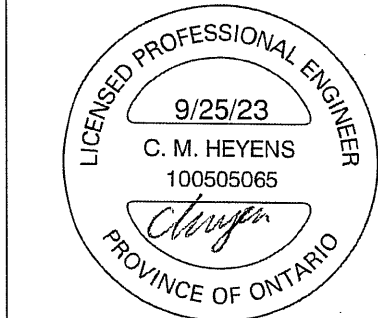
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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T34        | 1        | 1   | TRUSS DESC. |                  |          |



|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
|-------------------------------------------------------------------|--|--|--|--|----------------------------------------------------------------------------------------------------------|--|--|--|--|----------------------------------------------------------------------------------------------------|--|--|--|--|
| TOTAL WEIGHT = 44 lb                                              |  |  |  |  |                                                                                                          |  |  |  |  | [M][F]                                                                                             |  |  |  |  |
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR.   |  |  |  |  | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER            |  |  |  |  | DESIGN CRITERIA                                                                                    |  |  |  |  |
|                                                                   |  |  |  |  | <b>BEARINGS</b>                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
|                                                                   |  |  |  |  | FACTORED MAXIMUM FACTORED INPUT REQD                                                                     |  |  |  |  | SPECIFIED LOADS:                                                                                   |  |  |  |  |
|                                                                   |  |  |  |  | GROSS REACTION GROSS REACTION BRG BRG                                                                    |  |  |  |  | TOP CH. LL = 25.6 PSF                                                                              |  |  |  |  |
|                                                                   |  |  |  |  | JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX                                                                |  |  |  |  | DL = 6.0 PSF                                                                                       |  |  |  |  |
|                                                                   |  |  |  |  | I 570 0 570 0 0 MECHANICAL                                                                               |  |  |  |  | BOT CH. LL = 0.0 PSF                                                                               |  |  |  |  |
|                                                                   |  |  |  |  | F 694 0 694 0 0 5-8 1-8                                                                                  |  |  |  |  | DL = 7.4 PSF                                                                                       |  |  |  |  |
|                                                                   |  |  |  |  | A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 1-8. |  |  |  |  | TOTAL LOAD = 39.0 PSF                                                                              |  |  |  |  |
| ALL WEBS 2x3 DRY No.2 SPF                                         |  |  |  |  |                                                                                                          |  |  |  |  | SPACING = 24.0 IN. C/C                                                                             |  |  |  |  |
| EXCEPT                                                            |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| DRY: SEASONED LUMBER.                                             |  |  |  |  |                                                                                                          |  |  |  |  | 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 , NBC-2019AE                                                                 |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | - PART 9 OF OBC 2012 (2019 AMENDMENT)                                                              |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | - CSA 086-14                                                                                       |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | - TPIC 2014                                                                                        |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | (55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | ALLOWABLE DEFL.(LL)= L/360 (0.34")                                                                 |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")                                                        |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | ALLOWABLE DEFL.(TL)= L/360 (0.34")                                                                 |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")                                                        |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | CSI: TC=0.28/1.00 (B-C:1) , BC=0.10/1.00 (G-H:4) ,                                                 |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | WB=0.10/1.00 (A-H:1) , SSI=0.17/1.00 (B-C:1)                                                       |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10                                                             |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | COMP=1.10 SHEAR=1.10 TENS= 1.10                                                                    |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | COMPANION LIVE LOAD FACTOR = 1.00                                                                  |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . |  |  |  |  |
|                                                                   |  |  |  |  |                                                                                                          |  |  |  |  | NAIL VALUES                                                                                        |  |  |  |  |
| <b>PLATES (table is in inches)</b>                                |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| JT TYPE PLATES W LEN Y X                                          |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| A TMVW-t MT20 4.0 6.0 Edge                                        |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| B TTWW-m MT20 4.0 6.0 1.75 2.25                                   |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| C TTW-m MT20 4.0 6.0                                              |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| D TMVW-t MT20 4.0 6.0                                             |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| F BMV1+p MT20 3.0 4.0                                             |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| G BMWWV-t MT20 4.0 6.0                                            |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| H BMWW-t MT20 4.0 6.0                                             |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |
| I 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.                  |  |  |  |  |                                                                                                          |  |  |  |  |                                                                                                    |  |  |  |  |

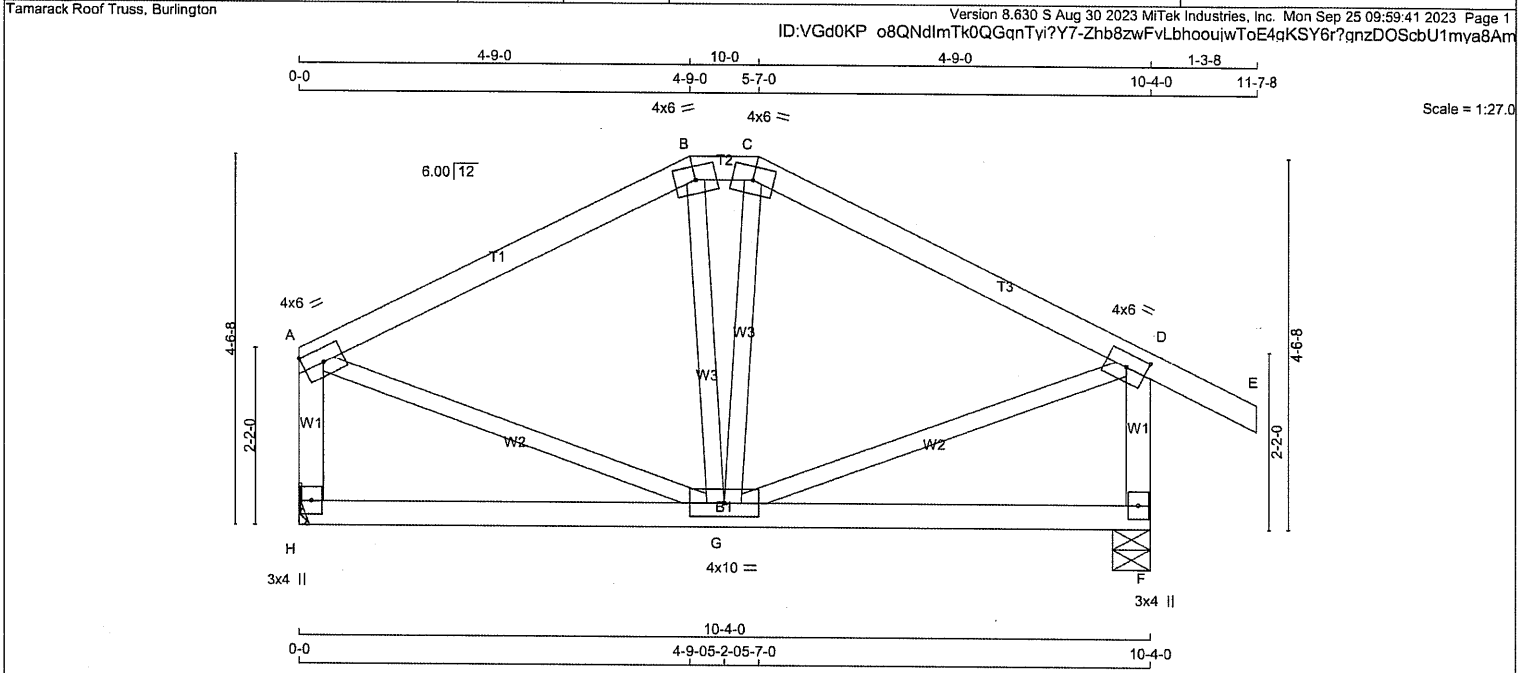


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DWG # TR23091999

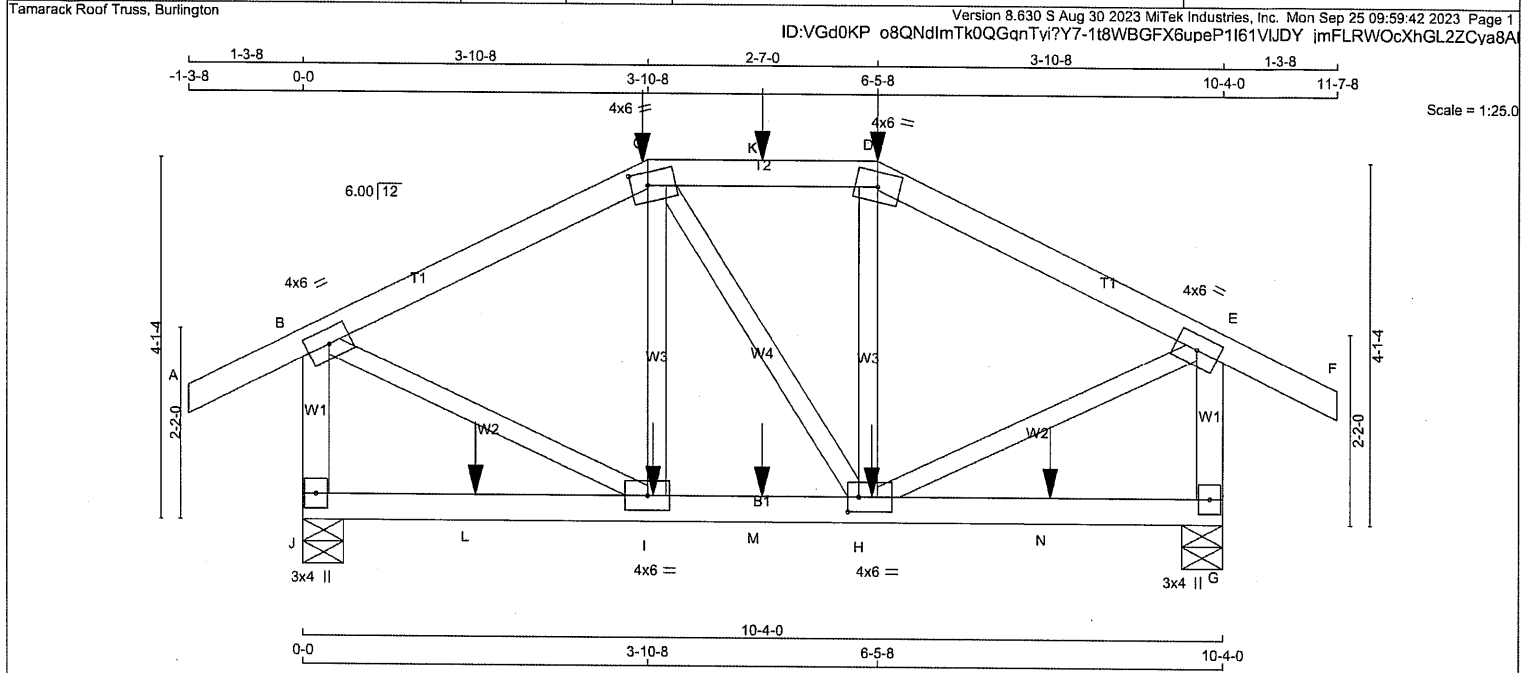
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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T35        | 1        | 1   | TRUSS DESC. |                  |          |



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T36        | 1        | 1   | TRUSS DESC. |                  |          |



|                                                                                                                                                                                                                                                                                             |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR.<br>A - C 2x4 DRY No.2 SPF<br>C - D 2x4 DRY No.2 SPF<br>D - F 2x4 DRY No.2 SPF<br>J - B 2x4 DRY No.2 SPF<br>G - E 2x4 DRY No.2 SPF<br>J - G 2x4 DRY No.2 SPF<br>ALL WEBS 2x3 DRY No.2 SPF<br>EXCEPT<br>DRY: SEASONED LUMBER. |  |  |  | <b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><b>SPACING = 24.0 IN. C/C</b><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF CBC 2018, NBC-2019AE<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.34")<br>CALCULATED VERT. DEFL.(LL) = L/999 (0.01")<br>ALLOWABLE DEFL.(TL)= L/360 (0.34")<br>CALCULATED VERT. DEFL.(TL) = L/999 (0.02")<br>CSI: TC=0.28/1.00 (B-C:1), BC=0.17/1.00 (H-I:1), WB=0.21/1.00 (B-I:1), SSI=0.14/1.00 (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>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= 0.84 (H) (INPUT = 0.90)<br>JSI METAL= 0.22 (H) (INPUT = 0.95) |  |  |  | <b>PLATES (table is in inches)</b><br>JT TYPE PLATES W LEN Y X<br>B TMWV-t MT20 4.0 6.0<br>C TTWW-m MT20 4.0 6.0 1.75 2.25<br>D TTW-m MT20 4.0 6.0<br>E TMWV-t MT20 4.0 6.0<br>G BMV1+p MT20 3.0 4.0<br>H BMWVW-t MT20 4.0 6.0 2.00 1.50<br>I BMWVW-t MT20 4.0 6.0<br>J BMV1+p MT20 3.0 4.0<br><b>NOTES- (1)</b><br>1) Lateral braces to be a minimum of 2X4 SPF #2. |  |  |  | <b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX./MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>J 755 517 / 0 0 / 0 0 / 0 0 / 0 238 / 0 0 / 0<br>G 755 517 / 0 0 / 0 0 / 0 0 / 0 238 / 0 0 / 0<br><b>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J, G</b><br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.24 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><b>CHORDS</b><br>MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. CSI (LC)<br>FR-TO FROM TO LENGTH FR-TO<br>A-B 0 / 28 -91.8 -91.8 0.13 (1) 10.00 I-C -251 / 0 0.07 (1)<br>B-C -845 / 0 -91.8 -91.8 0.28 (1) 6.24 C-H -2 / 0 0.00 (1)<br>C-K -747 / 0 -91.8 -91.8 0.21 (1) 6.25 H-D -254 / 0 0.07 (1)<br>K-D -747 / 0 -91.8 -91.8 0.21 (1) 6.25 B-I 0 / 833 0.21 (1)<br>D-E -844 / 0 -91.8 -91.8 0.28 (1) 6.24 H-E 0 / 832 0.21 (1)<br>E-F 0 / 28 -91.8 -91.8 0.13 (1) 10.00<br>J-B -1034 / 0 0.0 0.0 0.13 (1) 7.69<br>G-E -1033 / 0 0.0 0.0 0.13 (1) 7.69<br>J-L 0 / 0 -18.5 -18.5 0.10 (4) 10.00<br>L-I 0 / 0 -18.5 -18.5 0.10 (4) 10.00<br>I-M 0 / 748 -18.5 -18.5 0.17 (1) 10.00<br>M-H 0 / 748 -18.5 -18.5 0.17 (1) 10.00<br>H-N 0 / 0 -18.5 -18.5 0.10 (4) 10.00<br>N-G 0 / 0 -18.5 -18.5 0.10 (4) 10.00<br><b>SPECIFIED CONCENTRATED LOADS (LBS)</b><br>JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.<br>C 3-10-8 -202 -202 --- BACK VERT TOTAL --- C1<br>D 6-5-8 -202 -202 --- BACK VERT TOTAL --- C1<br>H 6-4-12 -14 -14 --- BACK VERT TOTAL --- C1<br>I 3-11-4 -14 -14 --- BACK VERT TOTAL --- C1<br>K 5-2-0 -59 -59 --- BACK VERT TOTAL --- C1<br>L 1-11-4 -14 -14 --- BACK VERT TOTAL --- C1<br>M 5-2-0 -14 -14 --- BACK VERT TOTAL --- C1<br>N 8-4-12 -14 -14 --- BACK VERT TOTAL --- C1<br><b>CONNECTION REQUIREMENTS</b><br>1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED. |  |  |  | <b>TOTAL WEIGHT = 48 lb</b><br><b>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><b>SPACING = 24.0 IN. C/C</b><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015<br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF CBC 2018, NBC-2019AE<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<br>ALLOWABLE DEFL.(LL)= L/360 (0.34")<br>CALCULATED VERT. DEFL.(LL) = L/999 (0.01")<br>ALLOWABLE DEFL.(TL)= L/360 (0.34")<br>CALCULATED VERT. DEFL.(TL) = L/999 (0.02")<br>CSI: TC=0.28/1.00 (B-C:1), BC=0.17/1.00 (H-I:1), WB=0.21/1.00 (B-I:1), SSI=0.14/1.00 (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>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= 0.84 (H) (INPUT = 0.90)<br>JSI METAL= 0.22 (H) (INPUT = 0.95) |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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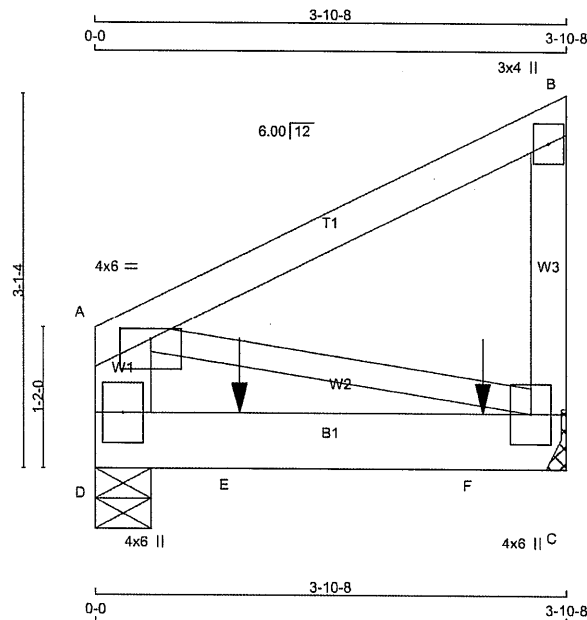
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DWG # TR23092001

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|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T37        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:18.3

TOTAL WEIGHT = 2 X 18 = 37 lb

| LUMBER                |      |        |      | DESCR. |  |
|-----------------------|------|--------|------|--------|--|
| CHORDS                | SIZE | LUMBER |      | SPF    |  |
| D - A                 | 2x6  | DRY    | No.2 | SPF    |  |
| A - B                 | 2x4  | DRY    | No.2 | SPF    |  |
| C - B                 | 2x4  | DRY    | No.2 | SPF    |  |
| D - C                 | 2x6  | DRY    | No.2 | SPF    |  |
| ALL WEBS 2x3 DRY No.2 |      |        |      | SPF    |  |
| DRY: SEASONED LUMBER. |      |        |      |        |  |

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

| CHORDS #ROWS                             | SURFACE SPACING (IN) | LOAD(PLF) |
|------------------------------------------|----------------------|-----------|
| TOP CHORDS : (0.122"x3") SPIRAL NAILS    |                      |           |
| D-A 2 12                                 |                      | TOP       |
| A-B 1 12                                 |                      | TOP       |
| B-C 1 12                                 |                      | TOP       |
| BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS |                      |           |
| D-C 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 | X         |
| A                           | TMVW-p  | MT20   | 4.0 | 6.0 | 1.00 3.00 |
| B                           | TMVW-p  | MT20   | 3.0 | 4.0 |           |
| C                           | BMVW1+p | MT20   | 4.0 | 6.0 |           |
| D                           | BMV1+p  | MT20   | 4.0 | 6.0 |           |

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

| BEARINGS |      | FACTORED       |      | MAXIMUM FACTORED |      | INPUT      |       | REQD |       |
|----------|------|----------------|------|------------------|------|------------|-------|------|-------|
| JT       | VERT | GROSS REACTION | HORZ | GROSS REACTION   | HORZ | BRG        | IN-SX | BRG  | IN-SX |
| D        | 694  | 0              | 694  | 0                | 0    | 5-8        | 1-8   |      |       |
| C        | 838  | 0              | 838  | 0                | 0    | MECHANICAL |       |      |       |

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

#### UNFACTORED REACTIONS

| 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |         |       |           |       |         |       |  |  |
|-----------|-------------------------------|---------|-------|-----------|-------|---------|-------|--|--|
| JT        | COMBINED                      | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |  |  |
| D         | 489                           | 329 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 160 / 0 | 0 / 0 |  |  |
| C         | 591                           | 398 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 193 / 0 | 0 / 0 |  |  |

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

#### 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     |       | FACTORED |       |
|--------|----------|------------|--------|----------|-------|----------|-------|
| MEMB.  | FORCE    | VERT. LOAD | LC1    | MAX      | MEMB. | FORCE    | MAX   |
| (LBS)  | (PLF)    | CS1 (LC)   | UNBRAC | LENGTH   | (LBS) | CS1 (LC) |       |
| FR-TO  |          | FROM       | TO     |          | FR-TO |          |       |
| D-A    | -178 / 0 | 0.0        | 0.0    | 0.01 (1) | 7.81  | A-C      | 0 / 0 |
| A-B    | 0 / 0    | -91.8      | -91.8  | 0.13 (1) | 10.00 |          |       |
| C-B    | -178 / 0 | 0.0        | 0.0    | 0.01 (1) | 7.81  |          |       |
| D-E    | 0 / 0    | -18.5      | -18.5  | 0.22 (1) | 10.00 |          |       |
| E-F    | 0 / 0    | -18.5      | -18.5  | 0.22 (1) | 10.00 |          |       |
| F-C    | 0 / 0    | -18.5      | -18.5  | 0.22 (1) | 10.00 |          |       |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.  | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|-------|------|------|------|------|------|-------|------|-------|
| E  | 1-2-4 | -388 | -388 | ---  | BACK | VERT | TOTAL | ---  | C1    |
| F  | 3-2-4 | -390 | -390 | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.04 (A) (INPUT = 0.90 )  
JSI METAL= 0.02 (B) (INPUT = 0.95 )



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|                    |                   |               |          |                               |          |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>435001 | TRUSS NAME<br>T37 | QUANTITY<br>1 | PLY<br>2 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|----------|

Tamarack Roof Truss, Burlington

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



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|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T37Z       | 1        | 2   | TRUSS DESC. |                  |          |

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



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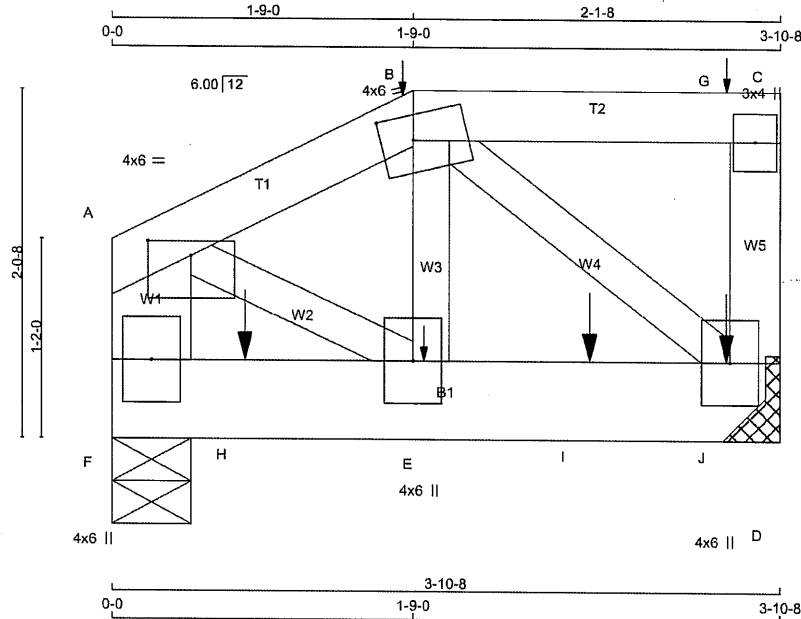
Per: joshua.nabua



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | T38        | 1        | 2   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:45 2023 Page 1  
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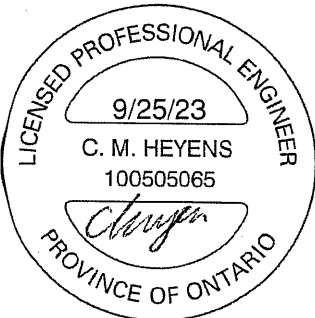
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER DESCR.<br>A - B 2x4 DRY No.2 SPF<br>B - C 2x4 DRY No.2 SPF<br>D - C 2x4 DRY No.2 SPF<br>F - A 2x6 DRY No.2 SPF<br>F - D 2x6 DRY No.2 SPF<br><br>ALL WEBS 2x3 DRY No.2 SPF<br>EXCEPT<br><br>DRY: SEASONED LUMBER.<br><br>DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:<br><br>CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)<br>TOP CHORDS : (0.122"x3") SPIRAL NAILS<br>A-B 1 12 SIDE(61.0)<br>B-C 1 12 SIDE(61.0)<br>C-D 1 9 SIDE(22.8)<br>F-A 2 12 TOP<br>BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS<br>F-D 2 12 SIDE(122.0)<br>WEBS : (0.122"x3") SPIRAL NAILS<br>2x3 1 6<br><br>NAILS TO BE DRIVEN FROM ONE SIDE ONLY.<br><br>GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.<br><br>TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.<br><br>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.<br><br><b>PLATES (table is in inches)</b><br>JT TYPE PLATES W LEN Y X<br>A TMWV-p MT20 4.0 6.0 1.00 3.00 |  |  |  | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b><br><b>BEARINGS</b><br>FACTORED MAXIMUM FACTORED INPUT REQD<br>GROSS REACTION GROSS REACTION BRG BRG<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX<br>D 1589 0 1589 0 0 5-8 1-8<br>F 1917 0 1917 0 0 5-8 1-8<br><br>A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.<br><br><b>UNFACTORED REACTIONS</b><br>JT 1ST LCASE MAX /MIN. COMPONENT REACTIONS<br>COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>D 1122 748 / 0 0 / 0 0 / 0 0 / 0 376 / 0 0 / 0<br>F 1352 907 / 0 0 / 0 0 / 0 0 / 0 445 / 0 0 / 0<br><br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F<br><br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.<br><br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.<br><br><b>LOADING</b><br>TOTAL LOAD CASES: (7)<br><br>CHORDS WEBS<br>MAX. FACTORED MAX. FACTORED<br>MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX.<br>(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)<br>FR-TO FROM TO<br>A-B -1263 / 0 -91.8 -91.8 0.03 (1) 6.25 E-B 0 / 1340 0.17 (1)<br>B-G 0 / 0 -91.8 -91.8 0.04 (1) 10.00 B-D -1537 / 0 0.14 (1)<br>G-C 0 / 0 -91.8 -91.8 0.04 (1) 10.00 A-E 0 / 1222 0.15 (1)<br>D-C -97 / 0 0.0 0.0 0.01 (1) 7.81<br>F-A -1121 / 0 0.0 0.0 0.04 (1) 7.81<br><br>F-H 0 / 0 -18.5 -18.5 0.22 (1) 10.00<br>H-E 0 / 0 -18.5 -18.5 0.22 (1) 10.00<br>E-I 0 / 1212 -18.5 -18.5 0.30 (1) 10.00<br>I-J 0 / 1212 -18.5 -18.5 0.30 (1) 10.00<br>J-D 0 / 1212 -18.5 -18.5 0.30 (1) 10.00<br><br>SPECIFIED CONCENTRATED LOADS (LBS)<br>JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE HEEL CONN.<br>B 1-9-0 1 1 78 BACK VERT TOTAL --- C1<br>E 1-9-12 1 1 --- BACK VERT TOTAL --- C1<br>G 3-6-12 1 1 60 BACK VERT TOTAL --- C1<br>H 9-4 -1128 -1128 --- FRONT VERT TOTAL --- C1<br>I 2-9-4 -1041 -1041 --- FRONT VERT TOTAL --- C1<br>J 3-6-12 -2 -2 --- BACK VERT TOTAL --- C1<br><br><b>CONNECTION REQUIREMENTS</b><br>1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED. |  |  |  | <b>DESIGN CRITERIA</b><br><br>SPECIFIED LOADS:<br>TOP CH. LL = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><br><b>SPACING = 24.0 IN. C/C</b><br><br>LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12<br><br>THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2015<br><br>THIS DESIGN COMPLIES WITH:<br>- PART 9 OF BCBC 2018, NBC-2019AE<br>- PART 9 OF OBC 2012 (2019 AMENDMENT)<br>- CSA 086-14<br>- TPIC 2014<br><br>(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<br><br>ALLOWABLE DEFL.(LL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")<br>ALLOWABLE DEFL.(TL)= L/360 (0.19")<br>CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")<br><br>CSI: TC=0.04/1.00 (A-F:1), BC=0.30/1.00 (D-E:1), WB=0.17/1.00 (B-E:1), SSI=0.32/1.00 (D-E:1)<br>DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00<br>COMP=1.00 SHEAR=1.00 TENS=1.00<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= 0.88 (B) (INPUT = 0.90 )<br>JSI METAL= 0.29 (B) (INPUT = 0.95 ) |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|

LICENSED PROFESSIONAL ENGINEER  
9/25/23  
C. M. HEYENS  
100505065  
PROVINCE OF ONTARIO

STRUCTURAL COMPONENT ONLY  
DWG # TR23092004

CITY OF RICHMOND HILL  
BUILDING DIVISION  
05/01/2024  
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STRUCTURAL COMPONENT ONLY  
DWG # TR23092004

CITY OF RICHMOND HILL  
BUILDING DIVISION  
05/01/2024  
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Per: joshua.nabua

CONTINUED ON PAGE 2

|                                 |            |          |     |                  |          |
|---------------------------------|------------|----------|-----|------------------|----------|
| JOB NAME                        | TRUSS NAME | QUANTITY | PLY | JOB DESC.        | DRWG NO. |
| 435001                          | T38        | 1        | 2   | GREEN PARK HOMES |          |
| Tamarack Roof Truss, Burlington |            |          |     | TRUSS DESC.      |          |

**PLATES (table is in inches)**  

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TTWW-m  | MT20   | 4.0 | 6.0 | 1.75 | 2.25 |
| C  | TMV+p   | MT20   | 3.0 | 4.0 |      |      |
| D  | BMVW1+p | MT20   | 4.0 | 6.0 |      |      |
| E  | BMVW+t  | MT20   | 4.0 | 6.0 |      |      |
| F  | BMV1+p  | MT20   | 4.0 | 6.0 |      |      |

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



STRUCTURAL COMPONENT ONLY  
DWG # TR23092004

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Tamarack Roof Truss, Burlington



TOTAL WEIGHT = 81 lb

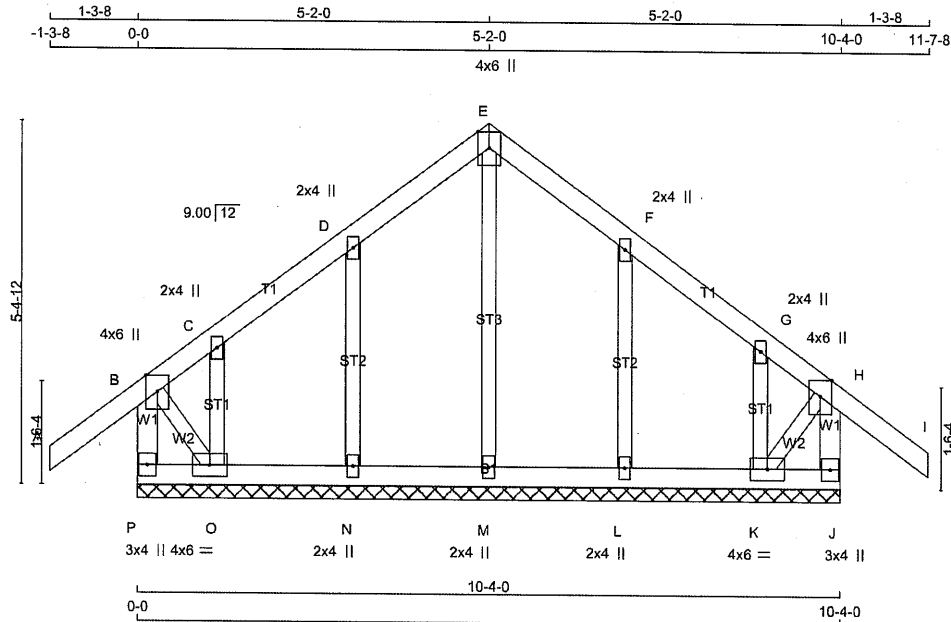
JSI GRIP= 0.16 (K) (INPUT = 0.90 )  
JSI METAL= 0.11 (G) (INPUT = 0.95 )



|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 434999   | G100       | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:32.8

TOTAL WEIGHT = 48 lb

#### LUMBER

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

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

GABLE STUDS SPACED AT 2-0-0 OC.

#### PLATES (table is in inches)

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

##### BRACING

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

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

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

##### LOADING

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                        | WEBS  |                           |                        |                 |
|--------|---------------------------|---------------------------|------------------------|-------|---------------------------|------------------------|-----------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) | UNBRACED LENGTH |
| FR-TO  |                           | FROM TO                   |                        | FR-TO |                           |                        |                 |
| P-B    | -267 / 0                  | 0.0                       | 0.0 0.03 (1)           | M-E   | -146 / 0                  | 0.06 (1)               | 7.81            |
| A-B    | 0 / 38                    | -91.8                     | -91.8 0.12 (1)         | N-D   | -222 / 0                  | 0.05 (1)               | 10.00           |
| B-C    | -56 / 0                   | -91.8                     | -91.8 0.12 (1)         | O-C   | -49 / 0                   | 0.01 (1)               | 6.25            |
| C-D    | 0 / 0                     | -91.8                     | -91.8 0.06 (1)         | L-F   | -222 / 0                  | 0.05 (1)               | 10.00           |
| D-E    | -16 / 0                   | -91.8                     | -91.8 0.06 (1)         | K-G   | -49 / 0                   | 0.01 (1)               | 6.25            |
| E-F    | -16 / 0                   | -91.8                     | -91.8 0.06 (1)         | B-O   | 0 / 14                    | 0.00 (1)               | 6.25            |
| F-G    | 0 / 0                     | -91.8                     | -91.8 0.06 (1)         | K-H   | 0 / 14                    | 0.00 (1)               | 10.00           |
| G-H    | -56 / 0                   | -91.8                     | -91.8 0.12 (1)         |       |                           |                        | 6.25            |
| H-I    | 0 / 38                    | -91.8                     | -91.8 0.12 (1)         |       |                           |                        | 10.00           |
| J-H    | -267 / 0                  | 0.0                       | 0.0 0.03 (1)           |       |                           |                        | 7.81            |
| P-O    | 0 / 0                     | -18.5                     | -18.5 0.01 (4)         |       |                           |                        | 10.00           |
| O-N    | 0 / 8                     | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00           |
| N-M    | 0 / 2                     | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00           |
| M-L    | 0 / 2                     | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00           |
| L-K    | 0 / 8                     | -18.5                     | -18.5 0.02 (4)         |       |                           |                        | 10.00           |
| K-J    | 0 / 0                     | -18.5                     | -18.5 0.01 (4)         |       |                           |                        | 10.00           |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (N-O:4), WB=0.06/1.00 (E-M:1), SSI=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (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= 0.15 (F) (INPUT = 0.90 )  
JSI METAL= 0.12 (F) (INPUT = 0.95 )



STRUCTURAL COMPONENT ONLY  
DWG # TR23091956

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

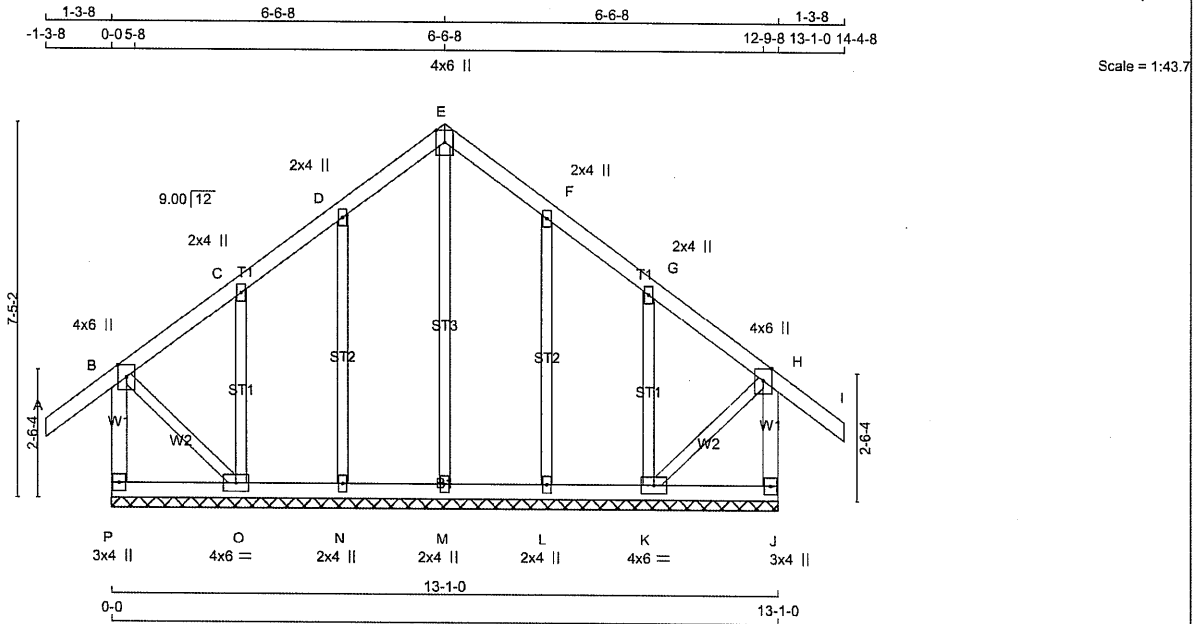
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Per: joshua.nabua

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | G260       | 1        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:41:04 2023 Page 1  
ID:30ONCOInb0LJwV30iB09iFyil5 -mnbtY kFOOyHHDqEYii8vnhjHao6ZmqzbJWuK?ya8SD



TOTAL WEIGHT = 68 lb

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

| PLATES (table is in inches) |         |        |     |     |      |
|-----------------------------|---------|--------|-----|-----|------|
| JT                          | TYPE    | PLATES | W   | LEN | Y X  |
| B                           | TMVW+p  | MT20   | 4.0 | 6.0 | Edge |
| C, D, F, G                  |         |        |     |     |      |
| C                           | TMVW+w  | MT20   | 2.0 | 4.0 |      |
| E                           | TTW+p   | MT20   | 4.0 | 6.0 | Edge |
| H                           | TMVW+p  | MT20   | 4.0 | 6.0 | Edge |
| J                           | BMV1+p  | MT20   | 3.0 | 4.0 |      |
| K                           | BMVW1-t | MT20   | 4.0 | 6.0 |      |
| L, M, N                     |         |        |     |     |      |
| L                           | BMV1+w  | MT20   | 2.0 | 4.0 |      |
| O                           | BMVW1-t | MT20   | 4.0 | 6.0 |      |
| P                           | 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**

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

**BRACING**

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

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

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

| LOADING               |                           |                  |                      |                           |       |                           |                      |                           |       |
|-----------------------|---------------------------|------------------|----------------------|---------------------------|-------|---------------------------|----------------------|---------------------------|-------|
| TOTAL LOAD CASES: (4) |                           |                  |                      |                           |       |                           |                      |                           |       |
| CHORDS                |                           | FACTORED         |                      |                           |       | WEBS                      |                      |                           |       |
| MEMB.                 | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | MAX. VERT. LOAD (LC) | MAX. UNBRACED LENGTH (FT) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. VERT. LOAD (LC) | MAX. UNBRACED LENGTH (FT) | MEMB. |
| FR-TO                 |                           | FROM             | TO                   |                           | FR-TO |                           | FROM                 | TO                        |       |
| P-B                   | -241 / 0                  | 0.0              | 0.0                  | 0.03 (1)                  | 7.81  | M-E                       | -149 / 0             | 0.14 (1)                  |       |
| A-B                   | 0 / 38                    | -91.8            | -91.8                | 0.12 (1)                  | 10.00 | N-D                       | -195 / 0             | 0.11 (1)                  |       |
| B-C                   | -5 / 0                    | -91.8            | -91.8                | 0.07 (1)                  | 10.00 | O-C                       | -228 / 0             | 0.07 (1)                  |       |
| C-D                   | -15 / 0                   | -91.8            | -91.8                | 0.07 (1)                  | 6.25  | L-F                       | -195 / 0             | 0.11 (1)                  |       |
| D-E                   | -17 / 0                   | -91.8            | -91.8                | 0.05 (1)                  | 6.25  | K-G                       | -228 / 0             | 0.07 (1)                  |       |
| E-F                   | -17 / 0                   | -91.8            | -91.8                | 0.05 (1)                  | 6.25  | B-O                       | 0 / 18               | 0.00 (1)                  |       |
| F-G                   | -15 / 0                   | -91.8            | -91.8                | 0.07 (1)                  | 6.25  | K-H                       | 0 / 18               | 0.00 (1)                  |       |
| G-H                   | -5 / 0                    | -91.8            | -91.8                | 0.07 (1)                  | 10.00 |                           |                      |                           |       |
| H-I                   | 0 / 38                    | -91.8            | -91.8                | 0.12 (1)                  | 10.00 |                           |                      |                           |       |
| J-H                   | -241 / 0                  | 0.0              | 0.0                  | 0.03 (1)                  | 7.81  |                           |                      |                           |       |
| P-O                   | 0 / 0                     | -18.5            | -18.5                | 0.03 (4)                  | 10.00 |                           |                      |                           |       |
| O-N                   | 0 / 9                     | -18.5            | -18.5                | 0.03 (4)                  | 10.00 |                           |                      |                           |       |
| N-M                   | 0 / 6                     | -18.5            | -18.5                | 0.02 (4)                  | 10.00 |                           |                      |                           |       |
| M-L                   | 0 / 6                     | -18.5            | -18.5                | 0.02 (4)                  | 10.00 |                           |                      |                           |       |
| L-K                   | 0 / 9                     | -18.5            | -18.5                | 0.03 (4)                  | 10.00 |                           |                      |                           |       |
| K-J                   | 0 / 0                     | -18.5            | -18.5                | 0.03 (4)                  | 10.00 |                           |                      |                           |       |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

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

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

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

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

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

CSI: TC=0.12/1.00 (H-I:1) , BC=0.03/1.00 (N-O:4) , WB=0.14/1.00 (E-M:1) , SSI=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE GRIP(DRY) | SHEAR (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 (C) (INPUT = 0.90 )  
JSI METAL= 0.12 (C) (INPUT = 0.95 )



STRUCTURAL COMPONENT ONLY  
DWG # TR23091977

CITY OF RICHMOND HILL  
BUILDING DIVISION

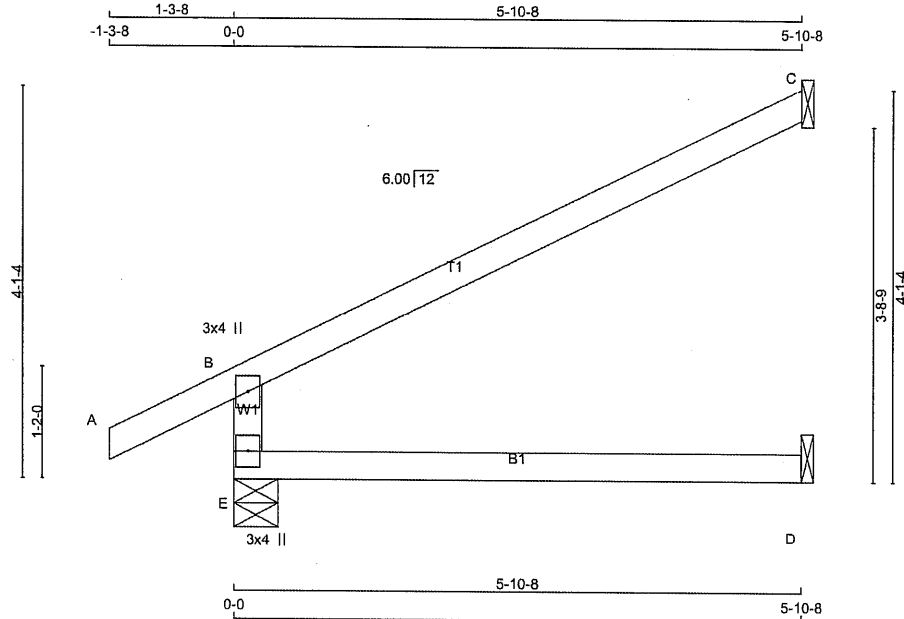
05/01/2024

RECEIVED  
Per: joshua.nabua

|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>434999 | TRUSS NAME<br>J01 | QUANTITY<br>9 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:23.1

TOTAL WEIGHT = 9 X 17 = 151 lb

#### LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

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

#### NOTES-

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

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

##### BEARINGS

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG IN-SX | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|-----------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                 |                 |
| E  | 525                     | 0    | 525                             | 0    | 5-8             | 1-8             |
| C  | 202                     | 0    | 202                             | 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 | MAX./MIN. COMPONENT REACTIONS |       |       |           |         |
|----|-----------|-------------------------------|-------|-------|-----------|---------|
|    |           | COMBINED                      | SNOW  | LIVE  | PERM.LIVE | WIND    |
| E  | 369       | 257 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 111 / 0 |
| C  | 139       | 113 / 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)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD |       |          | MAX. UNBRAC LENGTH | WEBS | MAX. FACTORED FORCE (LBS) |
|-------|--------|---------------------------|---------------------|-------|----------|--------------------|------|---------------------------|
|       |        |                           | LC1                 | LC2   | LC3      |                    |      |                           |
| FR-TO |        |                           | FROM                | TO    |          |                    |      |                           |
| E-B   |        | -461 / 0                  | 0.0                 | 0.0   | 0.13 (4) | 7.81               |      |                           |
| A-B   |        | 0 / 28                    | -91.8               | -91.8 | 0.12 (1) | 10.00              |      |                           |
| B-C   |        | -30 / 0                   | -91.8               | -91.8 | 0.54 (1) | 6.25               |      |                           |
| E-D   |        | 0 / 0                     | -18.5               | -18.5 | 0.13 (4) | 10.00              |      |                           |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (E) (INPUT = 0.90)  
JSI METAL= 0.13 (B) (INPUT = 0.95)



STRUCTURAL COMPONENT ONLY  
DWG # TR23091957

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

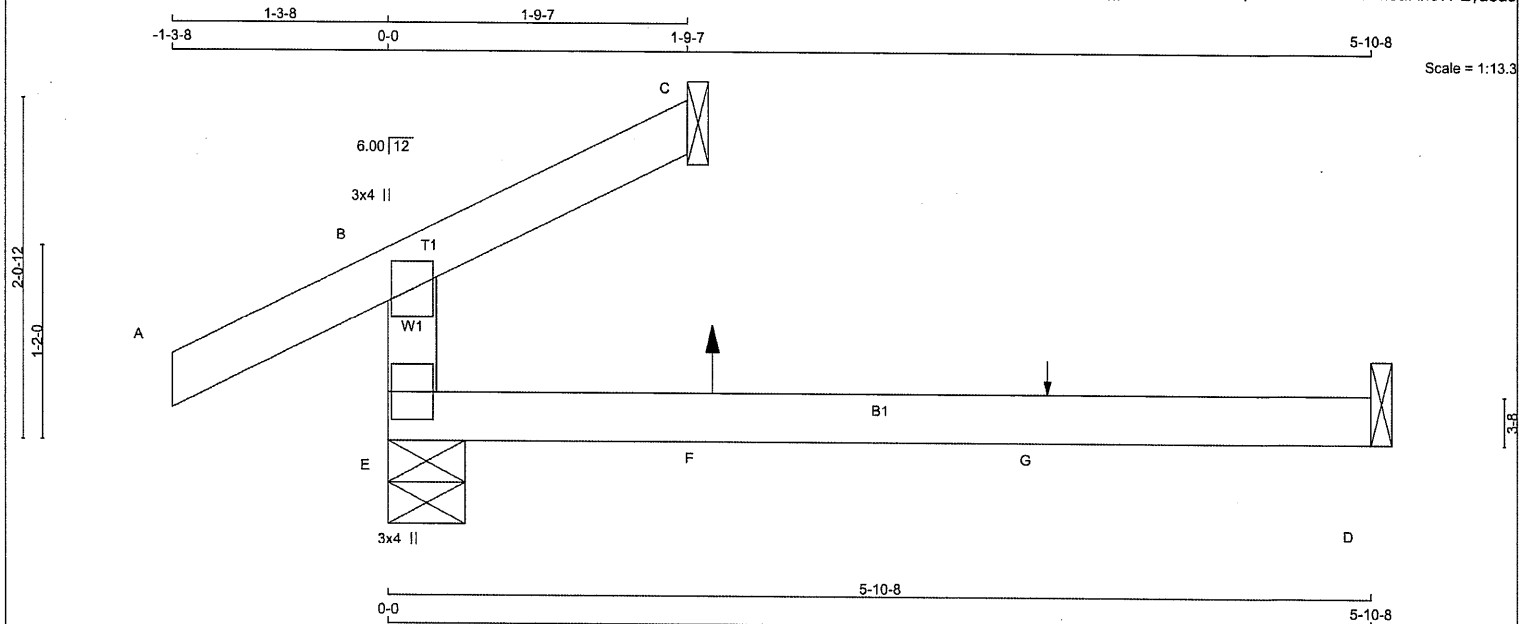
RECEIVED

Per: joshua.nabua



|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>434999</b>       | TRUSS NAME<br><b>J02</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

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TOTAL WEIGHT = 2 X 12 = 23 lb

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

DRY: SEASONED LUMBER.

#### PLATES (table in inches)

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

#### 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 |
| E        | 284            | 0        | 0    | 284              | 0    | 0     | 0      | 5-8   | 1-8   |
| C        | 63             | 0        | 0    | 63               | 0    | 0     | 0      | 1-8   | 1-8   |
| D        | 44             | 0        | 0    | 52               | 0    | 0     | 0      | 1-8   | 1-8   |

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  | 200       | 137 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 62 / 0 | 0 / 0 |
| C  | 46        | 21 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 25 / 0 | 0 / 0 |
| D  | 35        | 0 / -3  | 0 / 0 | 0 / 0     | 0 / 0 | 37 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (7)

| CHORDS |          | FACTORED   |                | WEBS  |       | MAX. FACTORED |     |
|--------|----------|------------|----------------|-------|-------|---------------|-----|
| MEMB.  | FORCE    | VERT. LOAD | LC1 MAX        | MEMB. | FORCE | MAX           | MAX |
|        | (LBS)    | (PLF)      | CSI (LC)       |       | (LBS) | CSI (LC)      |     |
| FR-TO  |          | FROM       | TO             | FR-TO |       |               |     |
| E-B    | -227 / 0 | 0.0        | 0.0 0.11 (4)   | 7.81  |       |               |     |
| A-B    | 0 / 28   | -91.8      | -91.8 0.12 (1) | 10.00 |       |               |     |
| B-C    | -9 / 9   | -91.8      | -91.8 0.08 (4) | 10.00 |       |               |     |
| E-F    | 0 / 0    | -18.5      | -18.5 0.14 (4) | 10.00 |       |               |     |
| F-G    | 0 / 0    | -18.5      | -18.5 0.14 (4) | 10.00 |       |               |     |
| G-D    | 0 / 0    | -18.5      | -18.5 0.14 (4) | 10.00 |       |               |     |

#### SPECIFIED CONCENTRATED LOADS (LBS)

| JT | LOC.   | LC1 | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-----|------|------|------|------|-------|------|-------|
| F  | 1-11.4 | 5   | 1    | 8    | BACK | VERT | TOTAL | ---  | C1    |
| G  | 3-11.4 | 1   | 1    | ---  | BACK | VERT | TOTAL | ---  | C1    |

#### CONNECTION REQUIREMENTS

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

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

| PLATE | GRIP(DRY) | SHEAR | SECTION            |
|-------|-----------|-------|--------------------|
| (PSI) | (PLI)     | (PLI) |                    |
| 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= 0.06 (B) (INPUT = 0.95)



STRUCTURAL COMPONENT ONLY  
DWG # TR23091958

CITY OF RICHMOND HILL  
BUILDING DIVISION

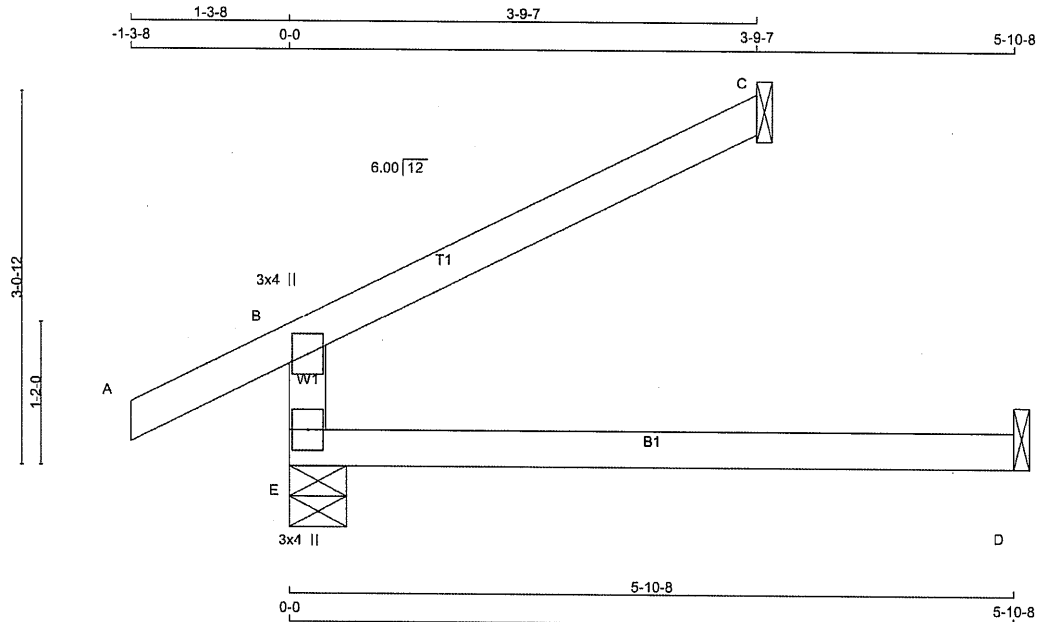
05/01/2024

RECEIVED

Per: joshua.nabua

|                                 |                   |               |          |                               |          |
|---------------------------------|-------------------|---------------|----------|-------------------------------|----------|
| JOB NAME<br>434999              | TRUSS NAME<br>J03 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | DRWG NO. |
| Tamarack Roof Truss, Burlington |                   |               |          | TRUSS DESC.                   |          |

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Scale = 1:18.1

TOTAL WEIGHT = 2 X 14 = 28 lb

| LUMBER | 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 |      | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG |       | REQRD BRG |       |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|-------|-----------|-------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX | BRG       | IN-SX |
| E        | 405  | 0                       | 405  | 0                               | 0      | 5-8       | 1-8   | 1-8       |       |
| C        | 130  | 0                       | 130  | 0                               | 0      | 1-8       | 1-8   | 1-8       |       |
| D        | 45   | 0                       | 50   | 0                               | 0      | 1-8       | 1-8   | 1-8       |       |

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  | 286       | 190 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 96 / 0 | 0 / 0 |
| C  | 90        | 73 / 0                        | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 17 / 0 | 0 / 0 |
| D  | 36        | 0 / 0                         | 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)

| CHORDS |             | FACTORED   |                | WEBS       |             |
|--------|-------------|------------|----------------|------------|-------------|
| MEMB.  | FORCE (LBS) | VERT. LOAD | LC1 MAX        | MAX. MEMB. | FORCE (LBS) |
| FR-TO  |             | FROM       | TO             | LENGTH     | FR-TO       |
| E-B    | -342 / 0    | 0.0        | 0.0 0.13 (4)   | 7.81       |             |
| A-B    | 0 / 28      | -91.8      | -91.8 0.12 (1) | 10.00      |             |
| B-C    | -19 / 0     | -91.8      | -91.8 0.22 (1) | 6.25       |             |
| E-D    | 0 / 0       | -18.5      | -18.5 0.13 (4) | 10.00      |             |

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

**DESIGN ASSUMPTIONS**

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)  
JSI METAL= 0.09 (B) (INPUT = 0.95)



STRUCTURAL COMPONENT ONLY  
DWG # TR23091959

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

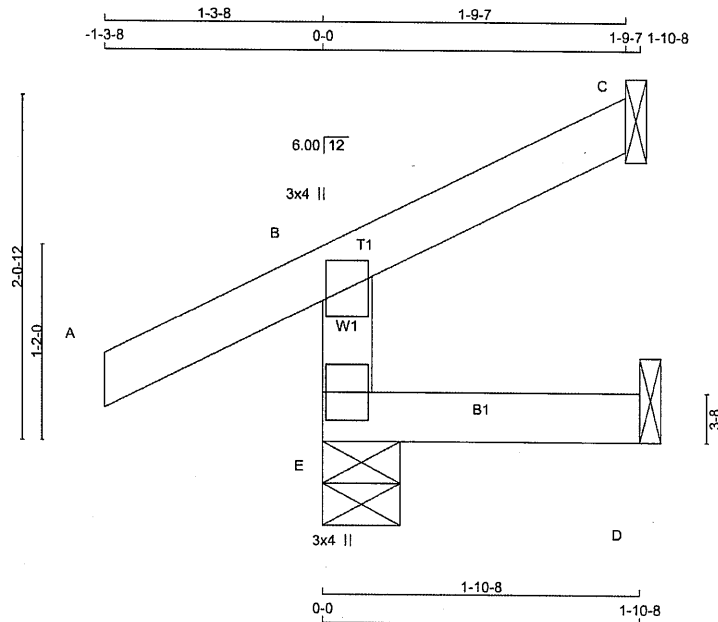
RECEIVED

Per: joshua.nabua

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 434999   | J04        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:31:53 2023 Page 1  
ID:ApW10ITFUUp4gggnoQJW59yikbP-OnoZva3d95XSqYCLmUJw4aMYQSk3zbfu5YEURya8ac



Scale = 1:13.2

|                                                                                                                                                         |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |                                                                                                                                                                                              |  |  |  |                                  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------|--|--|--|
| <b>LUMBER</b><br>N. L. G. A. RULES<br>CHORDS SIZE LUMBER<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>DESIGN CRITERIA</b><br>SPECIFIED LOADS:<br>TOP CH. LL = 25.6 PSF<br>DL = 6.0 PSF<br>BOT CH. LL = 0.0 PSF<br>DL = 7.4 PSF<br>TOTAL LOAD = 39.0 PSF<br><br><b>SPACING = 24.0 IN. C/C</b><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 CBC 2018, NBC-2019AE<br>- PART 9 OF CBC 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 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD<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=0.12/1.00 (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)<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<br>(P.S.I) (P.LI) (P.LI)<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= 0.10 (E) (INPUT = 0.90 )<br>JSI METAL= 0.07 (B) (INPUT = 0.95 ) |  |  |  | <b>BEARINGS</b><br>FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQ'D<br>JT VERT HORZ DOWN HORZ UPLIFT IN-SX BRG IN-SX BRG<br>E 271 0 271 0 0 5-8 1-8<br>C 45 0 45 0 -23 1-8 1-8<br>D 8 0 17 0 -2 1-8 1-8<br><br>SEE MITTEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C , D<br><br>PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT<br>PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS FACTORED UPLIFT<br><br><b>UNFACTORED REACTIONS</b><br>1ST LCASE MAX./MIN. COMPONENT REACTIONS<br>JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL<br>E 188 141 / 0 0 / 0 0 / 0 0 / 0 47 / 0 0 / 0<br>C 31 24 / -18 0 / 0 0 / 0 0 / 0 7 / 0 0 / 0<br>D 7 0 / -8 0 / 0 0 / 0 0 / 0 12 / 0 0 / 0<br><br>BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C<br><br><b>BRACING</b><br>TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.<br>MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.<br><br>ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.<br><br><b>LOADING</b><br>TOTAL LOAD CASES: (5)<br><br>CHORDS WEBS<br>MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX.<br>(LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC)<br>FR-TO FROM TO<br>E-B -244 / 0 0.0 0.0 0.04 (5) 7.81<br>A-B 0 / 28 -91.8 -91.8 0.12 (1) 10.00<br>B-C -17 / 0 -91.8 -91.8 0.09 (1) 6.25<br><br>E-D 0 / 0 -18.5 -18.5 0.04 (5) 10.00<br><br>CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN |  |  |  | <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- (1)</b><br>1) Lateral braces to be a minimum of 2X4 SPF #2. |  |  |  | TOTAL WEIGHT = 2 X 7 = 14 lb [M] |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------|--|--|--|



STRUCTURAL COMPONENT ONLY  
DWG # TR23091960

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

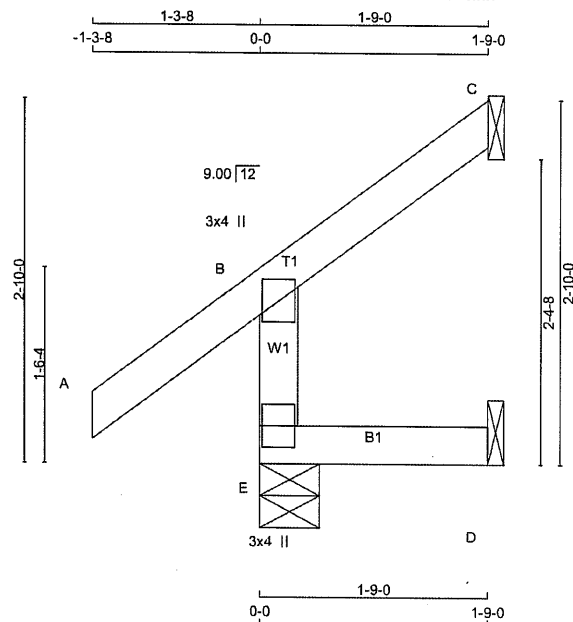
RECEIVED  
Per: joshua.nabua



|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>434999 | TRUSS NAME<br>J06 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

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Scale = 1:17.2

TOTAL WEIGHT = 2 X 8 = 16 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      |
| E  | 273                     | 0                               | 273       | 0         |
| C  | 40                      | 0                               | 40        | 0         |
| D  | 6                       | 0                               | 15        | 0         |

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 | MAX/MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|------------------------------|-------|-------|-----------|-------|--------|-------|
| E  | 190       | 143 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 47 / 0 | 0 / 0 |
| C  | 28        | 22 / -20                     | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 6 / 0  | 0 / 0 |
| D  | 6         | 0 / -8                       | 0 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 11 / 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 | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1  | MAX | CS1 (LC) | UNBRAC LENGTH | FR-TO | WEBS | MEMB. | MAX. FACTORED FORCE (LBS) | CS1 (LC) |
|--------|----------|---------------------------|---------------------------|------|-----|----------|---------------|-------|------|-------|---------------------------|----------|
| E-B    | -247 / 0 | 0.0                       | 0.0                       | 0.04 | (5) | 7.81     |               |       |      |       |                           |          |
| A-B    | 0 / 38   | -91.8                     | -91.8                     | 0.12 | (1) | 10.00    |               |       |      |       |                           |          |
| B-C    | -24 / 0  | -91.8                     | -91.8                     | 0.10 | (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 | =    | 25.6 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.4  | PSF |
| TOTAL LOAD | =  | 39.0 | PSF  |     |

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
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=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

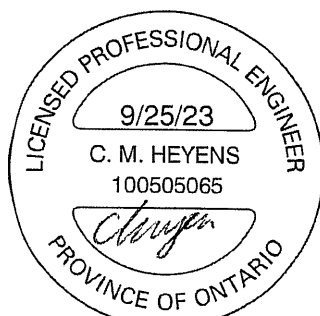
JSI GRIP= 0.11 (B) (INPUT = 0.90 )  
JSI METAL= 0.09 (B) (INPUT = 0.95 )

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua



STRUCTURAL COMPONENT ONLY  
DWG # TR23091962

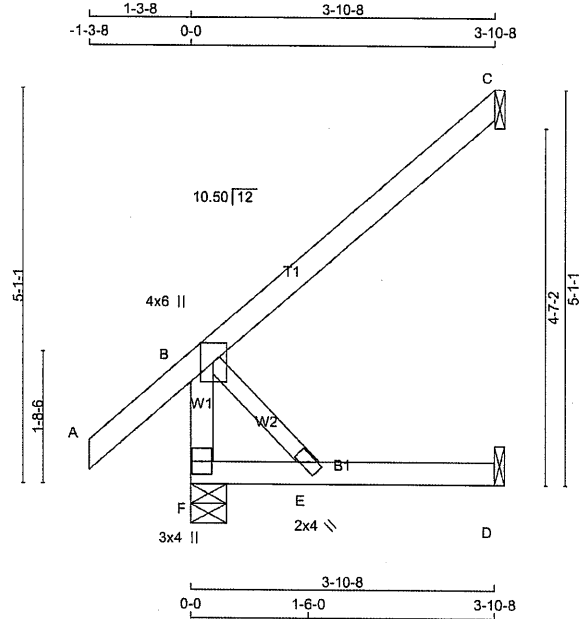




|                           |                          |                      |                 |                                      |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>434999</b> | TRUSS NAME<br><b>J08</b> | QUANTITY<br><b>7</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
|                           |                          |                      |                 | TRUSS DESC.                          |          |

Tamarack Roof Truss, Burlington

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Scale = 1:28.4

TOTAL WEIGHT = 7 X 16 = 109 lb

LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

F - B

2x4

DRY

No.2

SPF

A - C

2x4

DRY

No.2

SPF

F - D

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

B

TMVW+p

MT20

4.0

6.0

Edge

2.00

E

BMW+w

MT20

2.0

4.0

F

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 GROSS REACTION

MAXIMUM FACTORED GROSS REACTION

INPUT BRG

REQRD BRG

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

F

341

0

341

0

0

1-8

1-8

C

178

0

178

0

0

1-8

1-8

D

36

0

40

0

0

1-8

1-8

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

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

F

239

170 / 0

0 / 0

0 / 0

0 / 0

69 / 0

0 / 0

C

122

99 / 0

0 / 0

0 / 0

0 / 0

23 / 0

0 / 0

D

29

0 / 0

0 / 0

0 / 0

0 / 0

29 / 0

0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS

MEMB.

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD (PLF)

LOAD LC1

MAX

CS1 (LC)

UNBRAC LENGTH

MEMB.

MAX. FACTORED FORCE (LBS)

MAX

CS1 (LC)

FR-TO

F-B

-305 / 0

0.0

0.0

0.03 (1)

7.81

B-E

0 / 0

0.00 (1)

A-B

0 / 42

-91.8

-91.8

0.14 (5)

10.00

B-C

0 / 0

-91.8

-91.8

0.23 (1)

10.00

F-E

0 / 0

-18.5

-18.5

0.08 (4)

10.00

E-D

0 / 0

-18.5

-18.5

0.08 (4)

10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.

LL

=

25.6

PSF

DL

=

6.0

PSF

BOT CH.

LL

=

0.0

PSF

DL

=

7.4

PSF

TOTAL LOAD

=

39.0

PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018 , NBC-2019AE

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")

ALLOWABLE DEFL.(TL)= L/360 (0.19")

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

CSI: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.10/1.00 (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



STRUCTURAL COMPONENT ONLY  
DWG # TR23091964

CITY OF RICHMOND HILL  
BUILDING DIVISION

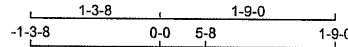
05/01/2024

RECEIVED  
Per: joshua.nabua

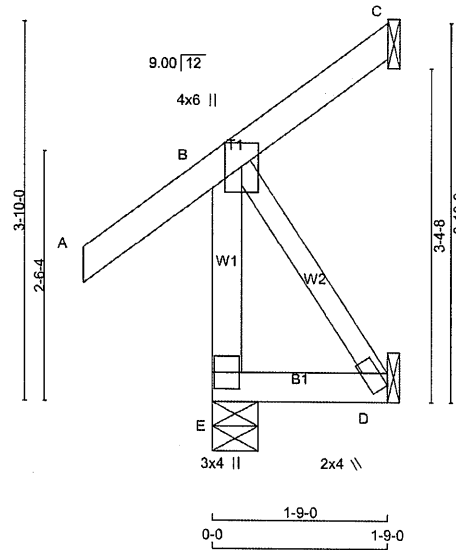
|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435000   | J09        | 2        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

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Scale = 1:22.3



TOTAL WEIGHT = 2 X 11 = 22 lb

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y    | X |
|----|--------|--------|-----|-----|------|---|
| B  | TMWw+p | MT20   | 4.0 | 6.0 | Edge |   |
| D  | BMW1+w | MT20   | 2.0 | 4.0 | Edge |   |
| E  | 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 |                         |      |                                 |      |           |           |       |
|----------|-------------------------|------|---------------------------------|------|-----------|-----------|-------|
| JT       | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQRD BRG |       |
|          | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT    | IN-SX     | IN-SX |
| E        | 272                     | 0    | 272                             | 0    | 0         | 5-8       | 1-8   |
| C        | 30                      | 0    | 30                              | 0    | -40       | 1-8       | 1-8   |
| D        | 15                      | 0    | 17                              | 0    | 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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
|----|-----------|-------------------------------|-------|-----------|-------|--------|-------|
|    | COMBINED  | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| E  | 189       | 143 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 46 / 0 | 0 / 0 |
| C  | 21        | 17 / -28                      | 0 / 0 | 0 / 0     | 0 / 0 | 4 / 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)

| MEMB. | CHORDS                    |                           |              |                     | WEBS  |                           |              |                     |
|-------|---------------------------|---------------------------|--------------|---------------------|-------|---------------------------|--------------|---------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 (LC) | MAX UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX LC1 (LC) | MAX UNBRACED LENGTH |
| FR-TO |                           |                           |              |                     | FR-TO |                           |              |                     |
| E-B   | -257 / 0                  | 0.0                       | 0.0          | 0.03 (1)            | 7.81  | 0 / 0                     | 0.00 (1)     |                     |
| A-B   | 0 / 38                    | -91.8                     | -91.8        | 0.12 (1)            | 10.00 |                           |              |                     |
| B-C   | -30 / 0                   | -91.8                     | -91.8        | 0.12 (1)            | 6.25  |                           |              |                     |
| E-D   | 0 / 0                     | -18.5                     | -18.5        | 0.01 (4)            | 10.00 |                           |              |                     |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.01/1.00 (D-E:4),  
WB=0.00/1.00 (B-D:1), SSI=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90 )  
JSI METAL= 0.07 (B) (INPUT = 0.95 )



STRUCTURAL COMPONENT ONLY  
DWG # TR23091978

CITY OF RICHMOND HILL  
BUILDING DIVISION

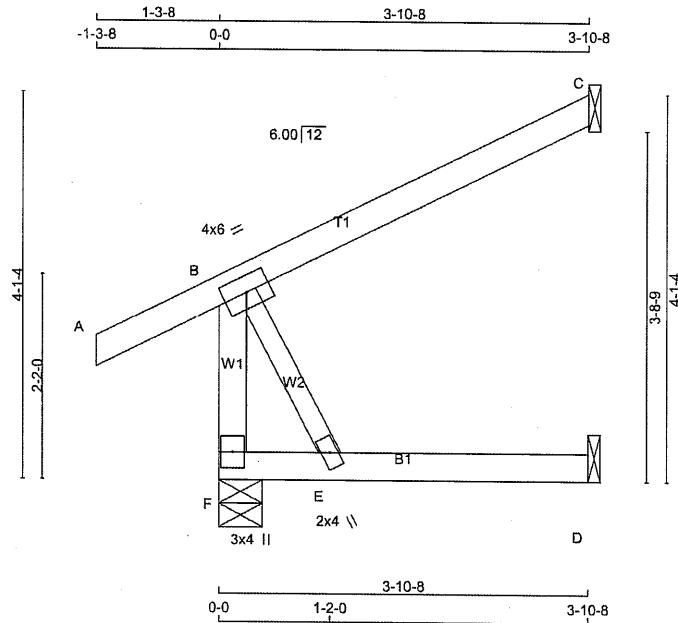
05/01/2024

RECEIVED  
Per: joshua.nabua

|                           |                          |                      |                 |                                      |             |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>435001</b> | TRUSS NAME<br><b>J11</b> | QUANTITY<br><b>3</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

ID:VGd0KP o8QNdlmTk0QGqnTyf?Y7-z kr1747eHwn6keDfr o6NIADCEJVe7KEQCIYaya8B  
Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:27 2023 Page 1



TOTAL WEIGHT = 3 X 15 = 44 lb

#### LUMBER

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMW-t  | MT20   | 4.0 | 6.0 |   |   |
| E  | BMW+w  | MT20   | 2.0 | 4.0 |   |   |
| F  | 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 |           |           |
| F  | 338                     | 0    | 338                             | 0    | 5-8       | 1-8       |
| C  | 178                     | 0    | 178                             | 0    | 1-8       | 1-8       |
| D  | 36                      | 0    | 40                              | 0    | 1-8       | 1-8       |

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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX/MIN. COMPONENT REACTIONS |       |       |           |        |
|----|-----------|------------------------------|-------|-------|-----------|--------|
|    |           | COMBINED                     | SNOW  | LIVE  | PERM.LIVE | WIND   |
| F  | 237       | 169 / 0                      | 0 / 0 | 0 / 0 | 0 / 0     | 68 / 0 |
| C  | 122       | 99 / 0                       | 0 / 0 | 0 / 0 | 0 / 0     | 23 / 0 |
| D  | 29        | 0 / 0                        | 0 / 0 | 0 / 0 | 0 / 0     | 29 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| MEMB. | CHORDS                    |                | VERT. LOAD | LC1      | MAX   | MAX. | MEMB. | WEBS                      |                        |
|-------|---------------------------|----------------|------------|----------|-------|------|-------|---------------------------|------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED (PLF) |            |          |       |      |       | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
| FR-TO |                           | FROM TO        |            |          |       |      | FR-TO |                           |                        |
| F-B   | -302 / 0                  | 0.0            | 0.0        | 0.04 (1) | 7.81  | B-E  | 0 / 0 | 0.00 (1)                  |                        |
| A-B   | 0 / 28                    | -91.8          | -91.8      | 0.14 (5) | 10.00 |      |       |                           |                        |
| B-C   | 0 / 0                     | -91.8          | -91.8      | 0.23 (1) | 10.00 |      |       |                           |                        |
| F-E   | 0 / 0                     | -18.5          | -18.5      | 0.07 (4) | 10.00 |      |       |                           |                        |
| E-D   | 0 / 0                     | -18.5          | -18.5      | 0.08 (4) | 10.00 |      |       |                           |                        |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

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

CSI: TC=0.23/1.00 (B-C:1), BC=0.08/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SSI=0.12/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (B) (INPUT = 0.90)  
JSI METAL= 0.04 (B) (INPUT = 0.95)



STRUCTURAL COMPONENT ONLY  
DWG # TR23091988

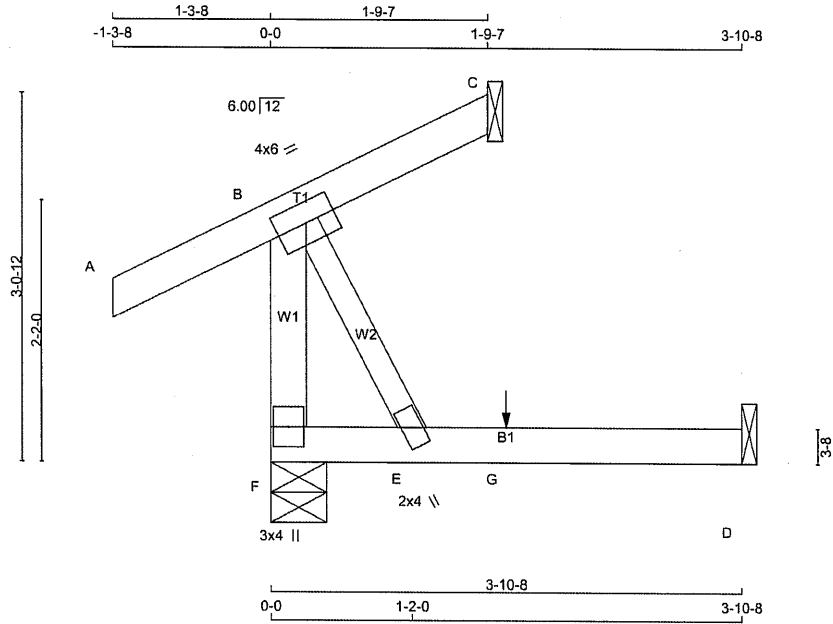
CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

RECEIVED  
Per: joshua.nabua

|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>435001</b>       | TRUSS NAME<br><b>J12</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:28 2023 Page 1  
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TOTAL WEIGHT = 2 X 12 = 24 lb [M]

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

| PLATES (table is in inches) |        |        |     |     |     |
|-----------------------------|--------|--------|-----|-----|-----|
| JT                          | TYPE   | PLATES | W   | LEN | Y X |
| B                           | TMW/t  | MT20   | 4.0 | 6.0 |     |
| E                           | BMW+w  | MT20   | 2.0 | 4.0 |     |
| F                           | 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       | VERT | GROSS    | REACTION | GROSS            | REACTION | BRG   | IN-SX | BRG   | IN-SX |
| F        | 290  | 0        | 290      | 0                | 0        | 5-8   | 1-8   | 1-8   | 1-8   |
| C        | 35   | 0        | 35       | 0                | -38      | 1-8   | 1-8   | 1-8   | 1-8   |
| D        | 36   | 0        | 40       | 0                | 0        | 1-8   | 1-8   | 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

| UNFACTORED REACTIONS |           | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |  |
|----------------------|-----------|-------------------------------|-------|-----------|-------|--------|-------|--|
| JT                   | 1ST LCASE | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |  |
| F                    | 203       | 142 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 62 / 0 | 0 / 0 |  |
| C                    | 24        | 19 / -26                      | 0 / 0 | 0 / 0     | 0 / 0 | 5 / 0  | 0 / 0 |  |
| D                    | 29        | 0 / 0                         | 0 / 0 | 0 / 0     | 0 / 0 | 29 / 0 | 0 / 0 |  |

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

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

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

**LOADING**  
TOTAL LOAD CASES: (5)

| CHORDS |             | FACTORED         |                | WEBS  |             | FACTORED      |  |
|--------|-------------|------------------|----------------|-------|-------------|---------------|--|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | MAX. CSI (LC)  | MEMB. | FORCE (LBS) | MAX. CSI (LC) |  |
| FR-TO  |             | FROM TO          |                | FR-TO |             |               |  |
| F-B    | -254 / 0    | 0.0              | 0.0 0.03 (1)   | B-E   | 0 / 0       | 0.00 (1)      |  |
| A-B    | 0 / 28      | -91.8            | -91.8 0.14 (5) |       |             |               |  |
| B-C    | -21 / 0     | -91.8            | -91.8 0.13 (5) |       |             |               |  |
| F-E    | 0 / 0       | -18.5            | -18.5 0.07 (4) |       |             |               |  |
| E-G    | 0 / 0       | -18.5            | -18.5 0.08 (4) |       |             |               |  |
| G-D    | 0 / 0       | -18.5            | -18.5 0.08 (4) |       |             |               |  |

| SPECIFIED CONCENTRATED LOADS (LBS) |        | FACE |      | TYPE |       | HEEL |       | CONN. |       |
|------------------------------------|--------|------|------|------|-------|------|-------|-------|-------|
| JT                                 | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL  | CONN. |
| G                                  | 1-11.4 | 1    | 1    | ---  | FRONT | VERT | TOTAL | ---   | C1    |

**CONNECTION REQUIREMENTS**

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

**DESIGN CRITERIA**

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

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

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

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

ALLOWABLE DEFL. (LL) = L/360 (0.19")  
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=0.14/1.00 (A-B-5), BC=0.08/1.00 (D-E-4), WB=0.00/1.00 (B-E-1), SSI=0.10/1.00 (A-B-5)

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

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.13 (B) (INPUT = 0.90)  
JSI METAL= 0.04 (B) (INPUT = 0.95)



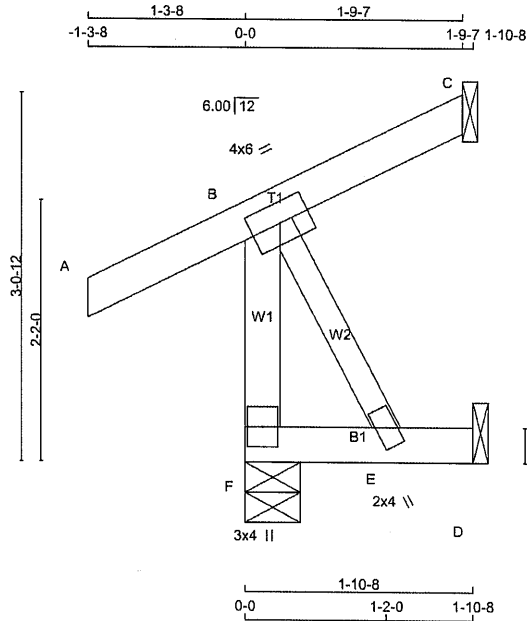
STRUCTURAL COMPONENT ONLY  
DWG # TR23091989

CITY OF RICHMOND HILL  
BUILDING DIVISION  
**05/01/2024**  
**RECEIVED**  
Per: joshua.nabua

|                           |                          |                      |                 |                                      |             |          |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|
| JOB NAME<br><b>435001</b> | TRUSS NAME<br><b>J13</b> | QUANTITY<br><b>2</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | TRUSS DESC. | DRWG NO. |
|---------------------------|--------------------------|----------------------|-----------------|--------------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

ID:VGd0KP o8QNdlmTk0QGqnTyi?Y7-vNscSp5NAvAUL2ocmG1GBoyYV?xlzYcdhksbSya8Av



Scale = 1:18.3

TOTAL WEIGHT = 2 X 10 = 20 lb

#### LUMBER

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

#### PLATES (table is in inches)

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMW-t  | MT20   | 4.0 | 6.0 |   |   |
| E  | BMW+w  | MT20   | 2.0 | 4.0 |   |   |
| F  | BMW1+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 |           |           |
| F  | 271                     | 0    | 271                             | 0    | 5-8       | 1-8       |
| C  | 35                      | 0    | 35                              | 0    | 1-8       | 1-8       |
| D  | 17                      | 0    | 19                              | 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

#### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
|----|-----------|-------------------------------|-------|-----------|-------|--------|-------|
|    | COMBINED  | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| F  | 189       | 142 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 47 / 0 | 0 / 0 |
| C  | 24        | 19 / -26                      | 0 / 0 | 0 / 0     | 0 / 0 | 5 / 0  | 0 / 0 |
| D  | 14        | 0 / 0                         | 0 / 0 | 0 / 0     | 0 / 0 | 14 / 0 | 0 / 0 |

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

#### BRACING

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

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

#### LOADING

TOTAL LOAD CASES: (5)

| C H O R D S |               |                  |       |             | W E B S |               |       |              |  |
|-------------|---------------|------------------|-------|-------------|---------|---------------|-------|--------------|--|
| MEMB.       | MAX. FACTORED | FACTORED         |       |             | MEMB.   | MAX. FACTORED | MAX   |              |  |
|             | FORCE (LBS)   | VERT. LOAD (PLF) | LC1   | MAX. UNBRAC |         | FORCE (LBS)   |       | MAX CSI (LC) |  |
| FR-TO       |               | FROM             | TO    | CSI (LC)    | LENGTH  | FR-TO         |       |              |  |
| F-B         | -254 / 0      | 0.0              | 0.0   | 0.03 (1)    | 7.81    | B-E           | 0 / 0 | 0.00 (1)     |  |
| A-B         | 0 / 28        | -91.8            | -91.8 | 0.12 (1)    | 10.00   |               |       |              |  |
| B-C         | -21 / 0       | -91.8            | -91.8 | 0.11 (1)    | 6.25    |               |       |              |  |
|             |               |                  |       |             |         |               |       |              |  |
| F-E         | 0 / 0         | -18.5            | -18.5 | 0.02 (4)    | 10.00   |               |       |              |  |
| E-D         | 0 / 0         | -18.5            | -18.5 | 0.02 (4)    | 10.00   |               |       |              |  |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

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

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

##### THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, NBC-2019AE
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

##### DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
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=0.02/1.00 (E-F:4),  
WB=0.00/1.00 (B-E:1), SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

##### NAIL VALUES

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    | (PLI)     |
| MAX MIN | MAX MIN   | 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= 0.13 (B) (INPUT = 0.90 )  
JSI METAL= 0.04 (B) (INPUT = 0.95 )



STRUCTURAL COMPONENT ONLY  
DWG # TR23091990

CITY OF RICHMOND HILL  
BUILDING DIVISION

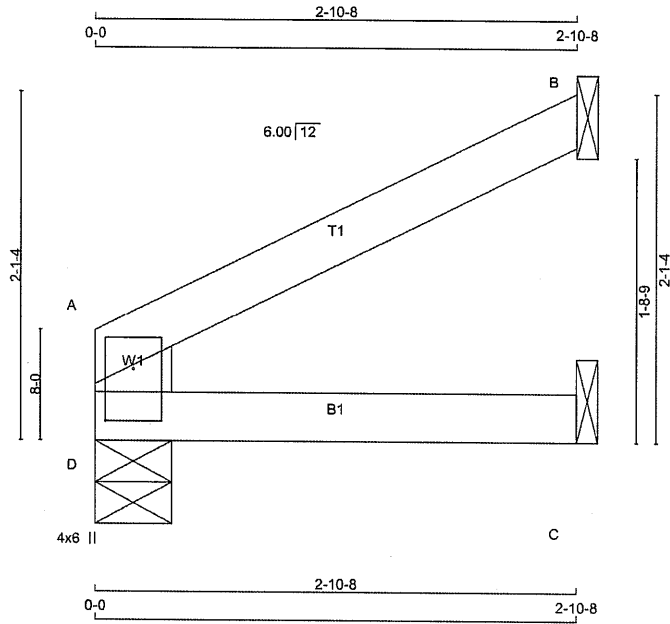
05/01/2024

RECEIVED  
Per: joshua.nabua



|                                 |                          |                      |                 |                                      |          |
|---------------------------------|--------------------------|----------------------|-----------------|--------------------------------------|----------|
| JOB NAME<br><b>435001</b>       | TRUSS NAME<br><b>J14</b> | QUANTITY<br><b>6</b> | PLY<br><b>1</b> | JOB DESC.<br><b>GREEN PARK HOMES</b> | DRWG NO. |
| Tamarack Roof Truss, Burlington |                          |                      |                 | TRUSS DESC.                          |          |

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:30 2023 Page 1  
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TOTAL WEIGHT = 6 X 8 = 46 lb  
[M][F]

| LUMBER            |      |        |      | DESCR. |     |
|-------------------|------|--------|------|--------|-----|
| N. L. G. A. RULES | SIZE | LUMBER |      | SPF    | SPF |
| CHORDS            |      |        |      |        |     |
| D - A             | 2x6  | 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                           |          |        |     |     |      |      |
| D                           |          |        |     |     |      |      |
| D                           | TMBMV1+p | MT20   | 4.0 | 6.0 | 3.75 | 2.00 |

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   | BRG |
| D        | 158            | 0        | 0    | 158              | 0    | 0     | 0      | 5-8   | 1-8 |
| B        | 118            | 0        | 0    | 118              | 0    | 0     | 0      | 1-8   | 1-8 |
| C        | 40             | 0        | 0    | 40               | 0    | 0     | 0      | 1-8   | 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         | 112      | 74 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 39 / 0 | 0 / 0 |
| B         | 82       | 64 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 17 / 0 | 0 / 0 |
| C         | 30       | 9 / 0                         | 0 / 0 | 0 / 0     | 0 / 0 | 21 / 0 | 0 / 0 |

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

**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         |       | FACTORED |          | WEBS  |             | FACTORED |          |
|--------|-------------|------------------|-------|----------|----------|-------|-------------|----------|----------|
| MEMB.  | FORCE (LBS) | VERT. LOAD (PLF) | LC1   | MAX      | CSI (LC) | MEMB. | FORCE (LBS) | MAX      | CSI (LC) |
| FR-TO  |             | FROM             | TO    |          |          | FR-TO |             |          |          |
| D-A    | -146 / 0    | 0.0              | 0.0   | 0.02 (1) | 7.81     |       |             |          |          |
| A-B    | -6 / 0      | -91.8            | -91.8 | 0.09 (1) | 10.00    |       |             |          |          |
| D-C    | 0 / 0       | -18.5            | -18.5 | 0.06 (1) | 10.00    |       |             |          |          |

**DESIGN CRITERIA**

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

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

CSI: TC=0.09/1.00 (A-B:1), BC=0.06/1.00 (C-D:1), WB=0.00/1.00 (n/a:0), SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.05 (D) (INPUT = 0.90)  
JSI METAL= 0.03 (D) (INPUT = 0.95)



STRUCTURAL COMPONENT ONLY  
DWG # TR23091991

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

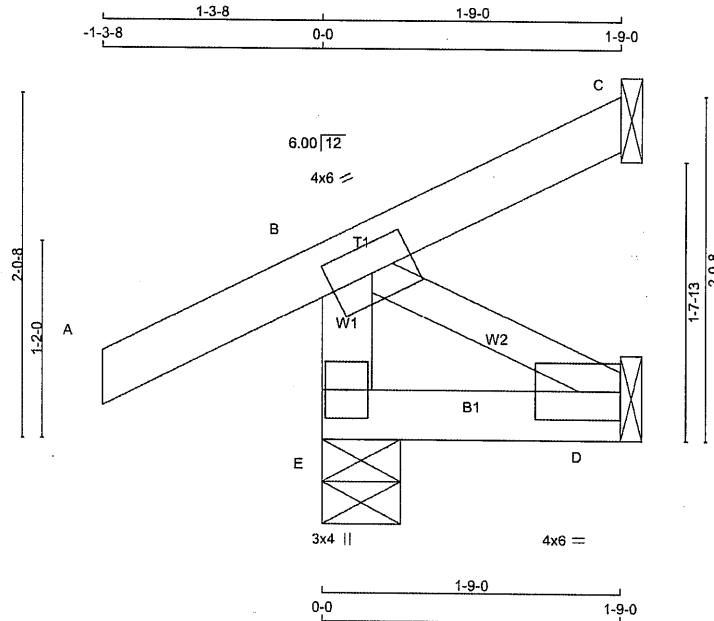
RECEIVED  
Per: joshua.nabua



|                    |                   |               |          |                               |             |          |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|
| JOB NAME<br>435001 | TRUSS NAME<br>J15 | QUANTITY<br>2 | PLY<br>1 | JOB DESC.<br>GREEN PARK HOMES | TRUSS DESC. | DRWG NO. |
|--------------------|-------------------|---------------|----------|-------------------------------|-------------|----------|

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 Mittek Industries, Inc. Mon Sep 25 09:59:31 2023 Page 1  
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Scale = 1:13.1

TOTAL WEIGHT = 2 X 8 = 16 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    |        |
| ALL WEBS              | 2x3               | DRY    | No.2 | SPF    |        |
| DRY: SEASONED LUMBER. |                   |        |      |        |        |

| PLATES (table is in inches) | JT     | TYPE | PLATES | W   | LEN | Y | X    |
|-----------------------------|--------|------|--------|-----|-----|---|------|
| B                           | TMVW-t | MT20 | 4.0    | 6.0 |     |   |      |
| D                           | BMV1-t | MT20 | 4.0    | 6.0 |     |   | Edge |
| E                           | 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 GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |        | INPUT BRG |       | REQRD BRG |       |
|----------|------|-------------------------|------|---------------------------------|--------|-----------|-------|-----------|-------|
| JT       | VERT | HORZ                    | DOWN | HORZ                            | UPLIFT | IN-SX     | IN-SX | IN-SX     | IN-SX |
| E        | 268  | 0                       | 268  | 0                               | 0      | 5-8       | 1-8   | 1-8       | 1-8   |
| C        | 32   | 0                       | 32   | 0                               | -39    | 1-8       | 1-8   | 1-8       | 1-8   |
| D        | 15   | 0                       | 17   | 0                               | 0      | 1-8       | 1-8   | 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

#### UNFACTORED REACTIONS

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
|-----------|----------|-------------------------------|-------|-----------|-------|--------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| E         | 186      | 141 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 45 / 0 | 0 / 0 |
| C         | 22       | 18 / -27                      | 0 / 0 | 0 / 0     | 0 / 0 | 4 / 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) | LC1   | MAX. CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO  |                           | FROM                      | TO    |               |                      | FR-TO |                           |               |
| E-B    | -253 / 0                  | 0.0                       | 0.0   | 0.03 (1)      | 7.81                 | B-D   | 0 / 0                     | 0.00 (1)      |
| A-B    | 0 / 28                    | -91.8                     | -91.8 | 0.12 (1)      | 10.00                |       |                           |               |
| B-C    | -22 / 0                   | -91.8                     | -91.8 | 0.11 (1)      | 6.25                 |       |                           |               |
| E-D    | 0 / 0                     | -18.5                     | -18.5 | 0.01 (4)      | 10.00                |       |                           |               |

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:  
- PART 9 OF BCBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014

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

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

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

CSI: TC=0.12/1.00 (A-B:1), BC=0.01/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (B) (INPUT = 0.90 )  
JSI METAL= 0.04 (B) (INPUT = 0.95 )

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua

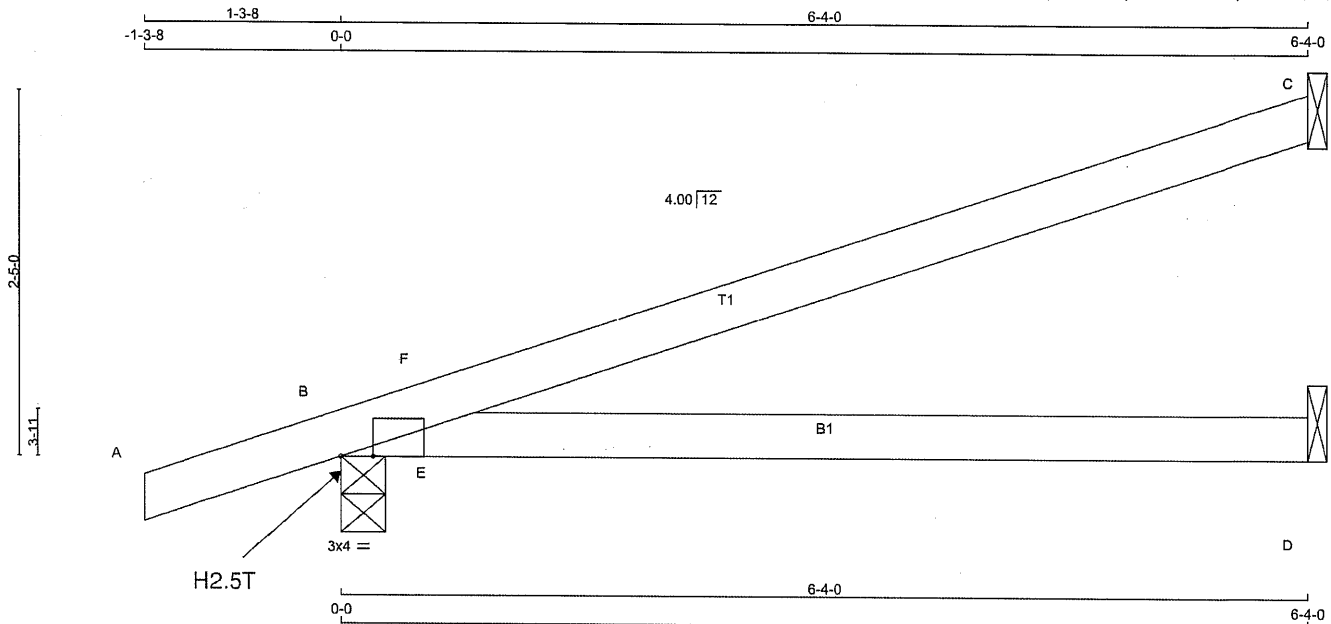


STRUCTURAL COMPONENT ONLY  
DWG # TR23091992

|          |            |          |     |             |                  |          |
|----------|------------|----------|-----|-------------|------------------|----------|
| JOB NAME | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREEN PARK HOMES | DRWG NO. |
| 435001   | J16        | 5        | 1   | TRUSS DESC. |                  |          |

Tamarack Roof Truss, Burlington

Version 8.630 S Aug 30 2023 MiTek Industries, Inc. Mon Sep 25 09:59:32 2023 Page 1  
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TOTAL WEIGHT = 5 X 16 = 82 lb

#### LUMBER

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

DRY: SEASONED LUMBER.

#### PLATES (table is in inches)

| JT TYPE | PLATES | W    | LEN | Y   | X    |
|---------|--------|------|-----|-----|------|
| B       | TMB1-I | MT20 | 3.0 | 4.0 | 2.50 |

#### 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      | UPLIFT    |
| C  | 254                     | 0                               | 254       | 0         |
| B  | 472                     | 0                               | 472       | 0         |
| D  | 95                      | 0                               | 95        | 0         |

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

##### UNFACTORED REACTIONS

| JT | 1ST LCASE | MAX / MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|--------------------------------|-------|-------|------------|-------|---------|-------|
|    | COMBINED  |                                |       |       |            |       |         |       |
| C  | 176       | 137 / 0                        | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 39 / 0  | 0 / 0 |
| B  | 331       | 230 / 0                        | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 101 / 0 | 0 / 0 |
| D  | 71        | 25 / 0                         | 0 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 46 / 0  | 0 / 0 |

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

##### 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                    |                           |         |          | WEBS                      |                           |           |          |
|-------|---------------------------|---------------------------|---------|----------|---------------------------|---------------------------|-----------|----------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1 | MAX LC2  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX LC1   | MAX LC2  |
| FR-TO |                           | FROM TO                   |         |          |                           | FR-TO                     |           |          |
| A-B   | 0 / 19                    | -91.8                     | -91.8   | 0.11 (1) | 10.00                     | E-F                       | -354 / 14 | 0.00 (1) |
| B-F   | -20 / 19                  | -91.8                     | -91.8   | 0.06 (4) | 6.25                      |                           |           |          |
| F-C   | -2 / 2                    | -91.8                     | -91.8   | 0.47 (1) | 10.00                     |                           |           |          |
| B-E   | 0 / 0                     | -18.5                     | -18.5   | 0.33 (1) | 10.00                     |                           |           |          |
| E-D   | 0 / 0                     | -18.5                     | -18.5   | 0.33 (1) | 10.00                     |                           |           |          |

#### DESIGN CRITERIA

##### SPECIFIED LOADS:

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.21")  
CALCULATED VERT. DEFL.(LL) = L/ 800 (0.09")  
ALLOWABLE DEFL.(TL)= L/360 (0.21")  
CALCULATED VERT. DEFL.(TL) = L/ 391 (0.19")

CSI: TC=0.47/1.00 (C-F:1), BC=0.33/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.29/1.00 (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= 0.31 (B) (INPUT = 0.90 )  
JSI METAL= 0.08 (B) (INPUT = 0.95 )

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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Per: joshua.nabua



STRUCTURAL COMPONENT ONLY  
DWG # TR23091993

# 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

CITY OF RICHMOND HILL  
BUILDING DIVISION

05/01/2024

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### 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     |
| <b>MAXIMUM NUMBER OF TOE NAILS</b> |             |               |             |               |          |
| 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        |

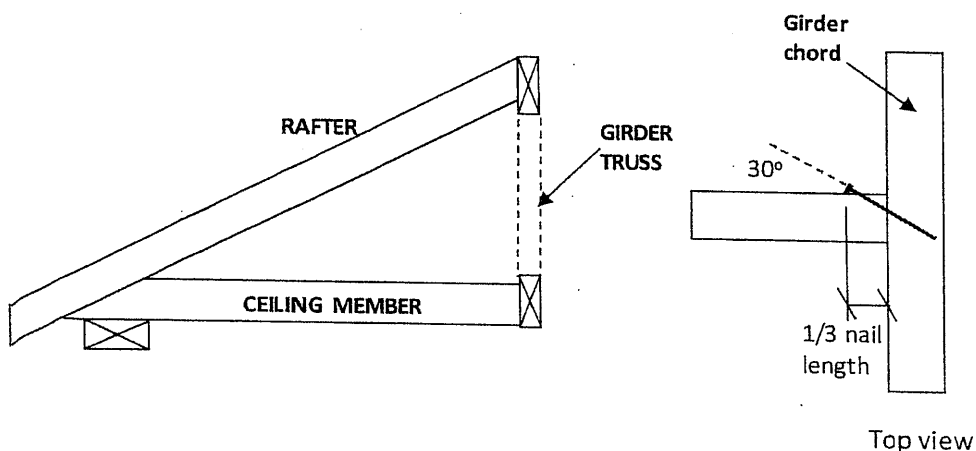


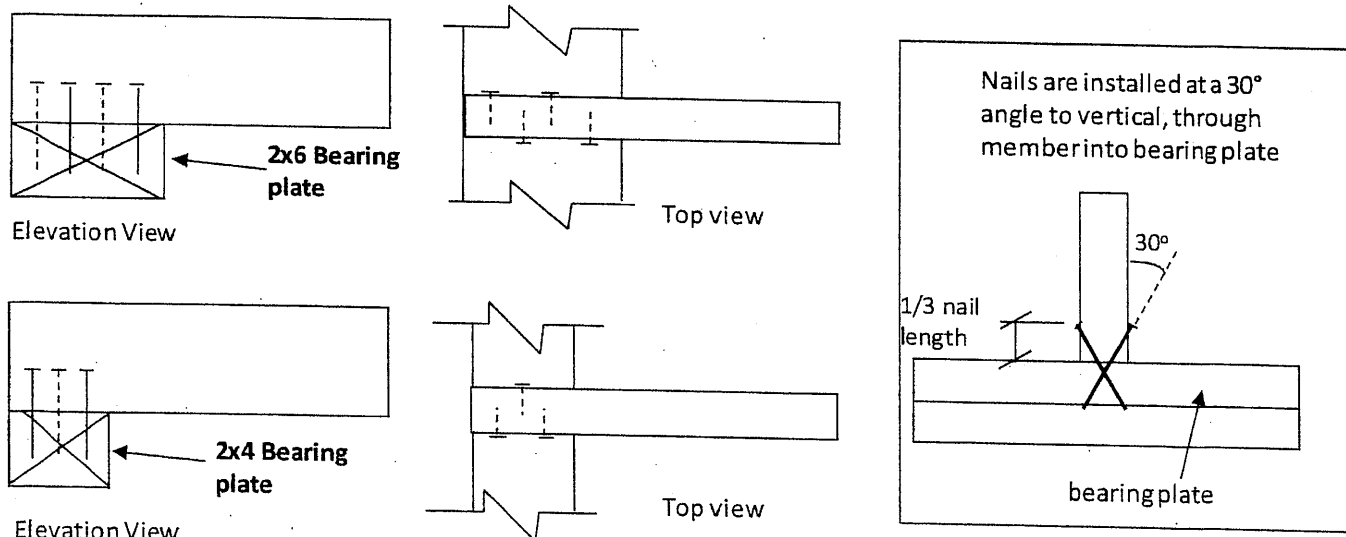
Figure 1: Toe-Nailing Rafter / Ceiling Member to Girder Truss

PEO  
Certificate No. 10889485



### 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° 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.

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Certificate No. 10889485





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

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

## Standard and Double-Shear Joist Hangers



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

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

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

**Material:** See table on pp. 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:

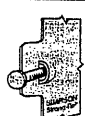
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on pp. 105–107.



Double-Shear Nailing Top View

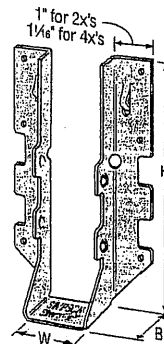
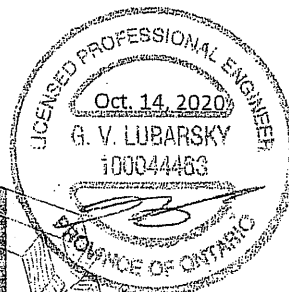
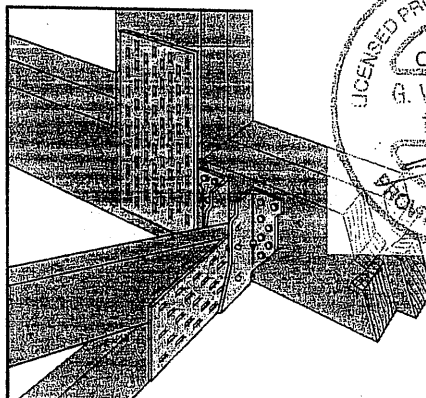


Double-Shear Nailing Side View; Do not bend tab

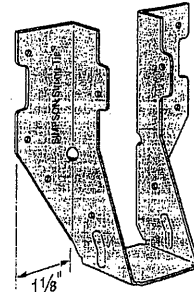


Dome Double-Shear Nailing Side View (available on some models)

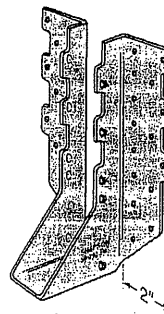
**Typical HUS26 Installation with Reduced Heel Height**  
(Truss Designer to provide fastener quantity for connecting multiple members together)



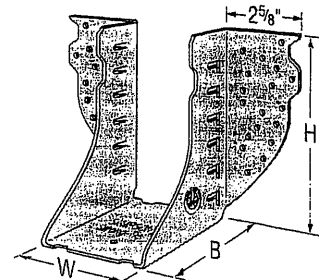
**LUS28**



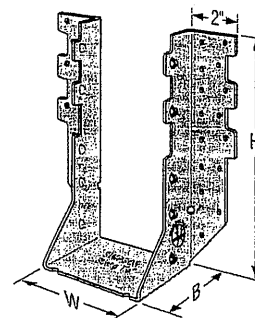
**LU26L**



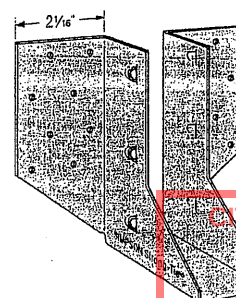
**HUS210**  
(HUS26, HUS28, and HHUS similar)



**HGUS28-2**



**HHUS210-2**



**LJS26DS**

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# TECHNICAL BULLETIN

## 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:

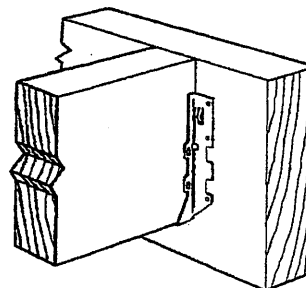
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

### Installation:

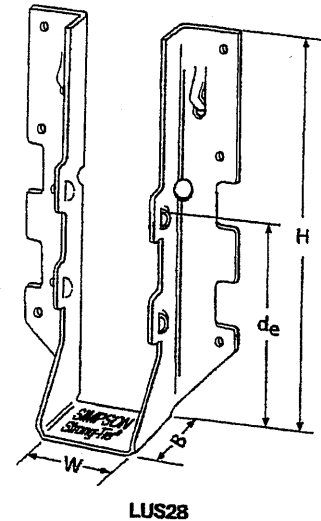
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire, 10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

### Options:

- These hangers cannot be modified



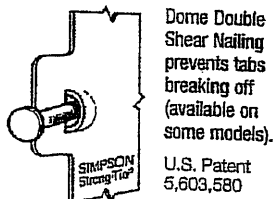
Typical LUS Installation



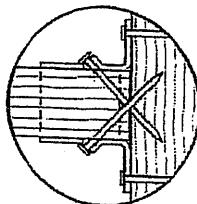
LUS28

| 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>p</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>p</sub> =1.00) |
| LUS24     | 18  | 1 1/16           | 3 1/8   | 1 3/4 | 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 3/8   | 1 3/4 | 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 7/8   | 2     | 3 3/4                       | (4) 16d   | (4) 16d | 1720                             | 2595                             | 1545                             | 1920                             |
| LUS28     | 18  | 1 1/16           | 6 5/8   | 1 3/4 | 3 3/4                       | (6) 10d   | (6) 10d | 1420                             | 2520                             | 1290                             | 1790                             |
| LUS28-2   | 18  | 3 1/8            | 7       | 2     | 4                           | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2575                             |
| LUS28-3   | 18  | 4 3/8            | 6 1/4   | 2     | 3 3/4                       | (6) 16d   | (4) 16d | 1720                             | 3325                             | 1545                             | 2375                             |
| LUS210    | 18  | 1 1/16           | 7 13/16 | 1 3/4 | 3 7/8                       | (8) 10d   | (4) 10d | 1420                             | 2785                             | 1290                             | 2210                             |
| LUS210-2  | 18  | 3 1/8            | 9       | 2     | 6                           | (8) 16d   | (6) 16d | 2580                             | 4500                             | 2320                             | 3195                             |
| LUS210-3  | 18  | 4 3/8            | 8 3/8   | 2     | 5 1/4                       | (8) 16d   | (6) 16d | 2580                             | 3345                             | 2320                             | 2375                             |

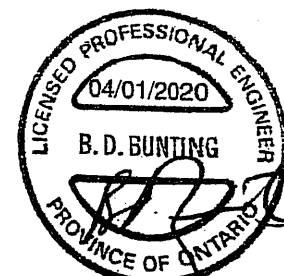
1. d<sub>e</sub> is the distance from the seat of the hanger to the highest joist nail.



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).

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T-SPECUS20 3/20 exp. 6/22

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# TECHNICAL BULLETIN

## HUS/LJS – Double Shear Joist Hangers

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

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

**Material:** See table

**Finish:** G90 galvanized

### Design:

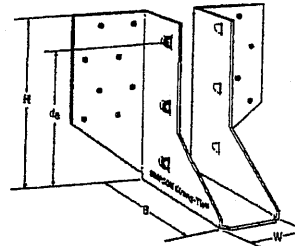
- Factored resistances are in accordance with CSA O86 -14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

### Installation:

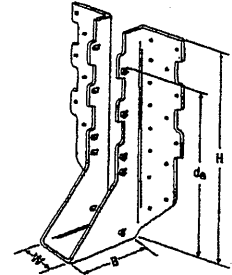
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

### Options:

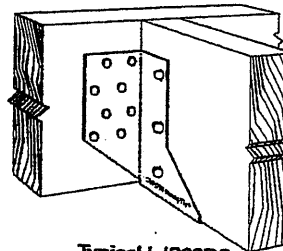
- See current catalogue for options



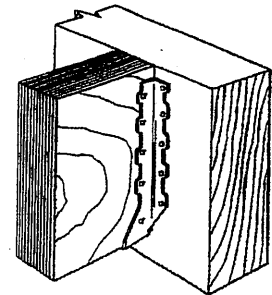
LJS26DS



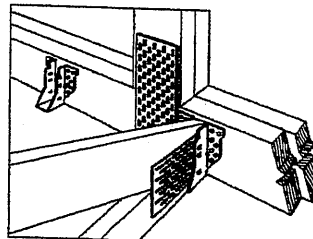
HUS210  
(HUS26, HUS28, similar)



Typical LJS26DS  
Installation



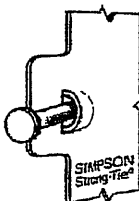
Typical HUS  
Installation



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

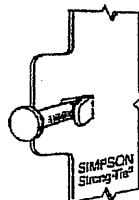
| Model No.  | Ga. | Dimensions (in.) |       |       |                | Fasteners |          | Factored Resistance (lb.)        |                                  |                                  |                                  |
|------------|-----|------------------|-------|-------|----------------|-----------|----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|            |     | W                | H     | B     | d <sub>g</sub> | Face      | Joist    | D.Fir-L                          |                                  | S-P-F                            |                                  |
|            |     |                  |       |       |                |           |          | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>u</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>u</sub> =1.00) |
| LJS26DS    | 18  | 1 1/16           | 5     | 3 1/2 | 4 1/4          | (16) 16d  | (6) 16d  | 2055                             | 4265                             | 1460                             | 4115                             |
| HUS26      | 16  | 1 1/8            | 5 1/4 | 3     | 3 15/16        | (14) 16d  | (6) 16d  | 2705                             | 4940                             | 2065                             | 3875                             |
| HUS28      | 16  | 1 1/8            | 7 3/4 | 3     | 6 3/4          | (22) 16d  | (8) 16d  | 3605                             | 5365                             | 2675                             | 4345                             |
| HUS210     | 16  | 1 1/8            | 9 3/4 | 3     | 7 3/4          | (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>g</sub> is the distance from the seat of the hanger to the highest joist nail.

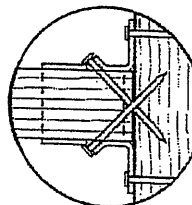


Dome Double  
Shear Nailing  
prevents tabs  
breaking off  
(available on  
some models).

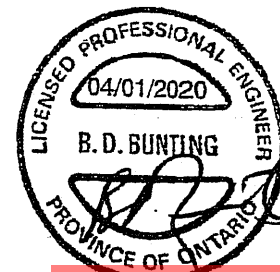
U.S. Patent  
5,803,580



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



Double  
Shear  
Nailing  
Top View.



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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.

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T-SPECHUS20 3/20 exp. 6/22

# TECHNICAL BULLETIN

## HGUS – Double Shear Joist Hangers

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

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

**Material:** 12 gauge

**Finish:** G90 galvanized

### Design:

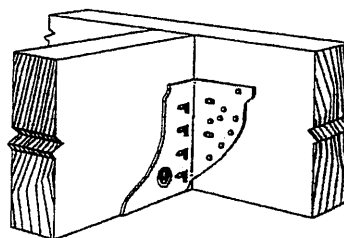
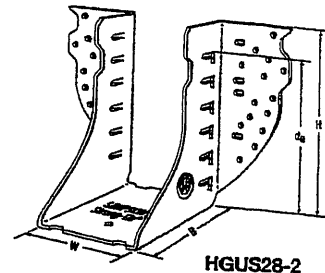
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these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

### Installation:

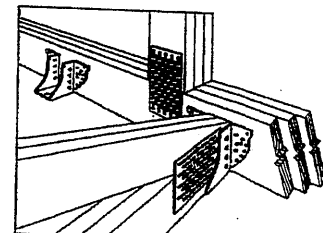
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3½" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

### Options:

- See current catalogue for options



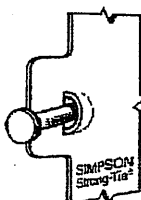
Typical HGUS Installation



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

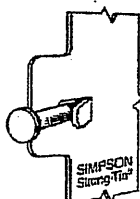
| Model No. | Ga. | Dimensions (in.) |     |   |                             |          | Fasteners |  | Factored Resistance (lb.)        |                                  |                                  |                                  |
|-----------|-----|------------------|-----|---|-----------------------------|----------|-----------|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |     | W                | H   | B | d <sub>s</sub> <sup>1</sup> | Face     | Joist     |  | D.Fir-L                          |                                  | S-P-F                            |                                  |
|           |     |                  |     |   |                             |          |           |  | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) | Uplift<br>(K <sub>u</sub> =1.15) | Normal<br>(K <sub>n</sub> =1.00) |
| HGUS26    | 12  | 1½               | 5¾  | 5 | 4½                          | (20) 16d | (8) 16d   |  | 2685                             | 6625                             | 2685                             | 5700                             |
| HGUS26-2  | 12  | 3½               | 5½  | 4 | 4½                          | (20) 16d | (8) 16d   |  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-3  | 12  | 4½               | 5½  | 4 | 4½                          | (20) 16d | (8) 16d   |  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS26-4  | 12  | 6½               | 5½  | 4 | 4½                          | (20) 16d | (8) 16d   |  | 4385                             | 8950                             | 3100                             | 6355                             |
| HGUS28    | 12  | 1½               | 7½  | 5 | 6½                          | (36) 16d | (12) 16d  |  | 3310                             | 7675                             | 3100                             | 6900                             |
| HGUS28-2  | 12  | 3½               | 7½  | 4 | 6½                          | (36) 16d | (12) 16d  |  | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-3  | 12  | 4½               | 7½  | 4 | 6½                          | (36) 16d | (12) 16d  |  | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS28-4  | 12  | 6½               | 7½  | 4 | 6½                          | (36) 16d | (12) 16d  |  | 6070                             | 12980                            | 4310                             | 9215                             |
| HGUS210   | 12  | 1½               | 9½  | 5 | 7½                          | (46) 16d | (16) 16d  |  | 3535                             | 11070                            | 2510                             | 8090                             |
| HGUS210-2 | 12  | 3½               | 9½  | 4 | 8½                          | (46) 16d | (16) 16d  |  | 6840                             | 14015                            | 4855                             | 10270                            |
| HGUS210-3 | 12  | 4½               | 9½  | 4 | 8½                          | (46) 16d | (16) 16d  |  | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS210-4 | 12  | 6½               | 9½  | 4 | 8½                          | (46) 16d | (16) 16d  |  | 6840                             | 14645                            | 4855                             | 10400                            |
| HGUS212-4 | 12  | 6½               | 10½ | 4 | 10½                         | (56) 16d | (20) 16d  |  | 7640                             | 14995                            | 5425                             | 10645                            |
| HGUS214-4 | 12  | 6½               | 12½ | 4 | 11½                         | (66) 16d | (22) 16d  |  | 10130                            | 16400                            | 7195                             | 11645                            |

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

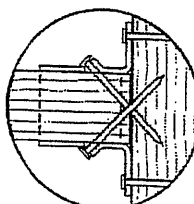


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

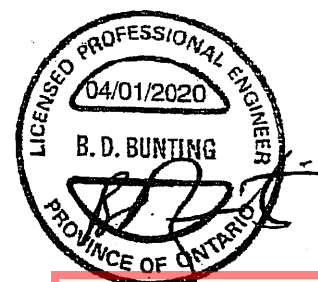
U.S. Patent  
5,603,580



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



Double Shear Nailing Top View.



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LIMIT  
STATES  
DESIGN

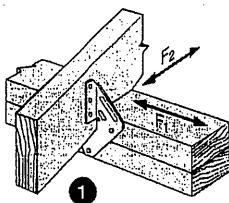
This technical bulletin is effective until June 30, 2022, and reflects information available as of April 1, 2020. This information is updated periodically and should not be relied upon after June 30, 2022. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

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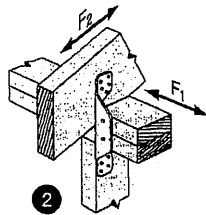
T-SPECHGUS20 3/20 exp. 6/22

# H/TSP

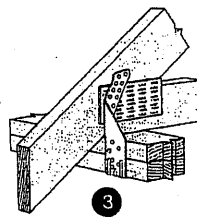
## Seismic and Hurricane Ties (cont.)



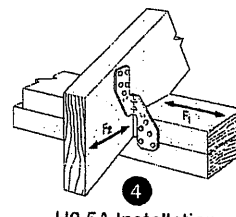
**1** H1 Installation



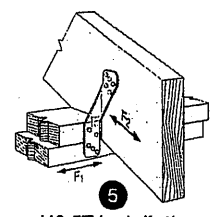
**2** H2A Installation



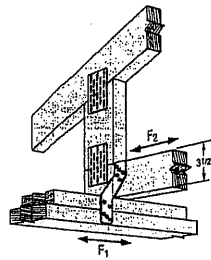
**3** TSP Installation



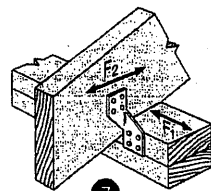
**4** H2.5A Installation  
(Nails into both top plates)



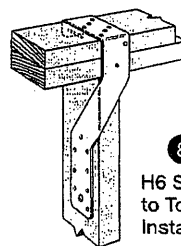
**5** H2.5T Installation  
(Nails into both top plates)



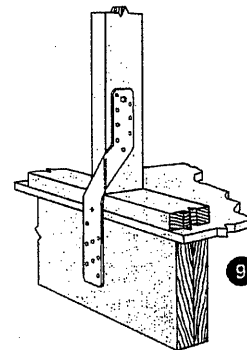
**6** H2.5T Installation



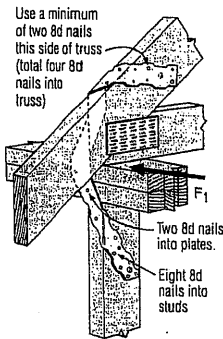
**7** H3 Installation  
(Nails into upper top plate)



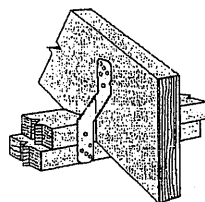
**8** H6 Stud to Top Plate Installation



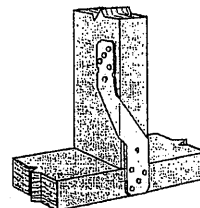
**9** H6 Stud to Band Joist Installation



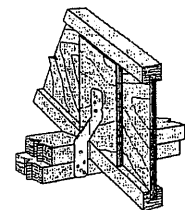
**10** H7Z Installation



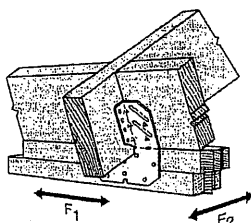
**11** H8 Attaching Rafter to Double Top Plates



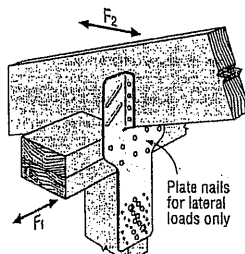
**12** H8 attaching Stud to Sill  
((4) 8d into plate, (5) 8d into stud)



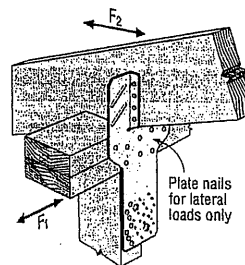
**13** H8 attaching I-Joist to Double Top Plates



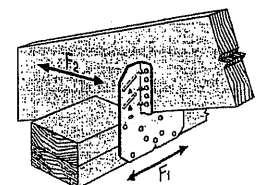
**14** H10A Field-Bent Installation



**15** H10S Installation

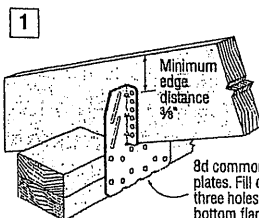


**16** H10S Installation with Stud Offset

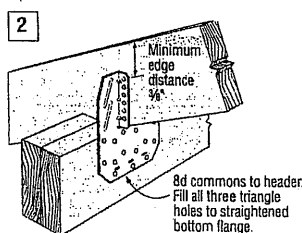


**17** H10A Installation

H10A optional positive angle nailing connects shear blocking to rafter. Use 8d common nails. Slot allows maximum field-bending up to a pitch of 6/12, use 75% of the table uplift value; bend one time only.

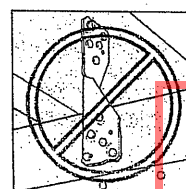


**18** H14 Installation to Double Top Plates



**19** H14 Installation to Double 2x Header

### Avoid a Misinstallation



Do not make new holes or overdrive nails.

05/01/2024

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Straps and Ties